



API Reference

# Amazon DocumentDB (with MongoDB compatibility)



# Amazon DocumentDB (with MongoDB compatibility): API Reference

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# Welcome

## Amazon DocumentDB (with MongoDB compatibility)

Amazon DocumentDB is a fast, reliable, and fully managed database service. Amazon DocumentDB makes it easy to set up, operate, and scale MongoDB-compatible databases in the cloud. With Amazon DocumentDB, you can run the same application code and use the same drivers and tools that you use with MongoDB.

## Amazon DocumentDB Elastic Clusters

Amazon DocumentDB elastic-clusters support workloads with millions of reads/writes per second and petabytes of storage capacity. Amazon DocumentDB elastic clusters also simplify how developers interact with Amazon DocumentDB elastic-clusters by eliminating the need to choose, manage or upgrade instances.

Amazon DocumentDB elastic-clusters were created to:

- provide a solution for customers looking for a database that provides virtually limitless scale with rich query capabilities and MongoDB API compatibility.
- give customers higher connection limits, and to reduce downtime from patching.
- continue investing in a cloud-native, elastic, and class leading architecture for JSON workloads.

# Actions

The following actions are supported by Amazon DocumentDB (with MongoDB compatibility):

- [AddSourceIdentifierToSubscription](#)
- [AddTagsToResource](#)
- [ApplyPendingMaintenanceAction](#)
- [CopyDBClusterParameterGroup](#)
- [CopyDBClusterSnapshot](#)
- [CreateDBCluster](#)
- [CreateDBClusterParameterGroup](#)
- [CreateDBClusterSnapshot](#)
- [CreateDBInstance](#)
- [CreateDBSubnetGroup](#)
- [CreateEventSubscription](#)
- [CreateGlobalCluster](#)
- [DeleteDBCluster](#)
- [DeleteDBClusterParameterGroup](#)
- [DeleteDBClusterSnapshot](#)
- [DeleteDBInstance](#)
- [DeleteDBSubnetGroup](#)
- [DeleteEventSubscription](#)
- [DeleteGlobalCluster](#)
- [DescribeCertificates](#)
- [DescribeDBClusterParameterGroups](#)
- [DescribeDBClusterParameters](#)
- [DescribeDBClusters](#)
- [DescribeDBClusterSnapshotAttributes](#)
- [DescribeDBClusterSnapshots](#)
- [DescribeDBEngineVersions](#)
- [DescribeDBInstances](#)

- [DescribeDBSubnetGroups](#)
- [DescribeEngineDefaultClusterParameters](#)
- [DescribeEventCategories](#)
- [DescribeEvents](#)
- [DescribeEventSubscriptions](#)
- [DescribeGlobalClusters](#)
- [DescribeOrderableDBInstanceOptions](#)
- [DescribePendingMaintenanceActions](#)
- [FailoverDBCluster](#)
- [FailoverGlobalCluster](#)
- [ListTagsForResource](#)
- [ModifyDBCluster](#)
- [ModifyDBClusterParameterGroup](#)
- [ModifyDBClusterSnapshotAttribute](#)
- [ModifyDBInstance](#)
- [ModifyDBSubnetGroup](#)
- [ModifyEventSubscription](#)
- [ModifyGlobalCluster](#)
- [RebootDBInstance](#)
- [RemoveFromGlobalCluster](#)
- [RemoveSourceIdentifierFromSubscription](#)
- [RemoveTagsForResource](#)
- [ResetDBClusterParameterGroup](#)
- [RestoreDBClusterFromSnapshot](#)
- [RestoreDBClusterToPointInTime](#)
- [StartDBCluster](#)
- [StopDBCluster](#)
- [SwitchoverGlobalCluster](#)

The following actions are supported by Amazon DocumentDB Elastic Clusters:

- [ApplyPendingMaintenanceAction](#)
- [CopyClusterSnapshot](#)
- [CreateCluster](#)
- [CreateClusterSnapshot](#)
- [DeleteCluster](#)
- [DeleteClusterSnapshot](#)
- [GetCluster](#)
- [GetClusterSnapshot](#)
- [GetPendingMaintenanceAction](#)
- [ListClusters](#)
- [ListClusterSnapshots](#)
- [ListPendingMaintenanceActions](#)
- [ListTagsForResource](#)
- [RestoreClusterFromSnapshot](#)
- [StartCluster](#)
- [StopCluster](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateCluster](#)

## Amazon DocumentDB (with MongoDB compatibility)

The following actions are supported by Amazon DocumentDB (with MongoDB compatibility):

- [AddSourceIdentifierToSubscription](#)
- [AddTagsToResource](#)
- [ApplyPendingMaintenanceAction](#)
- [CopyDBClusterParameterGroup](#)
- [CopyDBClusterSnapshot](#)
- [CreateDBCluster](#)
- [CreateDBClusterParameterGroup](#)

- [CreateDBClusterSnapshot](#)
- [CreateDBInstance](#)
- [CreateDBSubnetGroup](#)
- [CreateEventSubscription](#)
- [CreateGlobalCluster](#)
- [DeleteDBCluster](#)
- [DeleteDBClusterParameterGroup](#)
- [DeleteDBClusterSnapshot](#)
- [DeleteDBInstance](#)
- [DeleteDBSubnetGroup](#)
- [DeleteEventSubscription](#)
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- [ListTagsForResource](#)
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- [RestoreDBClusterToPointInTime](#)
- [StartDBCluster](#)
- [StopDBCluster](#)
- [SwitchoverGlobalCluster](#)

## AddSourceIdentifierToSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Adds a source identifier to an existing event notification subscription.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### SourceIdentifier

The identifier of the event source to be added:

- If the source type is an instance, a `DBInstanceIdentifier` must be provided.
- If the source type is a security group, a `DBSecurityGroupName` must be provided.
- If the source type is a parameter group, a `DBParameterGroupName` must be provided.
- If the source type is a snapshot, a `DBSnapshotIdentifier` must be provided.

Type: String

Required: Yes

#### SubscriptionName

The name of the Amazon DocumentDB event notification subscription that you want to add a source identifier to.

Type: String

Required: Yes

### Response Elements

The following element is returned by the service.

#### EventSubscription

Detailed information about an event to which you have subscribed.

Type: [EventSubscription](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### SourceNotFound

The requested source could not be found.

HTTP Status Code: 404

### SubscriptionNotFound

The subscription name does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## AddTagsToResource

Service: Amazon DocumentDB (with MongoDB compatibility)

Adds metadata tags to an Amazon DocumentDB resource. You can use these tags with cost allocation reporting to track costs that are associated with Amazon DocumentDB resources or in a Condition statement in an AWS Identity and Access Management (IAM) policy for Amazon DocumentDB.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### ResourceName

The Amazon DocumentDB resource that the tags are added to. This value is an Amazon Resource Name .

Type: String

Required: Yes

#### Tags.Tag.N

The tags to be assigned to the Amazon DocumentDB resource.

Type: Array of [Tag](#) objects

Required: Yes

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### DBClusterNotFoundFault

DBClusterIdentifier doesn't refer to an existing cluster.

HTTP Status Code: 404

#### DBInstanceNotFound

DBInstanceIdentifier doesn't refer to an existing instance.

HTTP Status Code: 404

## **DBSnapshotNotFound**

`DBSnapshotIdentifier` doesn't refer to an existing snapshot.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
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- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ApplyPendingMaintenanceAction

Service: Amazon DocumentDB (with MongoDB compatibility)

Applies a pending maintenance action to a resource (for example, to an Amazon DocumentDB instance).

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### ApplyAction

The pending maintenance action to apply to this resource.

Valid values: `system-update`, `db-upgrade`

Type: String

Required: Yes

#### OptInType

A value that specifies the type of opt-in request or undoes an opt-in request. An opt-in request of type `immediate` can't be undone.

Valid values:

- `immediate` - Apply the maintenance action immediately.
- `next-maintenance` - Apply the maintenance action during the next maintenance window for the resource.
- `undo-opt-in` - Cancel any existing `next-maintenance` opt-in requests.

Type: String

Required: Yes

#### ResourceIdentifier

The Amazon Resource Name (ARN) of the resource that the pending maintenance action applies to.

Type: String

Required: Yes

## Response Elements

The following element is returned by the service.

### ResourcePendingMaintenanceActions

Represents the output of [ApplyPendingMaintenanceAction](#).

Type: [ResourcePendingMaintenanceActions](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### InvalidDBInstanceState

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### ResourceNotFoundFault

The specified resource ID was not found.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CopyDBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Copies the specified cluster parameter group.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### SourceDBClusterParameterGroupIdentifier

The identifier or Amazon Resource Name (ARN) for the source cluster parameter group.

Constraints:

- Must specify a valid cluster parameter group.
- If the source cluster parameter group is in the same AWS Region as the copy, specify a valid parameter group identifier; for example, `my-db-cluster-param-group`, or a valid ARN.
- If the source parameter group is in a different AWS Region than the copy, specify a valid cluster parameter group ARN; for example, `arn:aws:rds:us-east-1:123456789012:sample-cluster:sample-parameter-group`.

Type: String

Required: Yes

#### TargetDBClusterParameterGroupDescription

A description for the copied cluster parameter group.

Type: String

Required: Yes

#### TargetDBClusterParameterGroupIdentifier

The identifier for the copied cluster parameter group.

Constraints:

- Cannot be null, empty, or blank.
- Must contain from 1 to 255 letters, numbers, or hyphens.
- The first character must be a letter.

- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `my-cluster-param-group1`

Type: String

Required: Yes

### **Tags.Tag.N**

The tags that are to be assigned to the parameter group.

Type: Array of [Tag](#) objects

Required: No

## **Response Elements**

The following element is returned by the service.

### **DBClusterParameterGroup**

Detailed information about a cluster parameter group.

Type: [DBClusterParameterGroup](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBParameterGroupAlreadyExists**

A parameter group with the same name already exists.

HTTP Status Code: 400

### **DBParameterGroupNotFound**

`DBParameterGroupName` doesn't refer to an existing parameter group.

HTTP Status Code: 404

### **DBParameterGroupQuotaExceeded**

This request would cause you to exceed the allowed number of parameter groups.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CopyDBClusterSnapshot

Service: Amazon DocumentDB (with MongoDB compatibility)

Copies a snapshot of a cluster.

To copy a cluster snapshot from a shared manual cluster snapshot, `SourceDBClusterSnapshotIdentifier` must be the Amazon Resource Name (ARN) of the shared cluster snapshot. You can only copy a shared DB cluster snapshot, whether encrypted or not, in the same AWS Region.

To cancel the copy operation after it is in progress, delete the target cluster snapshot identified by `TargetDBClusterSnapshotIdentifier` while that cluster snapshot is in the *copying* status.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### SourceDBClusterSnapshotIdentifier

The identifier of the cluster snapshot to copy. This parameter is not case sensitive.

Constraints:

- Must specify a valid cluster snapshot in the *available* state.
- If the source cluster snapshot is in the same AWS Region as the copy, specify a valid snapshot identifier.
- If the source cluster snapshot is in a different AWS Region or owned by another AWS account, specify the snapshot ARN.

Example: `my-cluster-snapshot1`

Type: String

Required: Yes

### TargetDBClusterSnapshotIdentifier

The identifier of the new cluster snapshot to create from the source cluster snapshot. This parameter is not case sensitive.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.

- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `my-cluster-snapshot2`

Type: String

Required: Yes

### CopyTags

Set to `true` to copy all tags from the source cluster snapshot to the target cluster snapshot, and otherwise `false`. The default is `false`.

Type: Boolean

Required: No

### KmsKeyId

The AWS KMS key ID for an encrypted cluster snapshot. The AWS KMS key ID is the Amazon Resource Name (ARN), AWS KMS key identifier, or the AWS KMS key alias for the AWS KMS encryption key.

If you copy an encrypted cluster snapshot from your AWS account, you can specify a value for `KmsKeyId` to encrypt the copy with a new AWS KMS encryption key. If you don't specify a value for `KmsKeyId`, then the copy of the cluster snapshot is encrypted with the same AWS KMS key as the source cluster snapshot.

If you copy an encrypted cluster snapshot that is shared from another AWS account, then you must specify a value for `KmsKeyId`.

To copy an encrypted cluster snapshot to another AWS Region, set `KmsKeyId` to the AWS KMS key ID that you want to use to encrypt the copy of the cluster snapshot in the destination Region. AWS KMS encryption keys are specific to the AWS Region that they are created in, and you can't use encryption keys from one AWS Region in another AWS Region.

If you copy an unencrypted cluster snapshot and specify a value for the `KmsKeyId` parameter, an error is returned.

Type: String

Required: No

## PreSignedUrl

The URL that contains a Signature Version 4 signed request for the `CopyDBClusterSnapshot` API action in the AWS Region that contains the source cluster snapshot to copy. You must use the `PreSignedUrl` parameter when copying a cluster snapshot from another AWS Region.

If you are using an AWS SDK tool or the AWS CLI, you can specify `SourceRegion` (or `--source-region` for the AWS CLI) instead of specifying `PreSignedUrl` manually. Specifying `SourceRegion` autogenerates a pre-signed URL that is a valid request for the operation that can be executed in the source AWS Region.

The presigned URL must be a valid request for the `CopyDBClusterSnapshot` API action that can be executed in the source AWS Region that contains the cluster snapshot to be copied. The presigned URL request must contain the following parameter values:

- `SourceRegion` - The ID of the region that contains the snapshot to be copied.
- `SourceDBClusterSnapshotIdentifier` - The identifier for the the encrypted cluster snapshot to be copied. This identifier must be in the Amazon Resource Name (ARN) format for the source AWS Region. For example, if you are copying an encrypted cluster snapshot from the `us-east-1` AWS Region, then your `SourceDBClusterSnapshotIdentifier` looks something like the following: `arn:aws:rds:us-east-1:12345678012:sample-cluster:sample-cluster-snapshot`.
- `TargetDBClusterSnapshotIdentifier` - The identifier for the new cluster snapshot to be created. This parameter isn't case sensitive.

Type: String

Required: No

## Tags.Tag.N

The tags to be assigned to the cluster snapshot.

Type: Array of [Tag](#) objects

Required: No

## Response Elements

The following element is returned by the service.

## DBClusterSnapshot

Detailed information about a cluster snapshot.

Type: [DBClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterSnapshotAlreadyExistsFault

You already have a cluster snapshot with the given identifier.

HTTP Status Code: 400

### DBClusterSnapshotNotFoundFault

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

### InvalidDBClusterSnapshotStateFault

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### KMSKeyNotAccessibleFault

An error occurred when accessing an AWS KMS key.

HTTP Status Code: 400

### SnapshotQuotaExceeded

The request would cause you to exceed the allowed number of snapshots.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a new Amazon DocumentDB cluster.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The cluster identifier. This parameter is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `my-cluster`

Type: String

Required: Yes

#### Engine

The name of the database engine to be used for this cluster.

Valid values: `docdb`

Type: String

Required: Yes

#### AvailabilityZones.AvailabilityZone.N

A list of Amazon EC2 Availability Zones that instances in the cluster can be created in.

Type: Array of strings

Required: No

## **BackupRetentionPeriod**

The number of days for which automated backups are retained. You must specify a minimum value of 1.

Default: 1

Constraints:

- Must be a value from 1 to 35.

Type: Integer

Required: No

## **DBClusterParameterGroupName**

The name of the cluster parameter group to associate with this cluster.

Type: String

Required: No

## **DBSubnetGroupName**

A subnet group to associate with this cluster.

Constraints: Must match the name of an existing DBSubnetGroup. Must not be default.

Example: mySubnetgroup

Type: String

Required: No

## **DeletionProtection**

Specifies whether this cluster can be deleted. If DeletionProtection is enabled, the cluster cannot be deleted unless it is modified and DeletionProtection is disabled. DeletionProtection protects clusters from being accidentally deleted.

Type: Boolean

Required: No

## **EnableCloudwatchLogsExports.member.N**

A list of log types that need to be enabled for exporting to Amazon CloudWatch Logs. You can enable audit logs or profiler logs. For more information, see [Auditing Amazon DocumentDB Events](#) and [Profiling Amazon DocumentDB Operations](#).

Type: Array of strings

Required: No

## **EngineVersion**

The version number of the database engine to use. The `--engine-version` will default to the latest major engine version. For production workloads, we recommend explicitly declaring this parameter with the intended major engine version.

Type: String

Required: No

## **GlobalClusterIdentifier**

The cluster identifier of the new global cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: No

## **KmsKeyId**

The AWS KMS key identifier for an encrypted cluster.

The AWS KMS key identifier is the Amazon Resource Name (ARN) for the AWS KMS encryption key. If you are creating a cluster using the same AWS account that owns the AWS KMS encryption key that is used to encrypt the new cluster, you can use the AWS KMS key alias instead of the ARN for the AWS KMS encryption key.

If an encryption key is not specified in `KmsKeyId`:

- If the `StorageEncrypted` parameter is `true`, Amazon DocumentDB uses your default encryption key.

AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS Region.

Type: String

Required: No

### **ManageMasterUserPassword**

Specifies whether to manage the master user password with Amazon Web Services Secrets Manager.

Constraint: You can't manage the master user password with Amazon Web Services Secrets Manager if `MasterUserPassword` is specified.

Type: Boolean

Required: No

### **MasterUsername**

The name of the master user for the cluster.

Constraints:

- Must be from 1 to 63 letters or numbers.
- The first character must be a letter.
- Cannot be a reserved word for the chosen database engine.

Type: String

Required: No

### **MasterUserPassword**

The password for the master database user. This password can contain any printable ASCII character except forward slash (/), double quote ("), or the "at" symbol (@).

Constraints: Must contain from 8 to 100 characters.

Type: String

Required: No

## MasterUserSecretKmsKeyId

The Amazon Web Services KMS key identifier to encrypt a secret that is automatically generated and managed in Amazon Web Services Secrets Manager. This setting is valid only if the master user password is managed by Amazon DocumentDB in Amazon Web Services Secrets Manager for the DB cluster.

The Amazon Web Services KMS key identifier is the key ARN, key ID, alias ARN, or alias name for the KMS key. To use a KMS key in a different Amazon Web Services account, specify the key ARN or alias ARN.

If you don't specify `MasterUserSecretKmsKeyId`, then the `aws/secretsmanager` KMS key is used to encrypt the secret. If the secret is in a different Amazon Web Services account, then you can't use the `aws/secretsmanager` KMS key to encrypt the secret, and you must use a customer managed KMS key.

There is a default KMS key for your Amazon Web Services account. Your Amazon Web Services account has a different default KMS key for each Amazon Web Services Region.

Type: String

Required: No

## NetworkType

The network type of the cluster.

The network type is determined by the `DBSubnetGroup` specified for the cluster. A `DBSubnetGroup` can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

For more information, see [DocumentDB clusters in a VPC](#) in the Amazon DocumentDB Developer Guide.

Valid Values: IPV4 | DUAL

Type: String

Required: No

## Port

The port number on which the instances in the cluster accept connections.

Type: Integer

Required: No

### **PreferredBackupWindow**

The daily time range during which automated backups are created if automated backups are enabled using the `BackupRetentionPeriod` parameter.

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region.

Constraints:

- Must be in the format `hh24:mi-hh24:mi`.
- Must be in Universal Coordinated Time (UTC).
- Must not conflict with the preferred maintenance window.
- Must be at least 30 minutes.

Type: String

Required: No

### **PreferredMaintenanceWindow**

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Format: `ddd:hh24:mi-ddd:hh24:mi`

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Constraints: Minimum 30-minute window.

Type: String

Required: No

### **PreSignedUrl**

Not currently supported.

Type: String

Required: No

### ServerlessV2ScalingConfiguration

Contains the scaling configuration of an Amazon DocumentDB Serverless cluster.

Type: [ServerlessV2ScalingConfiguration](#) object

Required: No

### StorageEncrypted

Specifies whether the cluster is encrypted.

Type: Boolean

Required: No

### StorageType

The storage type to associate with the DB cluster.

For information on storage types for Amazon DocumentDB clusters, see Cluster storage configurations in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - standard | iopt1

Default value is standard

#### Note

When you create an Amazon DocumentDB cluster with the storage type set to `iopt1`, the storage type is returned in the response. The storage type isn't returned when you set it to `standard`.

Type: String

Required: No

### Tags.Tag.N

The tags to be assigned to the cluster.

Type: Array of [Tag](#) objects

Required: No

### **VpcSecurityGroupIds.VpcSecurityGroupId.N**

A list of EC2 VPC security groups to associate with this cluster.

Type: Array of strings

Required: No

## **Response Elements**

The following element is returned by the service.

### **DBCluster**

Detailed information about a cluster.

Type: [DBCluster](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBClusterAlreadyExistsFault**

You already have a cluster with the given identifier.

HTTP Status Code: 400

### **DBClusterNotFoundFault**

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### **DBClusterParameterGroupNotFound**

`DBClusterParameterGroupName` doesn't refer to an existing cluster parameter group.

HTTP Status Code: 404

### **DBClusterQuotaExceededFault**

The cluster can't be created because you have reached the maximum allowed quota of clusters.

HTTP Status Code: 403

### **DBInstanceNotFound**

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

### **DBSubnetGroupDoesNotCoverEnoughAZs**

Subnets in the subnet group should cover at least two Availability Zones unless there is only one Availability Zone.

HTTP Status Code: 400

### **DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

### **GlobalClusterNotFoundFault**

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

### **InsufficientStorageClusterCapacity**

There is not enough storage available for the current action. You might be able to resolve this error by updating your subnet group to use different Availability Zones that have more storage available.

HTTP Status Code: 400

### **InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

### **InvalidDBInstanceState**

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### **InvalidDBSubnetGroupStateFault**

The subnet group can't be deleted because it's in use.

HTTP Status Code: 400

### **InvalidGlobalClusterStateFault**

The requested operation can't be performed while the cluster is in this state.

HTTP Status Code: 400

### **InvalidSubnet**

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

### **InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

### **KMSKeyNotAccessibleFault**

An error occurred when accessing an AWS KMS key.

HTTP Status Code: 400

### **NetworkTypeNotSupported**

The network type is not supported by either DBSubnetGroup or the DB engine version.

HTTP Status Code: 400

### **StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateDBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a new cluster parameter group.

Parameters in a cluster parameter group apply to all of the instances in a cluster.

A cluster parameter group is initially created with the default parameters for the database engine used by instances in the cluster. In Amazon DocumentDB, you cannot make modifications directly to the `default.docdb3.6` cluster parameter group. If your Amazon DocumentDB cluster is using the default cluster parameter group and you want to modify a value in it, you must first [create a new parameter group](#) or [copy an existing parameter group](#), modify it, and then apply the modified parameter group to your cluster. For the new cluster parameter group and associated settings to take effect, you must then reboot the instances in the cluster without failover. For more information, see [Modifying Amazon DocumentDB Cluster Parameter Groups](#).

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterParameterGroupName

The name of the cluster parameter group.

Constraints:

- Must not match the name of an existing `DBClusterParameterGroup`.

#### Note

This value is stored as a lowercase string.

Type: String

Required: Yes

#### DBParameterGroupFamily

The cluster parameter group family name.

Type: String

Required: Yes

## Description

The description for the cluster parameter group.

Type: String

Required: Yes

## Tags.Tag.N

The tags to be assigned to the cluster parameter group.

Type: Array of [Tag](#) objects

Required: No

## Response Elements

The following element is returned by the service.

### DBClusterParameterGroup

Detailed information about a cluster parameter group.

Type: [DBClusterParameterGroup](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBParameterGroupAlreadyExists

A parameter group with the same name already exists.

HTTP Status Code: 400

### DBParameterGroupQuotaExceeded

This request would cause you to exceed the allowed number of parameter groups.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateDBClusterSnapshot

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a snapshot of a cluster.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBClusterIdentifier

The identifier of the cluster to create a snapshot for. This parameter is not case sensitive.

Constraints:

- Must match the identifier of an existing `DBCluster`.

Example: `my-cluster`

Type: String

Required: Yes

### DBClusterSnapshotIdentifier

The identifier of the cluster snapshot. This parameter is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `my-cluster-snapshot1`

Type: String

Required: Yes

### Tags.Tag.N

The tags to be assigned to the cluster snapshot.

Type: Array of [Tag](#) objects

Required: No

## Response Elements

The following element is returned by the service.

### **DBClusterSnapshot**

Detailed information about a cluster snapshot.

Type: [DBClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBClusterNotFoundFault**

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### **DBClusterSnapshotAlreadyExistsFault**

You already have a cluster snapshot with the given identifier.

HTTP Status Code: 400

### **InvalidDBClusterSnapshotStateFault**

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

### **InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

### **SnapshotQuotaExceeded**

The request would cause you to exceed the allowed number of snapshots.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateDBInstance

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a new instance.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The identifier of the cluster that the instance will belong to.

Type: String

Required: Yes

#### DBInstanceClass

The compute and memory capacity of the instance; for example, `db.r5.large`.

Type: String

Required: Yes

#### DBInstanceIdentifier

The instance identifier. This parameter is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `mydbinstance`

Type: String

Required: Yes

#### Engine

The name of the database engine to be used for this instance.

Valid value: docdb

Type: String

Required: Yes

### **AutoMinorVersionUpgrade**

This parameter does not apply to Amazon DocumentDB. Amazon DocumentDB does not perform minor version upgrades regardless of the value set.

Default: false

Type: Boolean

Required: No

### **AvailabilityZone**

The Amazon EC2 Availability Zone that the instance is created in.

Default: A random, system-chosen Availability Zone in the endpoint's AWS Region.

Example: us-east-1d

Type: String

Required: No

### **CACertificateIdentifier**

The CA certificate identifier to use for the DB instance's server certificate.

For more information, see [Updating Your Amazon DocumentDB TLS Certificates](#) and [Encrypting Data in Transit](#) in the *Amazon DocumentDB Developer Guide*.

Type: String

Required: No

### **CopyTagsToSnapshot**

A value that indicates whether to copy tags from the DB instance to snapshots of the DB instance. By default, tags are not copied.

Type: Boolean

Required: No

### **EnablePerformanceInsights**

A value that indicates whether to enable Performance Insights for the DB Instance. For more information, see [Using Amazon Performance Insights](#).

Type: Boolean

Required: No

### **PerformanceInsightsKMSKeyId**

The AWS KMS key identifier for encryption of Performance Insights data.

The AWS KMS key identifier is the key ARN, key ID, alias ARN, or alias name for the KMS key.

If you do not specify a value for PerformanceInsightsKMSKeyId, then Amazon DocumentDB uses your default KMS key. There is a default KMS key for your Amazon Web Services account. Your Amazon Web Services account has a different default KMS key for each Amazon Web Services region.

Type: String

Required: No

### **PreferredMaintenanceWindow**

The time range each week during which system maintenance can occur, in Universal Coordinated Time (UTC).

Format: ddd:hh24:mi-ddd:hh24:mi

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Constraints: Minimum 30-minute window.

Type: String

Required: No

## PromotionTier

A value that specifies the order in which an Amazon DocumentDB replica is promoted to the primary instance after a failure of the existing primary instance.

Default: 1

Valid values: 0-15

Type: Integer

Required: No

## Tags.Tag.N

The tags to be assigned to the instance. You can assign up to 10 tags to an instance.

Type: Array of [Tag](#) objects

Required: No

## Response Elements

The following element is returned by the service.

### DBInstance

Detailed information about an instance.

Type: [DBInstance](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AuthorizationNotFound

The specified CIDR IP or Amazon EC2 security group isn't authorized for the specified security group.

Amazon DocumentDB also might not be authorized to perform necessary actions on your behalf using IAM.

HTTP Status Code: 404

### **DBClusterNotFoundFault**

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### **DBInstanceAlreadyExists**

You already have a instance with the given identifier.

HTTP Status Code: 400

### **DBParameterGroupNotFound**

`DBParameterGroupName` doesn't refer to an existing parameter group.

HTTP Status Code: 404

### **DBSecurityGroupNotFound**

`DBSecurityGroupName` doesn't refer to an existing security group.

HTTP Status Code: 404

### **DBSubnetGroupDoesNotCoverEnoughAZs**

Subnets in the subnet group should cover at least two Availability Zones unless there is only one Availability Zone.

HTTP Status Code: 400

### **DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

### **InstanceQuotaExceeded**

The request would cause you to exceed the allowed number of instances.

HTTP Status Code: 400

### **InsufficientDBInstanceCapacity**

The specified instance class isn't available in the specified Availability Zone.

HTTP Status Code: 400

### **InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

### **InvalidSubnet**

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

### **InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

### **KMSKeyNotAccessibleFault**

An error occurred when accessing an AWS KMS key.

HTTP Status Code: 400

### **StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

### **StorageTypeNotSupported**

Storage of the specified StorageType can't be associated with the DB instance.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateDBSubnetGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a new subnet group. subnet groups must contain at least one subnet in at least two Availability Zones in the AWS Region.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBSubnetGroupDescription

The description for the subnet group.

Type: String

Required: Yes

#### DBSubnetGroupName

The name for the subnet group. This value is stored as a lowercase string.

Constraints: Must contain no more than 255 letters, numbers, periods, underscores, spaces, or hyphens. Must not be default.

Example: mySubnetgroup

Type: String

Required: Yes

#### SubnetIds.SubnetIdentifier.N

The Amazon EC2 subnet IDs for the subnet group.

Type: Array of strings

Required: Yes

#### Tags.Tag.N

The tags to be assigned to the subnet group.

Type: Array of [Tag](#) objects

Required: No

## Response Elements

The following element is returned by the service.

### DBSubnetGroup

Detailed information about a subnet group.

Type: [DBSubnetGroup](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBSubnetGroupAlreadyExists

DBSubnetGroupName is already being used by an existing subnet group.

HTTP Status Code: 400

### DBSubnetGroupDoesNotCoverEnoughAZs

Subnets in the subnet group should cover at least two Availability Zones unless there is only one Availability Zone.

HTTP Status Code: 400

### DBSubnetGroupQuotaExceeded

The request would cause you to exceed the allowed number of subnet groups.

HTTP Status Code: 400

### DBSubnetQuotaExceededFault

The request would cause you to exceed the allowed number of subnets in a subnet group.

HTTP Status Code: 400

### InvalidSubnet

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateEventSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates an Amazon DocumentDB event notification subscription. This action requires a topic Amazon Resource Name (ARN) created by using the Amazon DocumentDB console, the Amazon SNS console, or the Amazon SNS API. To obtain an ARN with Amazon SNS, you must create a topic in Amazon SNS and subscribe to the topic. The ARN is displayed in the Amazon SNS console.

You can specify the type of source (`SourceType`) that you want to be notified of. You can also provide a list of Amazon DocumentDB sources (`SourceIds`) that trigger the events, and you can provide a list of event categories (`EventCategories`) for events that you want to be notified of. For example, you can specify `SourceType = db-instance`, `SourceIds = mydbinstance1, mydbinstance2` and `EventCategories = Availability, Backup`.

If you specify both the `SourceType` and `SourceIds` (such as `SourceType = db-instance` and `SourceIdentifier = myDBInstance1`), you are notified of all the `db-instance` events for the specified source. If you specify a `SourceType` but do not specify a `SourceIdentifier`, you receive notice of the events for that source type for all your Amazon DocumentDB sources. If you do not specify either the `SourceType` or the `SourceIdentifier`, you are notified of events generated from all Amazon DocumentDB sources belonging to your customer account.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### SnsTopicArn

The Amazon Resource Name (ARN) of the SNS topic created for event notification. Amazon SNS creates the ARN when you create a topic and subscribe to it.

Type: String

Required: Yes

#### SubscriptionName

The name of the subscription.

Constraints: The name must be fewer than 255 characters.

Type: String

Required: Yes

## Enabled

A Boolean value; set to `true` to activate the subscription, set to `false` to create the subscription but not active it.

Type: Boolean

Required: No

## EventCategories.EventCategory.N

A list of event categories for a `SourceType` that you want to subscribe to.

Type: Array of strings

Required: No

## SourceIds.SourceId.N

The list of identifiers of the event sources for which events are returned. If not specified, then all sources are included in the response. An identifier must begin with a letter and must contain only ASCII letters, digits, and hyphens; it can't end with a hyphen or contain two consecutive hyphens.

Constraints:

- If `SourceIds` are provided, `SourceType` must also be provided.
- If the source type is an instance, a `DBInstanceIdentifier` must be provided.
- If the source type is a security group, a `DBSecurityGroupName` must be provided.
- If the source type is a parameter group, a `DBParameterGroupName` must be provided.
- If the source type is a snapshot, a `DBSnapshotIdentifier` must be provided.

Type: Array of strings

Required: No

## SourceType

The type of source that is generating the events. For example, if you want to be notified of events generated by an instance, you would set this parameter to `db-instance`. If this value is not specified, all events are returned.

Valid values: `db-instance`, `db-cluster`, `db-parameter-group`, `db-security-group`, `db-cluster-snapshot`

Type: String

Required: No

### **Tags.Tag.N**

The tags to be assigned to the event subscription.

Type: Array of [Tag](#) objects

Required: No

## **Response Elements**

The following element is returned by the service.

### **EventSubscription**

Detailed information about an event to which you have subscribed.

Type: [EventSubscription](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **EventSubscriptionQuotaExceeded**

You have reached the maximum number of event subscriptions.

HTTP Status Code: 400

### **SNSInvalidTopic**

Amazon SNS has responded that there is a problem with the specified topic.

HTTP Status Code: 400

### **SNSNoAuthorization**

You do not have permission to publish to the SNS topic Amazon Resource Name (ARN).

HTTP Status Code: 400

### **SNSTopicArnNotFound**

The SNS topic Amazon Resource Name (ARN) does not exist.

HTTP Status Code: 404

### **SourceNotFound**

The requested source could not be found.

HTTP Status Code: 404

### **SubscriptionAlreadyExist**

The provided subscription name already exists.

HTTP Status Code: 400

### **SubscriptionCategoryNotFound**

The provided category does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
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- [AWS SDK for PHP V3](#)
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- [AWS SDK for Ruby V3](#)



# CreateGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates an Amazon DocumentDB global cluster that can span multiple multiple AWS Regions. The global cluster contains one primary cluster with read-write capability, and up-to 10 read-only secondary clusters. Global clusters uses storage-based fast replication across regions with latencies less than one second, using dedicated infrastructure with no impact to your workload's performance.

You can create a global cluster that is initially empty, and then add a primary and a secondary to it. Or you can specify an existing cluster during the create operation, and this cluster becomes the primary of the global cluster.

## Note

This action only applies to Amazon DocumentDB clusters.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### GlobalClusterIdentifier

The cluster identifier of the new global cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### DatabaseName

The name for your database of up to 64 alpha-numeric characters. If you do not provide a name, Amazon DocumentDB will not create a database in the global cluster you are creating.

Type: String

Required: No

### **DeletionProtection**

The deletion protection setting for the new global cluster. The global cluster can't be deleted when deletion protection is enabled.

Type: Boolean

Required: No

### **Engine**

The name of the database engine to be used for this cluster.

Type: String

Required: No

### **EngineVersion**

The engine version of the global cluster.

Type: String

Required: No

### **SourceDBClusterIdentifier**

The Amazon Resource Name (ARN) to use as the primary cluster of the global cluster. This parameter is optional.

Type: String

Required: No

### **StorageEncrypted**

The storage encryption setting for the new global cluster.

Type: Boolean

Required: No

## **Response Elements**

The following element is returned by the service.

## GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### GlobalClusterAlreadyExistsFault

The `GlobalClusterIdentifier` already exists. Choose a new global cluster identifier (unique name) to create a new global cluster.

HTTP Status Code: 400

### GlobalClusterQuotaExceededFault

The number of global clusters for this account is already at the maximum allowed.

HTTP Status Code: 400

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DeleteDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a previously provisioned cluster. When you delete a cluster, all automated backups for that cluster are deleted and can't be recovered. Manual DB cluster snapshots of the specified cluster are not deleted.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The cluster identifier for the cluster to be deleted. This parameter isn't case sensitive.

Constraints:

- Must match an existing `DBClusterIdentifier`.

Type: String

Required: Yes

#### FinalDBSnapshotIdentifier

The cluster snapshot identifier of the new cluster snapshot created when `SkipFinalSnapshot` is set to `false`.

#### Note

Specifying this parameter and also setting the `SkipFinalShapshot` parameter to `true` results in an error.

Constraints:

- Must be from 1 to 255 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

## SkipFinalSnapshot

Determines whether a final cluster snapshot is created before the cluster is deleted. If `true` is specified, no cluster snapshot is created. If `false` is specified, a cluster snapshot is created before the DB cluster is deleted.

### Note

If `SkipFinalSnapshot` is `false`, you must specify a `FinalDBSnapshotIdentifier` parameter.

Default: `false`

Type: Boolean

Required: No

## Response Elements

The following element is returned by the service.

### DBCluster

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### DBClusterSnapshotAlreadyExistsFault

You already have a cluster snapshot with the given identifier.

HTTP Status Code: 400

### **InvalidDBClusterSnapshotStateFault**

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

### **InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

### **SnapshotQuotaExceeded**

The request would cause you to exceed the allowed number of snapshots.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DeleteDBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a specified cluster parameter group. The cluster parameter group to be deleted can't be associated with any clusters.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterParameterGroupName

The name of the cluster parameter group.

Constraints:

- Must be the name of an existing cluster parameter group.
- You can't delete a default cluster parameter group.
- Cannot be associated with any clusters.

Type: String

Required: Yes

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### DBParameterGroupNotFound

DBParameterGroupName doesn't refer to an existing parameter group.

HTTP Status Code: 404

#### InvalidDBParameterGroupState

The parameter group is in use, or it is in a state that is not valid. If you are trying to delete the parameter group, you can't delete it when the parameter group is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteDBClusterSnapshot

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a cluster snapshot. If the snapshot is being copied, the copy operation is terminated.

## Note

The cluster snapshot must be in the available state to be deleted.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBClusterSnapshotIdentifier

The identifier of the cluster snapshot to delete.

Constraints: Must be the name of an existing cluster snapshot in the available state.

Type: String

Required: Yes

## Response Elements

The following element is returned by the service.

### DBClusterSnapshot

Detailed information about a cluster snapshot.

Type: [DBClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterSnapshotNotFoundFault

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

## InvalidDBClusterSnapshotStateFault

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DeleteDBInstance

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a previously provisioned instance.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBInstanceIdentifier

The instance identifier for the instance to be deleted. This parameter isn't case sensitive.

Constraints:

- Must match the name of an existing instance.

Type: String

Required: Yes

### Response Elements

The following element is returned by the service.

#### DBInstance

Detailed information about an instance.

Type: [DBInstance](#) object

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### DBInstanceNotFound

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

#### DBSnapshotAlreadyExists

`DBSnapshotIdentifier` is already being used by an existing snapshot.

HTTP Status Code: 400

### **InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

### **InvalidDBInstanceState**

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### **SnapshotQuotaExceeded**

The request would cause you to exceed the allowed number of snapshots.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DeleteDBSubnetGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a subnet group.

### Note

The specified database subnet group must not be associated with any DB instances.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBSubnetGroupName

The name of the database subnet group to delete.

### Note

You can't delete the default subnet group.

Constraints:

Must match the name of an existing DBSubnetGroup. Must not be default.

Example: mySubnetgroup

Type: String

Required: Yes

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBSubnetGroupNotFoundFault

DBSubnetGroupName doesn't refer to an existing subnet group.

HTTP Status Code: 404

### **InvalidDBSubnetGroupStateFault**

The subnet group can't be deleted because it's in use.

HTTP Status Code: 400

### **InvalidDBSubnetStateFault**

The subnet isn't in the *available* state.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DeleteEventSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes an Amazon DocumentDB event notification subscription.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### SubscriptionName

The name of the Amazon DocumentDB event notification subscription that you want to delete.

Type: String

Required: Yes

### Response Elements

The following element is returned by the service.

#### EventSubscription

Detailed information about an event to which you have subscribed.

Type: [EventSubscription](#) object

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### InvalidEventSubscriptionState

Someone else might be modifying a subscription. Wait a few seconds, and try again.

HTTP Status Code: 400

#### SubscriptionNotFound

The subscription name does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Deletes a global cluster. The primary and secondary clusters must already be detached or deleted before attempting to delete a global cluster.

## Note

This action only applies to Amazon DocumentDB clusters.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### GlobalClusterIdentifier

The cluster identifier of the global cluster being deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Required: Yes

## Response Elements

The following element is returned by the service.

### GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## GlobalClusterNotFoundFault

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

## InvalidGlobalClusterStateFault

The requested operation can't be performed while the cluster is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeCertificates

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of certificate authority (CA) certificates provided by Amazon DocumentDB for this AWS account.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### CertificateIdentifier

The user-supplied certificate identifier. If this parameter is specified, information for only the specified certificate is returned. If this parameter is omitted, a list of up to `MaxRecords` certificates is returned. This parameter is not case sensitive.

Constraints

- Must match an existing `CertificateIdentifier`.

Type: String

Required: No

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous `DescribeCertificates` request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

## MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token called a marker is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints:

- Minimum: 20
- Maximum: 100

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### Certificates.Certificate.N

A list of certificates for this AWS account.

Type: Array of [Certificate](#) objects

### Marker

An optional pagination token provided if the number of records retrieved is greater than `MaxRecords`. If this parameter is specified, the marker specifies the next record in the list. Including the value of `Marker` in the next call to `DescribeCertificates` results in the next page of certificates.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### CertificateNotFound

`CertificateIdentifier` doesn't refer to an existing certificate.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeDBClusterParameterGroups

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of `DBClusterParameterGroup` descriptions. If a `DBClusterParameterGroupName` parameter is specified, the list contains only the description of the specified cluster parameter group.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### `DBClusterParameterGroupName`

The name of a specific cluster parameter group to return details for.

Constraints:

- If provided, must match the name of an existing `DBClusterParameterGroup`.

Type: String

Required: No

### `Filters.Filter.N`

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

### `Marker`

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### `MaxRecords`

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### **DBClusterParameterGroups.DBClusterParameterGroup.N**

A list of cluster parameter groups.

Type: Array of [DBClusterParameterGroup](#) objects

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBParameterGroupNotFound**

`DBParameterGroupName` doesn't refer to an existing parameter group.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBClusterParameters

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns the detailed parameter list for a particular cluster parameter group.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterParameterGroupName

The name of a specific cluster parameter group to return parameter details for.

Constraints:

- If provided, must match the name of an existing `DBClusterParameterGroup`.

Type: String

Required: Yes

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

#### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

### Source

A value that indicates to return only parameters for a specific source. Parameter sources can be `engine`, `service`, or `customer`.

Type: String

Required: No

## Response Elements

The following elements are returned by the service.

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

### Parameters.Parameter.N

Provides a list of parameters for the cluster parameter group.

Type: Array of [Parameter](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBParameterGroupNotFound

`DBParameterGroupName` doesn't refer to an existing parameter group.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBClusters

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns information about provisioned Amazon DocumentDB clusters. This API operation supports pagination. For certain management features such as cluster and instance lifecycle management, Amazon DocumentDB leverages operational technology that is shared with Amazon RDS and Amazon Neptune. Use the `filterName=engine,Values=docdb` filter parameter to return only Amazon DocumentDB clusters.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The user-provided cluster identifier. If this parameter is specified, information from only the specific cluster is returned. This parameter isn't case sensitive.

Constraints:

- If provided, must match an existing `DBClusterIdentifier`.

Type: String

Required: No

#### Filters.Filter.N

A filter that specifies one or more clusters to describe.

Supported filters:

- `db-cluster-id` - Accepts cluster identifiers and cluster Amazon Resource Names (ARNs). The results list only includes information about the clusters identified by these ARNs.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

## MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### DBClusters.DBCluster.N

A list of clusters.

Type: Array of [DBCluster](#) objects

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBClusterSnapshotAttributes

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of cluster snapshot attribute names and values for a manual DB cluster snapshot.

When you share snapshots with other AWS accounts, `DescribeDBClusterSnapshotAttributes` returns the `restore` attribute and a list of IDs for the AWS accounts that are authorized to copy or restore the manual cluster snapshot. If `all` is included in the list of values for the `restore` attribute, then the manual cluster snapshot is public and can be copied or restored by all AWS accounts.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### **DBClusterSnapshotIdentifier**

The identifier for the cluster snapshot to describe the attributes for.

Type: String

Required: Yes

### Response Elements

The following element is returned by the service.

#### **DBClusterSnapshotAttributesResult**

Detailed information about the attributes that are associated with a cluster snapshot.

Type: [DBClusterSnapshotAttributesResult](#) object

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### **DBClusterSnapshotNotFoundFault**

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBClusterSnapshots

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns information about cluster snapshots. This API operation supports pagination.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The ID of the cluster to retrieve the list of cluster snapshots for. This parameter can't be used with the `DBClusterSnapshotIdentifier` parameter. This parameter is not case sensitive.

Constraints:

- If provided, must match the identifier of an existing `DBCluster`.

Type: String

Required: No

#### DBClusterSnapshotIdentifier

A specific cluster snapshot identifier to describe. This parameter can't be used with the `DBClusterIdentifier` parameter. This value is stored as a lowercase string.

Constraints:

- If provided, must match the identifier of an existing `DBClusterSnapshot`.
- If this identifier is for an automated snapshot, the `SnapshotType` parameter must also be specified.

Type: String

Required: No

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

## **IncludePublic**

Set to `true` to include manual cluster snapshots that are public and can be copied or restored by any AWS account, and otherwise `false`. The default is `false`.

Type: Boolean

Required: No

## **IncludeShared**

Set to `true` to include shared manual cluster snapshots from other AWS accounts that this AWS account has been given permission to copy or restore, and otherwise `false`. The default is `false`.

Type: Boolean

Required: No

## **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

## **MaxRecords**

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## **SnapshotType**

The type of cluster snapshots to be returned. You can specify one of the following values:

- `automated` - Return all cluster snapshots that Amazon DocumentDB has automatically created for your AWS account.
- `manual` - Return all cluster snapshots that you have manually created for your AWS account.
- `shared` - Return all manual cluster snapshots that have been shared to your AWS account.
- `public` - Return all cluster snapshots that have been marked as public.

If you don't specify a `SnapshotType` value, then both automated and manual cluster snapshots are returned. You can include shared cluster snapshots with these results by setting the `IncludeShared` parameter to `true`. You can include public cluster snapshots with these results by setting the `IncludePublic` parameter to `true`.

The `IncludeShared` and `IncludePublic` parameters don't apply for `SnapshotType` values of `manual` or `automated`. The `IncludePublic` parameter doesn't apply when `SnapshotType` is set to `shared`. The `IncludeShared` parameter doesn't apply when `SnapshotType` is set to `public`.

Type: String

Required: No

## Response Elements

The following elements are returned by the service.

### **DBClusterSnapshots.DBClusterSnapshot.N**

Provides a list of cluster snapshots.

Type: Array of [DBClusterSnapshot](#) objects

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## DBClusterSnapshotNotFoundFault

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBEngineVersions

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of the available engines.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBParameterGroupFamily

The name of a specific parameter group family to return details for.

Constraints:

- If provided, must match an existing `DBParameterGroupFamily`.

Type: String

Required: No

#### DefaultOnly

Indicates that only the default version of the specified engine or engine and major version combination is returned.

Type: Boolean

Required: No

#### Engine

The database engine to return.

Type: String

Required: No

#### EngineVersion

The database engine version to return.

Example: 3.6.0

Type: String

Required: No

### **Filters.Filter.N**

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

### **ListSupportedCharacterSets**

If this parameter is specified and the requested engine supports the `CharacterSetName` parameter for `CreateDBInstance`, the response includes a list of supported character sets for each engine version.

Type: Boolean

Required: No

### **ListSupportedTimezones**

If this parameter is specified and the requested engine supports the `TimeZone` parameter for `CreateDBInstance`, the response includes a list of supported time zones for each engine version.

Type: Boolean

Required: No

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### **MaxRecords**

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### **DBEngineVersions.DBEngineVersion.N**

Detailed information about one or more engine versions.

Type: Array of [DBEngineVersion](#) objects

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBInstances

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns information about provisioned Amazon DocumentDB instances. This API supports pagination.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBInstanceIdentifier

The user-provided instance identifier. If this parameter is specified, information from only the specific instance is returned. This parameter isn't case sensitive.

Constraints:

- If provided, must match the identifier of an existing DBInstance.

Type: String

Required: No

#### Filters.Filter.N

A filter that specifies one or more instances to describe.

Supported filters:

- `db-cluster-id` - Accepts cluster identifiers and cluster Amazon Resource Names (ARNs). The results list includes only the information about the instances that are associated with the clusters that are identified by these ARNs.
- `db-instance-id` - Accepts instance identifiers and instance ARNs. The results list includes only the information about the instances that are identified by these ARNs.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### DBInstances.DBInstance.N

Detailed information about one or more instances.

Type: Array of [DBInstance](#) objects

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBInstanceNotFound

`DBInstanceIdentifier` doesn't refer to an existing instance.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeDBSubnetGroups

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of DBSubnetGroup descriptions. If a DBSubnetGroupName is specified, the list will contain only the descriptions of the specified DBSubnetGroup.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBSubnetGroupName

The name of the subnet group to return details for.

Type: String

Required: No

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by MaxRecords.

Type: String

Required: No

#### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified MaxRecords value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### **DBSubnetGroups.DBSubnetGroup.N**

Detailed information about one or more subnet groups.

Type: Array of [DBSubnetGroup](#) objects

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeEngineDefaultClusterParameters

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns the default engine and system parameter information for the cluster database engine.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBParameterGroupFamily

The name of the cluster parameter group family to return the engine parameter information for.

Type: String

Required: Yes

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

#### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## Response Elements

The following element is returned by the service.

### EngineDefaults

Contains the result of a successful invocation of the `DescribeEngineDefaultClusterParameters` operation.

Type: [EngineDefaults](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeEventCategories

Service: Amazon DocumentDB (with MongoDB compatibility)

Displays a list of categories for all event source types, or, if specified, for a specified source type.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### SourceType

The type of source that is generating the events.

Valid values: db-instance, db-parameter-group, db-security-group

Type: String

Required: No

### Response Elements

The following element is returned by the service.

#### EventCategoriesMapList.EventCategoriesMap.N

A list of event category maps.

Type: Array of [EventCategoriesMap](#) objects

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeEvents

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns events related to instances, security groups, snapshots, and DB parameter groups for the past 14 days. You can obtain events specific to a particular DB instance, security group, snapshot, or parameter group by providing the name as a parameter. By default, the events of the past hour are returned.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### Duration

The number of minutes to retrieve events for.

Default: 60

Type: Integer

Required: No

#### EndTime

The end of the time interval for which to retrieve events, specified in ISO 8601 format.

Example: 2009-07-08T18:00Z

Type: Timestamp

Required: No

#### EventCategories.EventCategory.N

A list of event categories that trigger notifications for an event notification subscription.

Type: Array of strings

Required: No

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

### SourceIdentifier

The identifier of the event source for which events are returned. If not specified, then all sources are included in the response.

Constraints:

- If `SourceIdentifier` is provided, `SourceType` must also be provided.
- If the source type is `DBInstance`, a `DBInstanceIdentifier` must be provided.
- If the source type is `DBSecurityGroup`, a `DBSecurityGroupName` must be provided.
- If the source type is `DBParameterGroup`, a `DBParameterGroupName` must be provided.
- If the source type is `DBSnapshot`, a `DBSnapshotIdentifier` must be provided.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

## SourceType

The event source to retrieve events for. If no value is specified, all events are returned.

Type: String

Valid Values: `db-instance` | `db-parameter-group` | `db-security-group` | `db-snapshot` | `db-cluster` | `db-cluster-snapshot`

Required: No

## StartTime

The beginning of the time interval to retrieve events for, specified in ISO 8601 format.

Example: `2009-07-08T18:00Z`

Type: Timestamp

Required: No

## Response Elements

The following elements are returned by the service.

### Events.Event.N

Detailed information about one or more events.

Type: Array of [Event](#) objects

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeEventSubscriptions

Service: Amazon DocumentDB (with MongoDB compatibility)

Lists all the subscription descriptions for a customer account. The description for a subscription includes SubscriptionName, SNSTopicARN, CustomerID, SourceType, SourceID, CreationTime, and Status.

If you specify a SubscriptionName, lists the description for that subscription.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by MaxRecords.

Type: String

Required: No

#### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified MaxRecords value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

## SubscriptionName

The name of the Amazon DocumentDB event notification subscription that you want to describe.

Type: String

Required: No

## Response Elements

The following elements are returned by the service.

### EventSubscriptionsList.EventSubscription.N

A list of event subscriptions.

Type: Array of [EventSubscription](#) objects

## Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### SubscriptionNotFound

The subscription name does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeGlobalClusters

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns information about Amazon DocumentDB global clusters. This API supports pagination.

## Note

This action only applies to Amazon DocumentDB clusters.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### Filters.Filter.N

A filter that specifies one or more global DB clusters to describe.

Supported filters: `db-cluster-id` accepts cluster identifiers and cluster Amazon Resource Names (ARNs). The results list will only include information about the clusters identified by these ARNs.

Type: Array of [Filter](#) objects

Required: No

### GlobalClusterIdentifier

The user-supplied cluster identifier. If this parameter is specified, information from only the specific cluster is returned. This parameter isn't case-sensitive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: No

### Marker

An optional pagination token provided by a previous `DescribeGlobalClusters` request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified MaxRecords value, a pagination token called a marker is included in the response so that you can retrieve the remaining results.

Type: Integer

Required: No

## Response Elements

The following elements are returned by the service.

### GlobalClusters.GlobalClusterMember.N

Type: Array of [GlobalCluster](#) objects

### Marker

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### GlobalClusterNotFoundFault

The GlobalClusterIdentifier doesn't refer to an existing global cluster.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribeOrderableDBInstanceOptions

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of orderable instance options for the specified engine.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### Engine

The name of the engine to retrieve instance options for.

Type: String

Required: Yes

#### DBInstanceClass

The instance class filter value. Specify this parameter to show only the available offerings that match the specified instance class.

Type: String

Required: No

#### EngineVersion

The engine version filter value. Specify this parameter to show only the available offerings that match the specified engine version.

Type: String

Required: No

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

#### LicenseModel

The license model filter value. Specify this parameter to show only the available offerings that match the specified license model.

Type: String

Required: No

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

### Vpc

The virtual private cloud (VPC) filter value. Specify this parameter to show only the available VPC or non-VPC offerings.

Type: Boolean

Required: No

## Response Elements

The following elements are returned by the service.

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

## **OrderableDBInstanceOptions.OrderableDBInstanceOption.N**

The options that are available for a particular orderable instance.

Type: Array of [OrderableDBInstanceOption](#) objects

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## DescribePendingMaintenanceActions

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns a list of resources (for example, instances) that have at least one pending maintenance action.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### Filters.Filter.N

A filter that specifies one or more resources to return pending maintenance actions for.

Supported filters:

- `db-cluster-id` - Accepts cluster identifiers and cluster Amazon Resource Names (ARNs). The results list includes only pending maintenance actions for the clusters identified by these ARNs.
- `db-instance-id` - Accepts instance identifiers and instance ARNs. The results list includes only pending maintenance actions for the DB instances identified by these ARNs.

Type: Array of [Filter](#) objects

Required: No

#### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

#### MaxRecords

The maximum number of records to include in the response. If more records exist than the specified `MaxRecords` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Default: 100

Constraints: Minimum 20, maximum 100.

Type: Integer

Required: No

### **ResourceIdentifier**

The ARN of a resource to return pending maintenance actions for.

Type: String

Required: No

## **Response Elements**

The following elements are returned by the service.

### **Marker**

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

### **PendingMaintenanceActions.ResourcePendingMaintenanceActions.N**

The maintenance actions to be applied.

Type: Array of [ResourcePendingMaintenanceActions](#) objects

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ResourceNotFoundFault**

The specified resource ID was not found.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## FailoverDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Forces a failover for a cluster.

A failover for a cluster promotes one of the Amazon DocumentDB replicas (read-only instances) in the cluster to be the primary instance (the cluster writer).

If the primary instance fails, Amazon DocumentDB automatically fails over to an Amazon DocumentDB replica, if one exists. You can force a failover when you want to simulate a failure of a primary instance for testing.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

A cluster identifier to force a failover for. This parameter is not case sensitive.

Constraints:

- Must match the identifier of an existing `DBCluster`.

Type: String

Required: No

#### TargetDBInstanceIdentifier

The name of the instance to promote to the primary instance.

You must specify the instance identifier for an Amazon DocumentDB replica in the cluster. For example, `mydbcluster-replica1`.

Type: String

Required: No

### Response Elements

The following element is returned by the service.

## DBCluster

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### InvalidDBInstanceState

The specified instance isn't in the *available* state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# FailoverGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Promotes the specified secondary DB cluster to be the primary DB cluster in the global cluster when failing over a global cluster occurs.

Use this operation to respond to an unplanned event, such as a regional disaster in the primary region. Failing over can result in a loss of write transaction data that wasn't replicated to the chosen secondary before the failover event occurred. However, the recovery process that promotes a DB instance on the chosen secondary DB cluster to be the primary writer DB instance guarantees that the data is in a transactionally consistent state.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### GlobalClusterIdentifier

The identifier of the Amazon DocumentDB global cluster to apply this operation. The identifier is the unique key assigned by the user when the cluster is created. In other words, it's the name of the global cluster.

Constraints:

- Must match the identifier of an existing global cluster.
- Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### TargetDbClusterIdentifier

The identifier of the secondary Amazon DocumentDB cluster that you want to promote to the primary for the global cluster. Use the Amazon Resource Name (ARN) for the identifier so that Amazon DocumentDB can locate the cluster in its AWS region.

**Constraints:**

- Must match the identifier of an existing secondary cluster.
- Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Required: Yes

**AllowDataLoss**

Specifies whether to allow data loss for this global cluster operation. Allowing data loss triggers a global failover operation.

If you don't specify `AllowDataLoss`, the global cluster operation defaults to a switchover.

**Constraints:**

- Can't be specified together with the `Switchover` parameter.

Type: Boolean

Required: No

**Switchover**

Specifies whether to switch over this global database cluster.

**Constraints:**

- Can't be specified together with the `AllowDataLoss` parameter.

Type: Boolean

Required: No

**Response Elements**

The following element is returned by the service.

## GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### GlobalClusterNotFoundFault

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### InvalidGlobalClusterStateFault

The requested operation can't be performed while the cluster is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ListTagsForResource

Service: Amazon DocumentDB (with MongoDB compatibility)

Lists all tags on an Amazon DocumentDB resource.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### ResourceName

The Amazon DocumentDB resource with tags to be listed. This value is an Amazon Resource Name (ARN).

Type: String

Required: Yes

#### Filters.Filter.N

This parameter is not currently supported.

Type: Array of [Filter](#) objects

Required: No

### Response Elements

The following element is returned by the service.

#### TagList.Tag.N

A list of one or more tags.

Type: Array of [Tag](#) objects

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### **DBInstanceNotFound**

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

### **DBSnapshotNotFound**

`DBSnapshotIdentifier` doesn't refer to an existing snapshot.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies a setting for an Amazon DocumentDB cluster. You can change one or more database configuration parameters by specifying these parameters and the new values in the request.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBClusterIdentifier

The cluster identifier for the cluster that is being modified. This parameter is not case sensitive.

Constraints:

- Must match the identifier of an existing `DBCluster`.

Type: String

Required: Yes

### AllowMajorVersionUpgrade

A value that indicates whether major version upgrades are allowed.

Constraints:

- You must allow major version upgrades when specifying a value for the `EngineVersion` parameter that is a different major version than the cluster's current version.
- Since some parameters are version specific, changing them requires executing a new `ModifyDBCluster` API call after the in-place MVU completes.

#### Note

Performing an MVU directly impacts the following parameters:

- `MasterUserPassword`
- `NewDBClusterIdentifier`
- `VpcSecurityGroupIds`
- `Port`

Type: Boolean

Required: No

### **ApplyImmediately**

A value that specifies whether the changes in this request and any pending changes are asynchronously applied as soon as possible, regardless of the `PreferredMaintenanceWindow` setting for the cluster. If this parameter is set to `false`, changes to the cluster are applied during the next maintenance window.

The `ApplyImmediately` parameter affects only the `NewDBClusterIdentifier` and `MasterUserPassword` values. If you set this parameter value to `false`, the changes to the `NewDBClusterIdentifier` and `MasterUserPassword` values are applied during the next maintenance window. All other changes are applied immediately, regardless of the value of the `ApplyImmediately` parameter.

Default: `false`

Type: Boolean

Required: No

### **BackupRetentionPeriod**

The number of days for which automated backups are retained. You must specify a minimum value of 1.

Default: 1

Constraints:

- Must be a value from 1 to 35.

Type: Integer

Required: No

### **CloudwatchLogsExportConfiguration**

The configuration setting for the log types to be enabled for export to Amazon CloudWatch Logs for a specific instance or cluster. The `EnableLogTypes` and `DisableLogTypes` arrays determine which logs are exported (or not exported) to CloudWatch Logs.

Type: [CloudwatchLogsExportConfiguration](#) object

Required: No

### **DBClusterParameterGroupName**

The name of the cluster parameter group to use for the cluster.

Type: String

Required: No

### **DeletionProtection**

Specifies whether this cluster can be deleted. If `DeletionProtection` is enabled, the cluster cannot be deleted unless it is modified and `DeletionProtection` is disabled. `DeletionProtection` protects clusters from being accidentally deleted.

Type: Boolean

Required: No

### **EngineVersion**

The version number of the database engine to which you want to upgrade. Changing this parameter results in an outage. The change is applied during the next maintenance window unless `ApplyImmediately` is enabled.

To list all of the available engine versions for Amazon DocumentDB use the following command:

```
aws docdb describe-db-engine-versions --engine docdb --query
"DBEngineVersions[].EngineVersion"
```

Type: String

Required: No

### **ManageMasterUserPassword**

Specifies whether to manage the master user password with Amazon Web Services Secrets Manager. If the cluster doesn't manage the master user password with Amazon Web Services Secrets Manager, you can turn on this management. In this case, you can't specify `MasterUserPassword`. If the cluster already manages the master user password with Amazon Web Services Secrets Manager, and you specify that the master user password is not managed with Amazon Web Services Secrets Manager, then you must specify `MasterUserPassword`. In

this case, Amazon DocumentDB deletes the secret and uses the new password for the master user specified by `MasterUserPassword`.

Type: Boolean

Required: No

### **MasterUserPassword**

The password for the master database user. This password can contain any printable ASCII character except forward slash (/), double quote ("), or the "at" symbol (@).

Constraints: Must contain from 8 to 100 characters.

Type: String

Required: No

### **MasterUserSecretKmsKeyId**

The Amazon Web Services KMS key identifier to encrypt a secret that is automatically generated and managed in Amazon Web Services Secrets Manager.

This setting is valid only if both of the following conditions are met:

- The cluster doesn't manage the master user password in Amazon Web Services Secrets Manager. If the cluster already manages the master user password in Amazon Web Services Secrets Manager, you can't change the KMS key that is used to encrypt the secret.
- You are enabling `ManageMasterUserPassword` to manage the master user password in Amazon Web Services Secrets Manager. If you are turning on `ManageMasterUserPassword` and don't specify `MasterUserSecretKmsKeyId`, then the `aws/secretsmanager` KMS key is used to encrypt the secret. If the secret is in a different Amazon Web Services account, then you can't use the `aws/secretsmanager` KMS key to encrypt the secret, and you must use a customer managed KMS key.

The Amazon Web Services KMS key identifier is the key ARN, key ID, alias ARN, or alias name for the KMS key. To use a KMS key in a different Amazon Web Services account, specify the key ARN or alias ARN.

There is a default KMS key for your Amazon Web Services account. Your Amazon Web Services account has a different default KMS key for each Amazon Web Services Region.

Type: String

Required: No

## NetworkType

The network type of the cluster.

The network type is determined by the DBSubnetGroup specified for the cluster. A DBSubnetGroup can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

For more information, see [DocumentDB clusters in a VPC](#) in the Amazon DocumentDB Developer Guide.

Valid Values: IPV4 | DUAL

Type: String

Required: No

## NewDBClusterIdentifier

The new cluster identifier for the cluster when renaming a cluster. This value is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: my-cluster2

Type: String

Required: No

## Port

The port number on which the cluster accepts connections.

Constraints: Must be a value from 1150 to 65535.

Default: The same port as the original cluster.

Type: Integer

Required: No

### **PreferredBackupWindow**

The daily time range during which automated backups are created if automated backups are enabled, using the `BackupRetentionPeriod` parameter.

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region.

Constraints:

- Must be in the format `hh24:mi-hh24:mi`.
- Must be in Universal Coordinated Time (UTC).
- Must not conflict with the preferred maintenance window.
- Must be at least 30 minutes.

Type: String

Required: No

### **PreferredMaintenanceWindow**

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Format: `ddd:hh24:mi-ddd:hh24:mi`

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Constraints: Minimum 30-minute window.

Type: String

Required: No

### **RotateMasterUserPassword**

Specifies whether to rotate the secret managed by Amazon Web Services Secrets Manager for the master user password.

This setting is valid only if the master user password is managed by Amazon DocumentDB in Amazon Web Services Secrets Manager for the cluster. The secret value contains the updated password.

Constraint: You must apply the change immediately when rotating the master user password.

Type: Boolean

Required: No

### **ServerlessV2ScalingConfiguration**

Contains the scaling configuration of an Amazon DocumentDB Serverless cluster.

Type: [ServerlessV2ScalingConfiguration](#) object

Required: No

### **StorageType**

The storage type to associate with the DB cluster.

For information on storage types for Amazon DocumentDB clusters, see Cluster storage configurations in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - standard | iopt1

Default value is standard

Type: String

Required: No

### **VpcSecurityGroupIds.VpcSecurityGroupId.N**

A list of virtual private cloud (VPC) security groups that the cluster will belong to.

Type: Array of strings

Required: No

## **Response Elements**

The following element is returned by the service.

## DBCluster

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterAlreadyExistsFault

You already have a cluster with the given identifier.

HTTP Status Code: 400

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### DBClusterParameterGroupNotFound

`DBClusterParameterGroupName` doesn't refer to an existing cluster parameter group.

HTTP Status Code: 404

### DBSubnetGroupNotFoundFault

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### InvalidDBInstanceState

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### **InvalidDBSecurityGroupState**

The state of the security group doesn't allow deletion.

HTTP Status Code: 400

### **InvalidDBSubnetGroupStateFault**

The subnet group can't be deleted because it's in use.

HTTP Status Code: 400

### **InvalidSubnet**

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

### **InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

### **NetworkTypeNotSupported**

The network type is not supported by either DBSubnetGroup or the DB engine version.

HTTP Status Code: 400

### **StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ModifyDBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies the parameters of a cluster parameter group. To modify more than one parameter, submit a list of the following: `ParameterName`, `ParameterValue`, and `ApplyMethod`. A maximum of 20 parameters can be modified in a single request.

### Note

Changes to dynamic parameters are applied immediately. Changes to static parameters require a reboot or maintenance window before the change can take effect.

### Important

After you create a cluster parameter group, you should wait at least 5 minutes before creating your first cluster that uses that cluster parameter group as the default parameter group. This allows Amazon DocumentDB to fully complete the create action before the parameter group is used as the default for a new cluster. This step is especially important for parameters that are critical when creating the default database for a cluster, such as the character set for the default database defined by the `character_set_database` parameter.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### **DBClusterParameterGroupName**

The name of the cluster parameter group to modify.

Type: String

Required: Yes

### **Parameters.Parameter.N**

A list of parameters in the cluster parameter group to modify.

Type: Array of [Parameter](#) objects

Required: Yes

## Response Elements

The following element is returned by the service.

### DBClusterParameterGroupName

The name of a cluster parameter group.

Constraints:

- Must be from 1 to 255 letters or numbers.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

#### Note

This value is stored as a lowercase string.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBParameterGroupNotFound

DBParameterGroupName doesn't refer to an existing parameter group.

HTTP Status Code: 404

### InvalidDBParameterGroupState

The parameter group is in use, or it is in a state that is not valid. If you are trying to delete the parameter group, you can't delete it when the parameter group is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyDBClusterSnapshotAttribute

Service: Amazon DocumentDB (with MongoDB compatibility)

Adds an attribute and values to, or removes an attribute and values from, a manual cluster snapshot.

To share a manual cluster snapshot with other AWS accounts, specify `restore` as the `AttributeName`, and use the `ValuesToAdd` parameter to add a list of IDs of the AWS accounts that are authorized to restore the manual cluster snapshot. Use the value `all` to make the manual cluster snapshot public, which means that it can be copied or restored by all AWS accounts. Do not add the `all` value for any manual cluster snapshots that contain private information that you don't want available to all AWS accounts. If a manual cluster snapshot is encrypted, it can be shared, but only by specifying a list of authorized AWS account IDs for the `ValuesToAdd` parameter. You can't use `all` as a value for that parameter in this case.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### AttributeName

The name of the cluster snapshot attribute to modify.

To manage authorization for other AWS accounts to copy or restore a manual cluster snapshot, set this value to `restore`.

Type: String

Required: Yes

### DBClusterSnapshotIdentifier

The identifier for the cluster snapshot to modify the attributes for.

Type: String

Required: Yes

### ValuesToAdd.AttributeValue.N

A list of cluster snapshot attributes to add to the attribute specified by `AttributeName`.

To authorize other AWS accounts to copy or restore a manual cluster snapshot, set this list to include one or more AWS account IDs. To make the manual cluster snapshot restorable by any AWS account, set it to `all`. Do not add the `all` value for any manual cluster snapshots that contain private information that you don't want to be available to all AWS accounts.

Type: Array of strings

Required: No

### **ValuesToRemove.AttributeValue.N**

A list of cluster snapshot attributes to remove from the attribute specified by `AttributeName`.

To remove authorization for other AWS accounts to copy or restore a manual cluster snapshot, set this list to include one or more AWS account identifiers. To remove authorization for any AWS account to copy or restore the cluster snapshot, set it to `all`. If you specify `all`, an AWS account whose account ID is explicitly added to the `restore` attribute can still copy or restore a manual cluster snapshot.

Type: Array of strings

Required: No

## **Response Elements**

The following element is returned by the service.

### **DBClusterSnapshotAttributesResult**

Detailed information about the attributes that are associated with a cluster snapshot.

Type: [DBClusterSnapshotAttributesResult](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBClusterSnapshotNotFoundFault**

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

## InvalidDBClusterSnapshotStateFault

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

## SharedSnapshotQuotaExceeded

You have exceeded the maximum number of accounts that you can share a manual DB snapshot with.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyDBInstance

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies settings for an instance. You can change one or more database configuration parameters by specifying these parameters and the new values in the request.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBInstanceIdentifier

The instance identifier. This value is stored as a lowercase string.

Constraints:

- Must match the identifier of an existing DBInstance.

Type: String

Required: Yes

### ApplyImmediately

Specifies whether the modifications in this request and any pending modifications are asynchronously applied as soon as possible, regardless of the PreferredMaintenanceWindow setting for the instance.

If this parameter is set to `false`, changes to the instance are applied during the next maintenance window. Some parameter changes can cause an outage and are applied on the next reboot.

Default: `false`

Type: Boolean

Required: No

### AutoMinorVersionUpgrade

This parameter does not apply to Amazon DocumentDB. Amazon DocumentDB does not perform minor version upgrades regardless of the value set.

Type: Boolean

Required: No

### **CACertificateIdentifier**

Indicates the certificate that needs to be associated with the instance.

Type: String

Required: No

### **CertificateRotationRestart**

Specifies whether the DB instance is restarted when you rotate your SSL/TLS certificate.

By default, the DB instance is restarted when you rotate your SSL/TLS certificate. The certificate is not updated until the DB instance is restarted.

#### **Important**

Set this parameter only if you are *not* using SSL/TLS to connect to the DB instance.

If you are using SSL/TLS to connect to the DB instance, see [Updating Your Amazon DocumentDB TLS Certificates](#) and [Encrypting Data in Transit](#) in the *Amazon DocumentDB Developer Guide*.

Type: Boolean

Required: No

### **CopyTagsToSnapshot**

A value that indicates whether to copy all tags from the DB instance to snapshots of the DB instance. By default, tags are not copied.

Type: Boolean

Required: No

### **DBInstanceClass**

The new compute and memory capacity of the instance; for example, `db.r5.large`. Not all instance classes are available in all AWS Regions.

If you modify the instance class, an outage occurs during the change. The change is applied during the next maintenance window, unless `ApplyImmediately` is specified as `true` for this request.

Default: Uses existing setting.

Type: String

Required: No

### **EnablePerformanceInsights**

A value that indicates whether to enable Performance Insights for the DB Instance. For more information, see [Using Amazon Performance Insights](#).

Type: Boolean

Required: No

### **NewDBInstanceIdentifier**

The new instance identifier for the instance when renaming an instance. When you change the instance identifier, an instance reboot occurs immediately if you set `Apply Immediately` to `true`. It occurs during the next maintenance window if you set `Apply Immediately` to `false`. This value is stored as a lowercase string.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: `mydbinstance`

Type: String

Required: No

### **PerformanceInsightsKMSKeyId**

The AWS KMS key identifier for encryption of Performance Insights data.

The AWS KMS key identifier is the key ARN, key ID, alias ARN, or alias name for the KMS key.

If you do not specify a value for `PerformanceInsightsKMSKeyId`, then Amazon DocumentDB uses your default KMS key. There is a default KMS key for your Amazon Web Services account. Your Amazon Web Services account has a different default KMS key for each Amazon Web Services region.

Type: String

Required: No

### **PreferredMaintenanceWindow**

The weekly time range (in UTC) during which system maintenance can occur, which might result in an outage. Changing this parameter doesn't result in an outage except in the following situation, and the change is asynchronously applied as soon as possible. If there are pending actions that cause a reboot, and the maintenance window is changed to include the current time, changing this parameter causes a reboot of the instance. If you are moving this window to the current time, there must be at least 30 minutes between the current time and end of the window to ensure that pending changes are applied.

Default: Uses existing setting.

Format: `ddd:hh24:mi-ddd:hh24:mi`

Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Constraints: Must be at least 30 minutes.

Type: String

Required: No

### **PromotionTier**

A value that specifies the order in which an Amazon DocumentDB replica is promoted to the primary instance after a failure of the existing primary instance.

Default: 1

Valid values: 0-15

Type: Integer

Required: No

## Response Elements

The following element is returned by the service.

### DBInstance

Detailed information about an instance.

Type: [DBInstance](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AuthorizationNotFound

The specified CIDR IP or Amazon EC2 security group isn't authorized for the specified security group.

Amazon DocumentDB also might not be authorized to perform necessary actions on your behalf using IAM.

HTTP Status Code: 404

### CertificateNotFound

`CertificateIdentifier` doesn't refer to an existing certificate.

HTTP Status Code: 404

### DBInstanceAlreadyExists

You already have a instance with the given identifier.

HTTP Status Code: 400

### DBInstanceNotFound

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

### DBParameterGroupNotFound

`DBParameterGroupName` doesn't refer to an existing parameter group.

HTTP Status Code: 404

### **DBSecurityGroupNotFound**

DBSecurityGroupName doesn't refer to an existing security group.

HTTP Status Code: 404

### **DBUpgradeDependencyFailure**

The upgrade failed because a resource that the depends on can't be modified.

HTTP Status Code: 400

### **InsufficientDBInstanceCapacity**

The specified instance class isn't available in the specified Availability Zone.

HTTP Status Code: 400

### **InvalidDBInstanceState**

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### **InvalidDBSecurityGroupState**

The state of the security group doesn't allow deletion.

HTTP Status Code: 400

### **InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

### **StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

### **StorageTypeNotSupported**

Storage of the specified StorageType can't be associated with the DB instance.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyDBSubnetGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies an existing subnet group. subnet groups must contain at least one subnet in at least two Availability Zones in the AWS Region.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBSubnetGroupName

The name for the subnet group. This value is stored as a lowercase string. You can't modify the default subnet group.

Constraints: Must match the name of an existing DBSubnetGroup. Must not be default.

Example: mySubnetgroup

Type: String

Required: Yes

### SubnetIds.SubnetIdentifier.N

The Amazon EC2 subnet IDs for the subnet group.

Type: Array of strings

Required: Yes

### DBSubnetGroupDescription

The description for the subnet group.

Type: String

Required: No

## Response Elements

The following element is returned by the service.

## DBSubnetGroup

Detailed information about a subnet group.

Type: [DBSubnetGroup](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBSubnetGroupDoesNotCoverEnoughAZs

Subnets in the subnet group should cover at least two Availability Zones unless there is only one Availability Zone.

HTTP Status Code: 400

### DBSubnetGroupNotFoundFault

DBSubnetGroupName doesn't refer to an existing subnet group.

HTTP Status Code: 404

### DBSubnetQuotaExceededFault

The request would cause you to exceed the allowed number of subnets in a subnet group.

HTTP Status Code: 400

### InvalidSubnet

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

### SubnetAlreadyInUse

The subnet is already in use in the Availability Zone.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyEventSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies an existing Amazon DocumentDB event notification subscription.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### SubscriptionName

The name of the Amazon DocumentDB event notification subscription.

Type: String

Required: Yes

### Enabled

A Boolean value; set to `true` to activate the subscription.

Type: Boolean

Required: No

### EventCategories.EventCategory.N

A list of event categories for a `SourceType` that you want to subscribe to.

Type: Array of strings

Required: No

### SnsTopicArn

The Amazon Resource Name (ARN) of the SNS topic created for event notification. The ARN is created by Amazon SNS when you create a topic and subscribe to it.

Type: String

Required: No

### SourceType

The type of source that is generating the events. For example, if you want to be notified of events generated by an instance, set this parameter to `db-instance`. If this value is not specified, all events are returned.

Valid values: db-instance, db-parameter-group, db-security-group

Type: String

Required: No

## Response Elements

The following element is returned by the service.

### EventSubscription

Detailed information about an event to which you have subscribed.

Type: [EventSubscription](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### EventSubscriptionQuotaExceeded

You have reached the maximum number of event subscriptions.

HTTP Status Code: 400

### SNSInvalidTopic

Amazon SNS has responded that there is a problem with the specified topic.

HTTP Status Code: 400

### SNSNoAuthorization

You do not have permission to publish to the SNS topic Amazon Resource Name (ARN).

HTTP Status Code: 400

### SNSTopicArnNotFound

The SNS topic Amazon Resource Name (ARN) does not exist.

HTTP Status Code: 404

## SubscriptionCategoryNotFound

The provided category does not exist.

HTTP Status Code: 404

## SubscriptionNotFound

The subscription name does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ModifyGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Modify a setting for an Amazon DocumentDB global cluster. You can change one or more configuration parameters (for example: deletion protection), or the global cluster identifier by specifying these parameters and the new values in the request.

## Note

This action only applies to Amazon DocumentDB clusters.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### GlobalClusterIdentifier

The identifier for the global cluster being modified. This parameter isn't case-sensitive.

Constraints:

- Must match the identifier of an existing global cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Required: Yes

### DeletionProtection

Indicates if the global cluster has deletion protection enabled. The global cluster can't be deleted when deletion protection is enabled.

Type: Boolean

Required: No

### NewGlobalClusterIdentifier

The new identifier for a global cluster when you modify a global cluster. This value is stored as a lowercase string.

- Must contain from 1 to 63 letters, numbers, or hyphens

The first character must be a letter

Can't end with a hyphen or contain two consecutive hyphens

Example: `my-cluster2`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: No

## Response Elements

The following element is returned by the service.

### GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### GlobalClusterNotFoundFault

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

### InvalidGlobalClusterStateFault

The requested operation can't be performed while the cluster is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## RebootDBInstance

Service: Amazon DocumentDB (with MongoDB compatibility)

You might need to reboot your instance, usually for maintenance reasons. For example, if you make certain changes, or if you change the cluster parameter group that is associated with the instance, you must reboot the instance for the changes to take effect.

Rebooting an instance restarts the database engine service. Rebooting an instance results in a momentary outage, during which the instance status is set to *rebooting*.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBInstanceIdentifier

The instance identifier. This parameter is stored as a lowercase string.

Constraints:

- Must match the identifier of an existing DBInstance.

Type: String

Required: Yes

#### ForceFailover

When `true`, the reboot is conducted through a Multi-AZ failover.

Constraint: You can't specify `true` if the instance is not configured for Multi-AZ.

Type: Boolean

Required: No

### Response Elements

The following element is returned by the service.

#### DBInstance

Detailed information about an instance.

Type: [DBInstance](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBInstanceNotFound

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

### InvalidDBInstanceState

The specified instance isn't in the *available* state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RemoveFromGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Detaches an Amazon DocumentDB secondary cluster from a global cluster. The cluster becomes a standalone cluster with read-write capability instead of being read-only and receiving data from a primary in a different region.

## Note

This action only applies to Amazon DocumentDB clusters.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DbClusterIdentifier

The Amazon Resource Name (ARN) identifying the cluster that was detached from the Amazon DocumentDB global cluster.

Type: String

Required: Yes

### GlobalClusterIdentifier

The cluster identifier to detach from the Amazon DocumentDB global cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

## Response Elements

The following element is returned by the service.

## GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### GlobalClusterNotFoundFault

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

### InvalidGlobalClusterStateFault

The requested operation can't be performed while the cluster is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## RemoveSourceIdentifierFromSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Removes a source identifier from an existing Amazon DocumentDB event notification subscription.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### SourceIdentifier

The source identifier to be removed from the subscription, such as the instance identifier for an instance, or the name of a security group.

Type: String

Required: Yes

#### SubscriptionName

The name of the Amazon DocumentDB event notification subscription that you want to remove a source identifier from.

Type: String

Required: Yes

### Response Elements

The following element is returned by the service.

#### EventSubscription

Detailed information about an event to which you have subscribed.

Type: [EventSubscription](#) object

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## SourceNotFound

The requested source could not be found.

HTTP Status Code: 404

## SubscriptionNotFound

The subscription name does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## RemoveTagsFromResource

Service: Amazon DocumentDB (with MongoDB compatibility)

Removes metadata tags from an Amazon DocumentDB resource.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### ResourceName

The Amazon DocumentDB resource that the tags are removed from. This value is an Amazon Resource Name (ARN).

Type: String

Required: Yes

#### TagKeys.member.N

The tag key (name) of the tag to be removed.

Type: Array of strings

Required: Yes

### Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

#### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

#### DBInstanceNotFound

`DBInstanceIdentifier` doesn't refer to an existing instance.

HTTP Status Code: 404

#### DBSnapshotNotFound

`DBSnapshotIdentifier` doesn't refer to an existing snapshot.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ResetDBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Modifies the parameters of a cluster parameter group to the default value. To reset specific parameters, submit a list of the following: `ParameterName` and `ApplyMethod`. To reset the entire cluster parameter group, specify the `DBClusterParameterGroupName` and `ResetAllParameters` parameters.

When you reset the entire group, dynamic parameters are updated immediately and static parameters are set to `pending-reboot` to take effect on the next DB instance reboot.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### `DBClusterParameterGroupName`

The name of the cluster parameter group to reset.

Type: String

Required: Yes

### `Parameters.Parameter.N`

A list of parameter names in the cluster parameter group to reset to the default values. You can't use this parameter if the `ResetAllParameters` parameter is set to `true`.

Type: Array of [Parameter](#) objects

Required: No

### `ResetAllParameters`

A value that is set to `true` to reset all parameters in the cluster parameter group to their default values, and `false` otherwise. You can't use this parameter if there is a list of parameter names specified for the `Parameters` parameter.

Type: Boolean

Required: No

## Response Elements


The following element is returned by the service.

### DBClusterParameterGroupName

The name of a cluster parameter group.

Constraints:

- Must be from 1 to 255 letters or numbers.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

 **Note**

This value is stored as a lowercase string.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBParameterGroupNotFound

DBParameterGroupName doesn't refer to an existing parameter group.

HTTP Status Code: 404

### InvalidDBParameterGroupState

The parameter group is in use, or it is in a state that is not valid. If you are trying to delete the parameter group, you can't delete it when the parameter group is in this state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RestoreDBClusterFromSnapshot

Service: Amazon DocumentDB (with MongoDB compatibility)

Creates a new cluster from a snapshot or cluster snapshot.

If a snapshot is specified, the target cluster is created from the source DB snapshot with a default configuration and default security group.

If a cluster snapshot is specified, the target cluster is created from the source cluster restore point with the same configuration as the original source DB cluster, except that the new cluster is created with the default security group.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBClusterIdentifier

The name of the cluster to create from the snapshot or cluster snapshot. This parameter isn't case sensitive.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Example: my-snapshot-id

Type: String

Required: Yes

### Engine

The database engine to use for the new cluster.

Default: The same as source.

Constraint: Must be compatible with the engine of the source.

Type: String

Required: Yes

## SnapshotIdentifier

The identifier for the snapshot or cluster snapshot to restore from.

You can use either the name or the Amazon Resource Name (ARN) to specify a cluster snapshot. However, you can use only the ARN to specify a snapshot.

Constraints:

- Must match the identifier of an existing snapshot.

Type: String

Required: Yes

## AvailabilityZones.AvailabilityZone.N

Provides the list of Amazon EC2 Availability Zones that instances in the restored DB cluster can be created in.

Type: Array of strings

Required: No

## DBClusterParameterGroupName

The name of the DB cluster parameter group to associate with this DB cluster.

*Type:* String.    *Required:* No.

If this argument is omitted, the default DB cluster parameter group is used. If supplied, must match the name of an existing default DB cluster parameter group. The string must consist of from 1 to 255 letters, numbers or hyphens. Its first character must be a letter, and it cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: No

## DBSubnetGroupName

The name of the subnet group to use for the new cluster.

Constraints: If provided, must match the name of an existing DBSubnetGroup.

Example: mySubnetgroup

Type: String

Required: No

### **DeletionProtection**

Specifies whether this cluster can be deleted. If `DeletionProtection` is enabled, the cluster cannot be deleted unless it is modified and `DeletionProtection` is disabled. `DeletionProtection` protects clusters from being accidentally deleted.

Type: Boolean

Required: No

### **EnableCloudwatchLogsExports.member.N**

A list of log types that must be enabled for exporting to Amazon CloudWatch Logs.

Type: Array of strings

Required: No

### **EngineVersion**

The version of the database engine to use for the new cluster.

Type: String

Required: No

### **KmsKeyId**

The AWS KMS key identifier to use when restoring an encrypted cluster from a DB snapshot or cluster snapshot.

The AWS KMS key identifier is the Amazon Resource Name (ARN) for the AWS KMS encryption key. If you are restoring a cluster with the same AWS account that owns the AWS KMS encryption key used to encrypt the new cluster, then you can use the AWS KMS key alias instead of the ARN for the AWS KMS encryption key.

If you do not specify a value for the `KmsKeyId` parameter, then the following occurs:

- If the snapshot or cluster snapshot in `SnapshotIdentifier` is encrypted, then the restored cluster is encrypted using the AWS KMS key that was used to encrypt the snapshot or the cluster snapshot.

- If the snapshot or the cluster snapshot in `SnapshotIdentifier` is not encrypted, then the restored DB cluster is not encrypted.

Type: String

Required: No

## NetworkType

The network type of the cluster.

The network type is determined by the `DBSubnetGroup` specified for the cluster. A `DBSubnetGroup` can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

For more information, see [DocumentDB clusters in a VPC](#) in the Amazon DocumentDB Developer Guide.

Valid Values: IPV4 | DUAL

Type: String

Required: No

## Port

The port number on which the new cluster accepts connections.

Constraints: Must be a value from 1150 to 65535.

Default: The same port as the original cluster.

Type: Integer

Required: No

## ServerlessV2ScalingConfiguration

Contains the scaling configuration of an Amazon DocumentDB Serverless cluster.

Type: [ServerlessV2ScalingConfiguration](#) object

Required: No

## StorageType

The storage type to associate with the DB cluster.

For information on storage types for Amazon DocumentDB clusters, see [Cluster storage configurations](#) in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - standard | iopt1

Default value is standard

Type: String

Required: No

### **Tags.Tag.N**

The tags to be assigned to the restored cluster.

Type: Array of [Tag](#) objects

Required: No

### **VpcSecurityGroupIds.VpcSecurityGroupId.N**

A list of virtual private cloud (VPC) security groups that the new cluster will belong to.

Type: Array of strings

Required: No

## **Response Elements**

The following element is returned by the service.

### **DBCluster**

Detailed information about a cluster.

Type: [DBCluster](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **DBClusterAlreadyExistsFault**

You already have a cluster with the given identifier.

HTTP Status Code: 400

### **DBClusterQuotaExceededFault**

The cluster can't be created because you have reached the maximum allowed quota of clusters.

HTTP Status Code: 403

### **DBClusterSnapshotNotFoundFault**

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

### **DBSnapshotNotFound**

`DBSnapshotIdentifier` doesn't refer to an existing snapshot.

HTTP Status Code: 404

### **DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

### **DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

### **InsufficientDBClusterCapacityFault**

The cluster doesn't have enough capacity for the current operation.

HTTP Status Code: 403

### **InsufficientStorageClusterCapacity**

There is not enough storage available for the current action. You might be able to resolve this error by updating your subnet group to use different Availability Zones that have more storage available.

HTTP Status Code: 400

### **InvalidDBClusterSnapshotStateFault**

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

### **InvalidDBSnapshotState**

The state of the snapshot doesn't allow deletion.

HTTP Status Code: 400

### **InvalidRestoreFault**

You cannot restore from a virtual private cloud (VPC) backup to a non-VPC DB instance.

HTTP Status Code: 400

### **InvalidSubnet**

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

### **InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

### **KMSKeyNotAccessibleFault**

An error occurred when accessing an AWS KMS key.

HTTP Status Code: 400

### **NetworkTypeNotSupported**

The network type is not supported by either DBSubnetGroup or the DB engine version.

HTTP Status Code: 400

### **StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

## StorageQuotaExceeded

The request would cause you to exceed the allowed amount of storage available across all instances.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## RestoreDBClusterToPointInTime

Service: Amazon DocumentDB (with MongoDB compatibility)

Restores a cluster to an arbitrary point in time. Users can restore to any point in time before `LatestRestorableTime` for up to `BackupRetentionPeriod` days. The target cluster is created from the source cluster with the same configuration as the original cluster, except that the new cluster is created with the default security group.

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

#### DBClusterIdentifier

The name of the new cluster to be created.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

Type: String

Required: Yes

#### SourceDBClusterIdentifier

The identifier of the source cluster from which to restore.

Constraints:

- Must match the identifier of an existing `DBCluster`.

Type: String

Required: Yes

#### DBSubnetGroupName

The subnet group name to use for the new cluster.

Constraints: If provided, must match the name of an existing `DBSubnetGroup`.

Example: `mySubnetgroup`

Type: String

Required: No

### **DeletionProtection**

Specifies whether this cluster can be deleted. If `DeletionProtection` is enabled, the cluster cannot be deleted unless it is modified and `DeletionProtection` is disabled. `DeletionProtection` protects clusters from being accidentally deleted.

Type: Boolean

Required: No

### **EnableCloudwatchLogsExports.member.N**

A list of log types that must be enabled for exporting to Amazon CloudWatch Logs.

Type: Array of strings

Required: No

### **KmsKeyId**

The AWS KMS key identifier to use when restoring an encrypted cluster from an encrypted cluster.

The AWS KMS key identifier is the Amazon Resource Name (ARN) for the AWS KMS encryption key. If you are restoring a cluster with the same AWS account that owns the AWS KMS encryption key used to encrypt the new cluster, then you can use the AWS KMS key alias instead of the ARN for the AWS KMS encryption key.

You can restore to a new cluster and encrypt the new cluster with an AWS KMS key that is different from the AWS KMS key used to encrypt the source cluster. The new DB cluster is encrypted with the AWS KMS key identified by the `KmsKeyId` parameter.

If you do not specify a value for the `KmsKeyId` parameter, then the following occurs:

- If the cluster is encrypted, then the restored cluster is encrypted using the AWS KMS key that was used to encrypt the source cluster.
- If the cluster is not encrypted, then the restored cluster is not encrypted.

If `DBClusterIdentifier` refers to a cluster that is not encrypted, then the restore request is rejected.

Type: String

Required: No

### NetworkType

The network type of the cluster.

The network type is determined by the DBSubnetGroup specified for the cluster. A DBSubnetGroup can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

For more information, see [DocumentDB clusters in a VPC](#) in the Amazon DocumentDB Developer Guide.

Valid Values: IPV4 | DUAL

Type: String

Required: No

### Port

The port number on which the new cluster accepts connections.

Constraints: Must be a value from 1150 to 65535.

Default: The default port for the engine.

Type: Integer

Required: No

### RestoreToTime

The date and time to restore the cluster to.

Valid values: A time in Universal Coordinated Time (UTC) format.

Constraints:

- Must be before the latest restorable time for the instance.
- Must be specified if the `UseLatestRestorableTime` parameter is not provided.
- Cannot be specified if the `UseLatestRestorableTime` parameter is `true`.
- Cannot be specified if the `RestoreType` parameter is `copy-on-write`.

Example: 2015-03-07T23:45:00Z

Type: Timestamp

Required: No

## RestoreType

The type of restore to be performed. You can specify one of the following values:

- `full-copy` - The new DB cluster is restored as a full copy of the source DB cluster.
- `copy-on-write` - The new DB cluster is restored as a clone of the source DB cluster.

Constraints: You can't specify `copy-on-write` if the engine version of the source DB cluster is earlier than 1.11.

If you don't specify a `RestoreType` value, then the new DB cluster is restored as a full copy of the source DB cluster.

Type: String

Required: No

## ServerlessV2ScalingConfiguration

Contains the scaling configuration of an Amazon DocumentDB Serverless cluster.

Type: [ServerlessV2ScalingConfiguration](#) object

Required: No

## StorageType

The storage type to associate with the DB cluster.

For information on storage types for Amazon DocumentDB clusters, see Cluster storage configurations in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - `standard` | `iopt1`

Default value is `standard`

Type: String

Required: No

## Tags.Tag.N

The tags to be assigned to the restored cluster.

Type: Array of [Tag](#) objects

Required: No

## UseLatestRestorableTime

A value that is set to `true` to restore the cluster to the latest restorable backup time, and `false` otherwise.

Default: `false`

Constraints: Cannot be specified if the `RestoreToTime` parameter is provided.

Type: Boolean

Required: No

## VpcSecurityGroupIds.VpcSecurityGroupId.N

A list of VPC security groups that the new cluster belongs to.

Type: Array of strings

Required: No

## Response Elements

The following element is returned by the service.

### DBCluster

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

**DBClusterAlreadyExistsFault**

You already have a cluster with the given identifier.

HTTP Status Code: 400

**DBClusterNotFoundFault**

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

**DBClusterQuotaExceededFault**

The cluster can't be created because you have reached the maximum allowed quota of clusters.

HTTP Status Code: 403

**DBClusterSnapshotNotFoundFault**

`DBClusterSnapshotIdentifier` doesn't refer to an existing cluster snapshot.

HTTP Status Code: 404

**DBSubnetGroupNotFoundFault**

`DBSubnetGroupName` doesn't refer to an existing subnet group.

HTTP Status Code: 404

**InsufficientDBClusterCapacityFault**

The cluster doesn't have enough capacity for the current operation.

HTTP Status Code: 403

**InsufficientStorageClusterCapacity**

There is not enough storage available for the current action. You might be able to resolve this error by updating your subnet group to use different Availability Zones that have more storage available.

HTTP Status Code: 400

**InvalidDBClusterSnapshotStateFault**

The provided value isn't a valid cluster snapshot state.

HTTP Status Code: 400

**InvalidDBClusterStateFault**

The cluster isn't in a valid state.

HTTP Status Code: 400

**InvalidDBSnapshotState**

The state of the snapshot doesn't allow deletion.

HTTP Status Code: 400

**InvalidRestoreFault**

You cannot restore from a virtual private cloud (VPC) backup to a non-VPC DB instance.

HTTP Status Code: 400

**InvalidSubnet**

The requested subnet is not valid, or multiple subnets were requested that are not all in a common virtual private cloud (VPC).

HTTP Status Code: 400

**InvalidVPCNetworkStateFault**

The subnet group doesn't cover all Availability Zones after it is created because of changes that were made.

HTTP Status Code: 400

**KMSKeyNotAccessibleFault**

An error occurred when accessing an AWS KMS key.

HTTP Status Code: 400

**NetworkTypeNotSupported**

The network type is not supported by either DBSubnetGroup or the DB engine version.

HTTP Status Code: 400

**StorageQuotaExceeded**

The request would cause you to exceed the allowed amount of storage available across all instances.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Restarts the stopped cluster that is specified by `DBClusterIdentifier`. For more information, see [Stopping and Starting an Amazon DocumentDB Cluster](#).

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### `DBClusterIdentifier`

The identifier of the cluster to restart. Example: `docdb-2019-05-28-15-24-52`

Type: String

Required: Yes

## Response Elements

The following element is returned by the service.

### `DBCluster`

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### `DBClusterNotFoundFault`

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### `InvalidDBClusterStateFault`

The cluster isn't in a valid state.

HTTP Status Code: 400

## InvalidDBInstanceState

The specified instance isn't in the *available* state.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StopDBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Stops the running cluster that is specified by `DBClusterIdentifier`. The cluster must be in the *available* state. For more information, see [Stopping and Starting an Amazon DocumentDB Cluster](#).

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### DBClusterIdentifier

The identifier of the cluster to stop. Example: `docdb-2019-05-28-15-24-52`

Type: String

Required: Yes

## Response Elements

The following element is returned by the service.

### DBCluster

Detailed information about a cluster.

Type: [DBCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### **InvalidDBInstanceState**

The specified instance isn't in the *available* state.

HTTP Status Code: 400

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# SwitchoverGlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Switches over the specified secondary Amazon DocumentDB cluster to be the new primary Amazon DocumentDB cluster in the global database cluster.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

### GlobalClusterIdentifier

The identifier of the Amazon DocumentDB global database cluster to switch over. The identifier is the unique key assigned by the user when the cluster is created. In other words, it's the name of the global cluster. This parameter isn't case-sensitive.

Constraints:

- Must match the identifier of an existing global cluster (Amazon DocumentDB global database).
- Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### TargetDbClusterIdentifier

The identifier of the secondary Amazon DocumentDB cluster to promote to the new primary for the global database cluster. Use the Amazon Resource Name (ARN) for the identifier so that Amazon DocumentDB can locate the cluster in its AWS region.

Constraints:

- Must match the identifier of an existing secondary cluster.
- Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z- : . _]*`

Required: Yes

## Response Elements

The following element is returned by the service.

### GlobalCluster

A data type representing an Amazon DocumentDB global cluster.

Type: [GlobalCluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### DBClusterNotFoundFault

`DBClusterIdentifier` doesn't refer to an existing cluster.

HTTP Status Code: 404

### GlobalClusterNotFoundFault

The `GlobalClusterIdentifier` doesn't refer to an existing global cluster.

HTTP Status Code: 404

### InvalidDBClusterStateFault

The cluster isn't in a valid state.

HTTP Status Code: 400

### InvalidGlobalClusterStateFault

The requested operation can't be performed while the cluster is in this state.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## Amazon DocumentDB Elastic Clusters

The following actions are supported by Amazon DocumentDB Elastic Clusters:

- [ApplyPendingMaintenanceAction](#)
- [CopyClusterSnapshot](#)
- [CreateCluster](#)
- [CreateClusterSnapshot](#)
- [DeleteCluster](#)
- [DeleteClusterSnapshot](#)
- [GetCluster](#)
- [GetClusterSnapshot](#)
- [GetPendingMaintenanceAction](#)
- [ListClusters](#)
- [ListClusterSnapshots](#)

- [ListPendingMaintenanceActions](#)
- [ListTagsForResource](#)
- [RestoreClusterFromSnapshot](#)
- [StartCluster](#)
- [StopCluster](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateCluster](#)

# ApplyPendingMaintenanceAction

Service: Amazon DocumentDB Elastic Clusters

The type of pending maintenance action to be applied to the resource.

## Request Syntax

```
POST /pending-action HTTP/1.1
Content-type: application/json
```

```
{
  "applyAction": "string",
  "applyOn": "string",
  "optInType": "string",
  "resourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### applyAction

The pending maintenance action to apply to the resource.

Valid actions are:

- ENGINE\_UPDATE
- ENGINE\_UPGRADE
- SECURITY\_UPDATE
- OS\_UPDATE
- MASTER\_USER\_PASSWORD\_UPDATE

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

### optInType

A value that specifies the type of opt-in request, or undoes an opt-in request. An opt-in request of type IMMEDIATE can't be undone.

Type: String

Valid Values: IMMEDIATE | NEXT\_MAINTENANCE | APPLY\_ON | UNDO\_OPT\_IN

Required: Yes

### resourceArn

The Amazon DocumentDB Amazon Resource Name (ARN) of the resource to which the pending maintenance action applies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

### applyOn

A specific date to apply the pending maintenance action. Required if opt-in-type is APPLY\_ON.

Format: yyyy/MM/dd HH:mm-yyy/MM/dd HH:mm

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "resourcePendingMaintenanceAction": {
    "pendingMaintenanceActionDetails": [
      {
```

```
    "action": "string",
    "autoAppliedAfterDate": "string",
    "currentApplyDate": "string",
    "description": "string",
    "forcedApplyDate": "string",
    "optInStatus": "string"
  }
],
"resourceArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### resourcePendingMaintenanceAction

The output of the pending maintenance action being applied.

Type: [ResourcePendingMaintenanceAction](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

**resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

**InternalServerError**

There was an internal server error.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource could not be located.

**message**

An error message describing the failure.

**resourceId**

The ID of the resource that could not be located.

**resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

A structure defining a validation exception.

**fieldList**

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

## reason

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or other).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CopyClusterSnapshot

Service: Amazon DocumentDB Elastic Clusters

Copies a snapshot of an elastic cluster.

## Request Syntax

```
POST /cluster-snapshot/snapshotArn/copy HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "copyTags": boolean,
  "kmsKeyId": "string",
  "tags": {
    "string" : "string"
  },
  "targetSnapshotName": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### snapshotArn

The Amazon Resource Name (ARN) identifier of the elastic cluster snapshot.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### targetSnapshotName

The identifier of the new elastic cluster snapshot to create from the source cluster snapshot.

This parameter is not case sensitive.

Constraints:

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.

- Cannot end with a hyphen or contain two consecutive hyphens.

Example: elastic-cluster-snapshot-5

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Required: Yes

### copyTags

Set to `true` to copy all tags from the source cluster snapshot to the target elastic cluster snapshot. The default is `false`.

Type: Boolean

Required: No

### kmsKeyId

The AWS KMS key ID for an encrypted elastic cluster snapshot. The AWS KMS key ID is the Amazon Resource Name (ARN), AWS KMS key identifier, or the AWS KMS key alias for the AWS KMS encryption key.

If you copy an encrypted elastic cluster snapshot from your AWS account, you can specify a value for `KmsKeyId` to encrypt the copy with a new AWS KMS encryption key. If you don't specify a value for `KmsKeyId`, then the copy of the elastic cluster snapshot is encrypted with the same AWS KMS key as the source elastic cluster snapshot.

If you copy an unencrypted elastic cluster snapshot and specify a value for the `KmsKeyId` parameter, an error is returned.

Type: String

Required: No

### tags

The tags to be assigned to the elastic cluster snapshot.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "snapshot": {
    "adminUserName": "string",
    "clusterArn": "string",
    "clusterCreationTime": "string",
    "kmsKeyId": "string",
    "snapshotArn": "string",
    "snapshotCreationTime": "string",
    "snapshotName": "string",
    "snapshotType": "string",
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcSecurityGroupIds": [ "string" ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### snapshot

Returns information about a specific elastic cluster snapshot.

Type: [ClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

An exception that occurs when there are not sufficient permissions to perform an action.

### message

An error message explaining why access was denied.

HTTP Status Code: 403

## ConflictException

There was an access conflict.

### resourceId

The ID of the resource where there was an access conflict.

### resourceType

The type of the resource where there was an access conflict.

HTTP Status Code: 409

## InternalServerError

There was an internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource could not be located.

### message

An error message describing the failure.

### resourceId

The ID of the resource that could not be located.

### resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

## ServiceQuotaExceededException

The service quota for the action was exceeded.

HTTP Status Code: 402

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

#### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateCluster

Service: Amazon DocumentDB Elastic Clusters

Creates a new Amazon DocumentDB elastic cluster and returns its cluster structure.

## Request Syntax

```
POST /cluster HTTP/1.1
Content-type: application/json

{
  "adminUserName": "string",
  "adminUserPassword": "string",
  "authType": "string",
  "backupRetentionPeriod": number,
  "clientToken": "string",
  "clusterName": "string",
  "kmsKeyId": "string",
  "preferredBackupWindow": "string",
  "preferredMaintenanceWindow": "string",
  "shardCapacity": number,
  "shardCount": number,
  "shardInstanceCount": number,
  "subnetIds": [ "string" ],
  "tags": {
    "string" : "string"
  },
  "vpcSecurityGroupIds": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### adminUserName

The name of the Amazon DocumentDB elastic clusters administrator.

*Constraints:*

- Must be from 1 to 63 letters or numbers.
- The first character must be a letter.
- Cannot be a reserved word.

Type: String

Required: Yes

### adminUserPassword

The password for the Amazon DocumentDB elastic clusters administrator. The password can contain any printable ASCII characters.

*Constraints:*

- Must contain from 8 to 100 characters.
- Cannot contain a forward slash (/), double quote ("), or the "at" symbol (@).

Type: String

Required: Yes

### authType

The authentication type used to determine where to fetch the password used for accessing the elastic cluster. Valid types are PLAIN\_TEXT or SECRET\_ARN.

Type: String

Valid Values: PLAIN\_TEXT | SECRET\_ARN

Required: Yes

### clusterName

The name of the new elastic cluster. This parameter is stored as a lowercase string.

*Constraints:*

- Must contain from 1 to 63 letters, numbers, or hyphens.
- The first character must be a letter.
- Cannot end with a hyphen or contain two consecutive hyphens.

*Example:* my-cluster

Type: String

Required: Yes

### shardCapacity

The number of vCPUs assigned to each elastic cluster shard. Maximum is 64. Allowed values are 2, 4, 8, 16, 32, 64.

Type: Integer

Required: Yes

### shardCount

The number of shards assigned to the elastic cluster. Maximum is 32.

Type: Integer

Required: Yes

### backupRetentionPeriod

The number of days for which automatic snapshots are retained.

Type: Integer

Required: No

### clientToken

The client token for the elastic cluster.

Type: String

Required: No

### kmsKeyId

The KMS key identifier to use to encrypt the new elastic cluster.

The KMS key identifier is the Amazon Resource Name (ARN) for the KMS encryption key. If you are creating a cluster using the same Amazon account that owns this KMS encryption key, you can use the KMS key alias instead of the ARN as the KMS encryption key.

If an encryption key is not specified, Amazon DocumentDB uses the default encryption key that KMS creates for your account. Your account has a different default encryption key for each Amazon Region.

Type: String

Required: No

### preferredBackupWindow

The daily time range during which automated backups are created if automated backups are enabled, as determined by the `backupRetentionPeriod`.

Type: String

Required: No

### preferredMaintenanceWindow

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

*Format:* ddd:hh24:mi-ddd:hh24:mi

*Default:* a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

*Valid days:* Mon, Tue, Wed, Thu, Fri, Sat, Sun

*Constraints:* Minimum 30-minute window.

Type: String

Required: No

### shardInstanceCount

The number of replica instances applying to all shards in the elastic cluster. A `shardInstanceCount` value of 1 means there is one writer instance, and any additional instances are replicas that can be used for reads and to improve availability.

Type: Integer

Required: No

## subnetIds

The Amazon EC2 subnet IDs for the new elastic cluster.

Type: Array of strings

Required: No

## tags

The tags to be assigned to the new elastic cluster.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## vpcSecurityGroupIds

A list of EC2 VPC security groups to associate with the new elastic cluster.

Type: Array of strings

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
```

```

    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
    "shardCount": number,
    "shardInstanceCount": number,
    "shards": [
      {
        "createTime": "string",
        "shardId": "string",
        "status": "string"
      }
    ],
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcSecurityGroupIds": [ "string" ]
  }
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

The new elastic cluster that has been created.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

An exception that occurs when there are not sufficient permissions to perform an action.

#### message

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

#### **resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

### **InternalServerErrorException**

There was an internal server error.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The service quota for the action was exceeded.

HTTP Status Code: 402

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or other).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateClusterSnapshot

Service: Amazon DocumentDB Elastic Clusters

Creates a snapshot of an elastic cluster.

## Request Syntax

```
POST /cluster-snapshot HTTP/1.1
Content-type: application/json
```

```
{
  "clusterArn": "string",
  "snapshotName": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clusterArn

The ARN identifier of the elastic cluster of which you want to create a snapshot.

Type: String

Required: Yes

### snapshotName

The name of the new elastic cluster snapshot.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Required: Yes

## tags

The tags to be assigned to the new elastic cluster snapshot.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-. \_:/]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "snapshot": {
    "adminUserName": "string",
    "clusterArn": "string",
    "clusterCreationTime": "string",
    "kmsKeyId": "string",
    "snapshotArn": "string",
    "snapshotCreationTime": "string",
    "snapshotName": "string",
    "snapshotType": "string",
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcSecurityGroupIds": [ "string" ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## snapshot

Returns information about the new elastic cluster snapshot.

Type: [ClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

#### **resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource could not be located.

#### **message**

An error message describing the failure.

**resourceId**

The ID of the resource that could not be located.

**resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The service quota for the action was exceeded.

HTTP Status Code: 402

**ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

A structure defining a validation exception.

**fieldList**

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCluster

Service: Amazon DocumentDB Elastic Clusters

Delete an elastic cluster.

## Request Syntax

```
DELETE /cluster/clusterArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster that is to be deleted.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
```

```
"shardCount": number,
"shardInstanceCount": number,
"shards": [
  {
    "createTime": "string",
    "shardId": "string",
    "status": "string"
  }
],
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about the newly deleted elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

**resourceId**

The ID of the resource where there was an access conflict.

**resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

**InternalServerError**

There was an internal server error.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource could not be located.

**message**

An error message describing the failure.

**resourceId**

The ID of the resource that could not be located.

**resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

A structure defining a validation exception.

**fieldList**

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or other).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteClusterSnapshot

Service: Amazon DocumentDB Elastic Clusters

Delete an elastic cluster snapshot.

## Request Syntax

```
DELETE /cluster-snapshot/snapshotArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### snapshotArn

The ARN identifier of the elastic cluster snapshot that is to be deleted.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "snapshot": {
    "adminUserName": "string",
    "clusterArn": "string",
    "clusterCreationTime": "string",
    "kmsKeyId": "string",
    "snapshotArn": "string",
    "snapshotCreationTime": "string",
    "snapshotName": "string",
    "snapshotType": "string",
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcSecurityGroupIds": [ "string" ]
  }
}
```

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### snapshot

Returns information about the newly deleted elastic cluster snapshot.

Type: [ClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

#### **resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource could not be located.

#### **message**

An error message describing the failure.

#### **resourceId**

The ID of the resource that could not be located.

#### **resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

#### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCluster

Service: Amazon DocumentDB Elastic Clusters

Returns information about a specific elastic cluster.

## Request Syntax

```
GET /cluster/clusterArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
```

```
"shardCount": number,
"shardInstanceCount": number,
"shards": [
  {
    "createTime": "string",
    "shardId": "string",
    "status": "string"
  }
],
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about a specific elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource could not be located.

#### **message**

An error message describing the failure.

#### **resourceId**

The ID of the resource that could not be located.

#### **resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

#### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetClusterSnapshot

Service: Amazon DocumentDB Elastic Clusters

Returns information about a specific elastic cluster snapshot

## Request Syntax

```
GET /cluster-snapshot/snapshotArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### snapshotArn

The ARN identifier of the elastic cluster snapshot.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "snapshot": {
    "adminUserName": "string",
    "clusterArn": "string",
    "clusterCreationTime": "string",
    "kmsKeyId": "string",
    "snapshotArn": "string",
    "snapshotCreationTime": "string",
    "snapshotName": "string",
    "snapshotType": "string",
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcSecurityGroupIds": [ "string" ]
  }
}
```

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### snapshot

Returns information about a specific elastic cluster snapshot.

Type: [ClusterSnapshot](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource could not be located.

#### **message**

An error message describing the failure.

#### **resourceId**

The ID of the resource that could not be located.

**resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

A structure defining a validation exception.

**fieldList**

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPendingMaintenanceAction

Service: Amazon DocumentDB Elastic Clusters

Retrieves all maintenance actions that are pending.

## Request Syntax

```
GET /pending-action/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

Retrieves pending maintenance actions for a specific Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "resourcePendingMaintenanceAction": {
    "pendingMaintenanceActionDetails": [
      {
        "action": "string",
        "autoAppliedAfterDate": "string",
        "currentApplyDate": "string",
        "description": "string",
        "forcedApplyDate": "string",
        "optInStatus": "string"
      }
    ]
  }
}
```

```
    ],  
    "resourceArn": "string"  
  }  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### resourcePendingMaintenanceAction

Provides information about a pending maintenance action for a resource.

Type: [ResourcePendingMaintenanceAction](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

An exception that occurs when there are not sufficient permissions to perform an action.

#### message

An error message explaining why access was denied.

HTTP Status Code: 403

### ConflictException

There was an access conflict.

#### resourceId

The ID of the resource where there was an access conflict.

#### resourceType

The type of the resource where there was an access conflict.

HTTP Status Code: 409

## InternalServerErrorException

There was an internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource could not be located.

### **message**

An error message describing the failure.

### **resourceId**

The ID of the resource that could not be located.

### **resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### **fieldList**

A list of the fields in which the validation exception occurred.

### **message**

An error message describing the validation exception.

### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListClusters

Service: Amazon DocumentDB Elastic Clusters

Returns information about provisioned Amazon DocumentDB elastic clusters.

## Request Syntax

```
GET /clusters?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of elastic cluster snapshot results to receive in the response.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

A pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond this token, up to the value specified by `max-results`.

If there is no more data in the response, the `nextToken` will not be returned.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "clusters": [
    {
      "clusterArn": "string",
      "clusterName": "string",
      "status": "string"
    }
  ]
}
```

```
  ],  
  "nextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### clusters

A list of Amazon DocumentDB elastic clusters.

Type: Array of [ClusterInList](#) objects

### nextToken

A pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond this token, up to the value specified by `max-results`.

If there is no more data in the response, the `nextToken` will not be returned.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

## ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### fieldList

A list of the fields in which the validation exception occurred.

### message

An error message describing the validation exception.

### reason

The reason why the validation exception occurred (one of unknownOperation, cannotParse, fieldValueValidationFailed, or other).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListClusterSnapshots

Service: Amazon DocumentDB Elastic Clusters

Returns information about snapshots for a specified elastic cluster.

## Request Syntax

```
GET /cluster-snapshots?  
clusterArn=clusterArn&maxResults=maxResults&nextToken=nextToken&snapshotType=snapshotType  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster.

### maxResults

The maximum number of elastic cluster snapshot results to receive in the response.

Valid Range: Minimum value of 20. Maximum value of 100.

### nextToken

A pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond this token, up to the value specified by `max-results`.

If there is no more data in the response, the `nextToken` will not be returned.

### snapshotType

The type of cluster snapshots to be returned. You can specify one of the following values:

- `automated` - Return all cluster snapshots that Amazon DocumentDB has automatically created for your AWS account.
- `manual` - Return all cluster snapshots that you have manually created for your AWS account.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "snapshots": [
    {
      "clusterArn": "string",
      "snapshotArn": "string",
      "snapshotCreationTime": "string",
      "snapshotName": "string",
      "status": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

A pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond this token, up to the value specified by `max-results`.

If there is no more data in the response, the `nextToken` will not be returned.

Type: String

### snapshots

A list of snapshots for a specified elastic cluster.

Type: Array of [ClusterSnapshotInList](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

An exception that occurs when there are not sufficient permissions to perform an action.

### message

An error message explaining why access was denied.

HTTP Status Code: 403

## InternalServerError

There was an internal server error.

HTTP Status Code: 500

## ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### fieldList

A list of the fields in which the validation exception occurred.

### message

An error message describing the validation exception.

### reason

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListPendingMaintenanceActions

Service: Amazon DocumentDB Elastic Clusters

Retrieves a list of all maintenance actions that are pending.

## Request Syntax

```
GET /pending-actions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results to include in the response. If more records exist than the specified `maxResults` value, a pagination token (marker) is included in the response so that the remaining results can be retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `maxResults`.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourcePendingMaintenanceActions": [
    {
      "pendingMaintenanceActionDetails": [
        {
```

```
        "action": "string",
        "autoAppliedAfterDate": "string",
        "currentApplyDate": "string",
        "description": "string",
        "forcedApplyDate": "string",
        "optInStatus": "string"
    }
],
"resourceArn": "string"
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### resourcePendingMaintenanceActions

Provides information about a pending maintenance action for a resource.

Type: Array of [ResourcePendingMaintenanceAction](#) objects

### nextToken

An optional pagination token provided by a previous request. If this parameter is displayed, the responses will include only records beyond the marker, up to the value specified by `maxResults`.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

#### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ListTagsForResource

Service: Amazon DocumentDB Elastic Clusters

Lists all tags on a elastic cluster resource

### Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

### URI Request Parameters

The request uses the following URI parameters.

#### resourceArn

The ARN identifier of the elastic cluster resource.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

### Request Body

The request does not have a request body.

### Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## tags

The list of tags for the specified elastic cluster resource.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

There was an internal server error.

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource could not be located.

#### message

An error message describing the failure.

#### resourceId

The ID of the resource that could not be located.

#### resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

### ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

#### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### fieldList

A list of the fields in which the validation exception occurred.

### message

An error message describing the validation exception.

### reason

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RestoreClusterFromSnapshot

Service: Amazon DocumentDB Elastic Clusters

Restores an elastic cluster from a snapshot.

## Request Syntax

```
POST /cluster-snapshot/snapshotArn/restore HTTP/1.1
Content-type: application/json
```

```
{
  "clusterName": "string",
  "kmsKeyId": "string",
  "shardCapacity": number,
  "shardInstanceCount": number,
  "subnetIds": [ "string" ],
  "tags": {
    "string" : "string"
  },
  "vpcSecurityGroupIds": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### snapshotArn

The ARN identifier of the elastic cluster snapshot.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clusterName

The name of the elastic cluster.

Type: String

Required: Yes

### kmsKeyId

The KMS key identifier to use to encrypt the new Amazon DocumentDB elastic clusters cluster.

The KMS key identifier is the Amazon Resource Name (ARN) for the KMS encryption key. If you are creating a cluster using the same Amazon account that owns this KMS encryption key, you can use the KMS key alias instead of the ARN as the KMS encryption key.

If an encryption key is not specified here, Amazon DocumentDB uses the default encryption key that KMS creates for your account. Your account has a different default encryption key for each Amazon Region.

Type: String

Required: No

### shardCapacity

The capacity of each shard in the new restored elastic cluster.

Type: Integer

Required: No

### shardInstanceCount

The number of replica instances applying to all shards in the elastic cluster. A `shardInstanceCount` value of 1 means there is one writer instance, and any additional instances are replicas that can be used for reads and to improve availability.

Type: Integer

Required: No

### subnetIds

The Amazon EC2 subnet IDs for the elastic cluster.

Type: Array of strings

Required: No

## tags

A list of the tag names to be assigned to the restored elastic cluster, in the form of an array of key-value pairs in which the key is the tag name and the value is the key value.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-.\_: /]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## vpcSecurityGroupIds

A list of EC2 VPC security groups to associate with the elastic cluster.

Type: Array of strings

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
    "shardCount": number,
    "shardInstanceCount": number,
    "shards": [
```

```
{
  {
    "createTime": "string",
    "shardId": "string",
    "status": "string"
  }
],
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about a the restored elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

**resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

**InternalServerError**

There was an internal server error.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource could not be located.

**message**

An error message describing the failure.

**resourceId**

The ID of the resource that could not be located.

**resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The service quota for the action was exceeded.

HTTP Status Code: 402

**ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

A structure defining a validation exception.

**fieldList**

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartCluster

Service: Amazon DocumentDB Elastic Clusters

Restarts the stopped elastic cluster that is specified by `clusterArn`.

## Request Syntax

```
POST /cluster/clusterArn/start HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
```

```
"shardCount": number,
"shardInstanceCount": number,
"shards": [
  {
    "createTime": "string",
    "shardId": "string",
    "status": "string"
  }
],
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about a specific elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **InternalServerError**

There was an internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource could not be located.

#### **message**

An error message describing the failure.

#### **resourceId**

The ID of the resource that could not be located.

#### **resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

### **ThrottlingException**

ThrottlingException will be thrown when request was denied due to request throttling.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

A structure defining a validation exception.

#### **fieldList**

A list of the fields in which the validation exception occurred.

#### **message**

An error message describing the validation exception.

#### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StopCluster

Service: Amazon DocumentDB Elastic Clusters

Stops the running elastic cluster that is specified by `clusterArn`. The elastic cluster must be in the *available* state.

## Request Syntax

```
POST /cluster/clusterArn/stop HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
```

```
"preferredMaintenanceWindow": "string",
"shardCapacity": number,
"shardCount": number,
"shardInstanceCount": number,
"shards": [
  {
    "createTime": "string",
    "shardId": "string",
    "status": "string"
  }
],
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about a specific elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

An exception that occurs when there are not sufficient permissions to perform an action.

#### message

An error message explaining why access was denied.

HTTP Status Code: 403

## InternalServerErrorException

There was an internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource could not be located.

### message

An error message describing the failure.

### resourceId

The ID of the resource that could not be located.

### resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### fieldList

A list of the fields in which the validation exception occurred.

### message

An error message describing the validation exception.

### reason

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Service: Amazon DocumentDB Elastic Clusters

Adds metadata tags to an elastic cluster resource

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The ARN identifier of the elastic cluster resource.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags that are assigned to the elastic cluster resource.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

There was an internal server error.

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource could not be located.

#### message

An error message describing the failure.

#### resourceId

The ID of the resource that could not be located.

#### resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

### ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

A structure defining a validation exception.

### **fieldList**

A list of the fields in which the validation exception occurred.

### **message**

An error message describing the validation exception.

### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or other).

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UntagResource

Service: Amazon DocumentDB Elastic Clusters

Removes metadata tags from an elastic cluster resource

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The ARN identifier of the elastic cluster resource.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

### tagKeys

The tag keys to be removed from the elastic cluster resource.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (?!aws:)[a-zA-Z+--=.\_:/]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

There was an internal server error.

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource could not be located.

#### message

An error message describing the failure.

#### resourceId

The ID of the resource that could not be located.

#### resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

### ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

#### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

A structure defining a validation exception.

#### fieldList

A list of the fields in which the validation exception occurred.

**message**

An error message describing the validation exception.

**reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or other).

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateCluster

Service: Amazon DocumentDB Elastic Clusters

Modifies an elastic cluster. This includes updating admin-username/password, upgrading the API version, and setting up a backup window and maintenance window

## Request Syntax

```
PUT /cluster/clusterArn HTTP/1.1
Content-type: application/json

{
  "adminUserPassword": "string",
  "authType": "string",
  "backupRetentionPeriod": number,
  "clientToken": "string",
  "preferredBackupWindow": "string",
  "preferredMaintenanceWindow": "string",
  "shardCapacity": number,
  "shardCount": number,
  "shardInstanceCount": number,
  "subnetIds": [ "string" ],
  "vpcSecurityGroupIds": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### clusterArn

The ARN identifier of the elastic cluster.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## adminUserPassword

The password associated with the elastic cluster administrator. This password can contain any printable ASCII character except forward slash (/), double quote ("), or the "at" symbol (@).

*Constraints:* Must contain from 8 to 100 characters.

Type: String

Required: No

## authType

The authentication type used to determine where to fetch the password used for accessing the elastic cluster. Valid types are PLAIN\_TEXT or SECRET\_ARN.

Type: String

Valid Values: PLAIN\_TEXT | SECRET\_ARN

Required: No

## backupRetentionPeriod

The number of days for which automatic snapshots are retained.

Type: Integer

Required: No

## clientToken

The client token for the elastic cluster.

Type: String

Required: No

## preferredBackupWindow

The daily time range during which automated backups are created if automated backups are enabled, as determined by the backupRetentionPeriod.

Type: String

Required: No

## preferredMaintenanceWindow

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

*Format:* ddd:hh24:mi-ddd:hh24:mi

*Default:* a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

*Valid days:* Mon, Tue, Wed, Thu, Fri, Sat, Sun

*Constraints:* Minimum 30-minute window.

Type: String

Required: No

## shardCapacity

The number of vCPUs assigned to each elastic cluster shard. Maximum is 64. Allowed values are 2, 4, 8, 16, 32, 64.

Type: Integer

Required: No

## shardCount

The number of shards assigned to the elastic cluster. Maximum is 32.

Type: Integer

Required: No

## shardInstanceCount

The number of replica instances applying to all shards in the elastic cluster. A `shardInstanceCount` value of 1 means there is one writer instance, and any additional instances are replicas that can be used for reads and to improve availability.

Type: Integer

Required: No

## subnetIds

The Amazon EC2 subnet IDs for the elastic cluster.

Type: Array of strings

Required: No

## vpcSecurityGroupIds

A list of EC2 VPC security groups to associate with the elastic cluster.

Type: Array of strings

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cluster": {
    "adminUserName": "string",
    "authType": "string",
    "backupRetentionPeriod": number,
    "clusterArn": "string",
    "clusterEndpoint": "string",
    "clusterName": "string",
    "createTime": "string",
    "kmsKeyId": "string",
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "shardCapacity": number,
    "shardCount": number,
    "shardInstanceCount": number,
    "shards": [
      {
        "createTime": "string",
        "shardId": "string",
        "status": "string"
      }
    ],
  },
}
```

```
"status": "string",
"subnetIds": [ "string" ],
"vpcSecurityGroupIds": [ "string" ]
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cluster

Returns information about the updated elastic cluster.

Type: [Cluster](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

An exception that occurs when there are not sufficient permissions to perform an action.

#### **message**

An error message explaining why access was denied.

HTTP Status Code: 403

### **ConflictException**

There was an access conflict.

#### **resourceId**

The ID of the resource where there was an access conflict.

#### **resourceType**

The type of the resource where there was an access conflict.

HTTP Status Code: 409

## InternalServerErrorException

There was an internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource could not be located.

### **message**

An error message describing the failure.

### **resourceId**

The ID of the resource that could not be located.

### **resourceType**

The type of the resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

ThrottlingException will be thrown when request was denied due to request throttling.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

A structure defining a validation exception.

### **fieldList**

A list of the fields in which the validation exception occurred.

### **message**

An error message describing the validation exception.

### **reason**

The reason why the validation exception occurred (one of `unknownOperation`, `cannotParse`, `fieldValidationFailed`, or `other`).

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The following data types are supported by Amazon DocumentDB (with MongoDB compatibility):

- [AvailabilityZone](#)
- [Certificate](#)
- [CertificateDetails](#)
- [CloudwatchLogsExportConfiguration](#)
- [ClusterMasterUserSecret](#)
- [DBCluster](#)
- [DBClusterMember](#)
- [DBClusterParameterGroup](#)
- [DBClusterRole](#)
- [DBClusterSnapshot](#)
- [DBClusterSnapshotAttribute](#)
- [DBClusterSnapshotAttributesResult](#)
- [DBEngineVersion](#)
- [DBInstance](#)
- [DBInstanceStatusInfo](#)
- [DBSubnetGroup](#)
- [Endpoint](#)
- [EngineDefaults](#)
- [Event](#)
- [EventCategoriesMap](#)
- [EventSubscription](#)
- [FailoverState](#)
- [Filter](#)
- [GlobalCluster](#)
- [GlobalClusterMember](#)
- [OrderableDBInstanceOption](#)
- [Parameter](#)

- [PendingCloudwatchLogsExports](#)
- [PendingMaintenanceAction](#)
- [PendingModifiedValues](#)
- [ResourcePendingMaintenanceActions](#)
- [ServerlessV2FeaturesSupport](#)
- [ServerlessV2ScalingConfiguration](#)
- [ServerlessV2ScalingConfigurationInfo](#)
- [Subnet](#)
- [Tag](#)
- [UpgradeTarget](#)
- [VpcSecurityGroupMembership](#)

The following data types are supported by Amazon DocumentDB Elastic Clusters:

- [Cluster](#)
- [ClusterInList](#)
- [ClusterSnapshot](#)
- [ClusterSnapshotInList](#)
- [PendingMaintenanceActionDetails](#)
- [ResourcePendingMaintenanceAction](#)
- [Shard](#)
- [ValidationExceptionField](#)

## Amazon DocumentDB (with MongoDB compatibility)

The following data types are supported by Amazon DocumentDB (with MongoDB compatibility):

- [AvailabilityZone](#)
- [Certificate](#)
- [CertificateDetails](#)
- [CloudwatchLogsExportConfiguration](#)
- [ClusterMasterUserSecret](#)

- [DBCluster](#)
- [DBClusterMember](#)
- [DBClusterParameterGroup](#)
- [DBClusterRole](#)
- [DBClusterSnapshot](#)
- [DBClusterSnapshotAttribute](#)
- [DBClusterSnapshotAttributesResult](#)
- [DBEngineVersion](#)
- [DBInstance](#)
- [DBInstanceStatusInfo](#)
- [DBSubnetGroup](#)
- [Endpoint](#)
- [EngineDefaults](#)
- [Event](#)
- [EventCategoriesMap](#)
- [EventSubscription](#)
- [FailoverState](#)
- [Filter](#)
- [GlobalCluster](#)
- [GlobalClusterMember](#)
- [OrderableDBInstanceOption](#)
- [Parameter](#)
- [PendingCloudwatchLogsExports](#)
- [PendingMaintenanceAction](#)
- [PendingModifiedValues](#)
- [ResourcePendingMaintenanceActions](#)
- [ServerlessV2FeaturesSupport](#)
- [ServerlessV2ScalingConfiguration](#)
- [ServerlessV2ScalingConfigurationInfo](#)
- [Subnet](#)

- [Tag](#)
- [UpgradeTarget](#)
- [VpcSecurityGroupMembership](#)

# AvailabilityZone

Service: Amazon DocumentDB (with MongoDB compatibility)

Information about an Availability Zone.

## Contents

### Note

In the following list, the required parameters are described first.

## Name

The name of the Availability Zone.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Certificate

Service: Amazon DocumentDB (with MongoDB compatibility)

A certificate authority (CA) certificate for an AWS account.

## Contents

### Note

In the following list, the required parameters are described first.

### **CertificateArn**

The Amazon Resource Name (ARN) for the certificate.

Example: `arn:aws:rds:us-east-1::cert:rds-ca-2019`

Type: String

Required: No

### **CertificateIdentifier**

The unique key that identifies a certificate.

Example: `rds-ca-2019`

Type: String

Required: No

### **CertificateType**

The type of the certificate.

Example: `CA`

Type: String

Required: No

### **Thumbprint**

The thumbprint of the certificate.

Type: String

Required: No

### **ValidFrom**

The starting date-time from which the certificate is valid.

Example: 2019-07-31T17:57:09Z

Type: Timestamp

Required: No

### **ValidTill**

The date-time after which the certificate is no longer valid.

Example: 2024-07-31T17:57:09Z

Type: Timestamp

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## CertificateDetails

Service: Amazon DocumentDB (with MongoDB compatibility)

Returns the details of the DB instance's server certificate.

For more information, see [Updating Your Amazon DocumentDB TLS Certificates](#) and [Encrypting Data in Transit](#) in the *Amazon DocumentDB Developer Guide*.

### Contents

#### Note

In the following list, the required parameters are described first.

#### CAIdentifier

The CA identifier of the CA certificate used for the DB instance's server certificate.

Type: String

Required: No

#### ValidTill

The expiration date of the DB instance's server certificate.

Type: Timestamp

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CloudwatchLogsExportConfiguration

Service: Amazon DocumentDB (with MongoDB compatibility)

The configuration setting for the log types to be enabled for export to Amazon CloudWatch Logs for a specific instance or cluster.

The `EnableLogTypes` and `DisableLogTypes` arrays determine which logs are exported (or not exported) to CloudWatch Logs. The values within these arrays depend on the engine that is being used.

## Contents

### Note

In the following list, the required parameters are described first.

### **DisableLogTypes.member.N**

The list of log types to disable.

Type: Array of strings

Required: No

### **EnableLogTypes.member.N**

The list of log types to enable.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# ClusterMasterUserSecret

Service: Amazon DocumentDB (with MongoDB compatibility)

Contains the secret managed by Amazon DocumentDB in AWS Secrets Manager for the master user password.

## Contents

### Note

In the following list, the required parameters are described first.

### KmsKeyId

The AWS KMS key identifier that is used to encrypt the secret.

Type: String

Required: No

### SecretArn

The Amazon Resource Name (ARN) of the secret.

Type: String

Required: No

### SecretStatus

The status of the secret.

The possible status values include the following:

- `creating` - The secret is being created.
- `active` - The secret is available for normal use and rotation.
- `rotating` - The secret is being rotated.
- `impaired` - The secret can be used to access database credentials, but it can't be rotated. A secret might have this status if, for example, permissions are changed so that Amazon DocumentDB can no longer access either the secret or the KMS key for the secret.

When a secret has this status, you can correct the condition that caused the status. Alternatively, modify the instance to turn off automatic management of database credentials, and then modify the instance again to turn on automatic management of database credentials.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about a cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### **AssociatedRoles.DBClusterRole.N**

Provides a list of the AWS Identity and Access Management (IAM) roles that are associated with the cluster. (IAM) roles that are associated with a cluster grant permission for the cluster to access other AWS services on your behalf.

Type: Array of [DBClusterRole](#) objects

Required: No

### **AvailabilityZones.AvailabilityZone.N**

Provides the list of Amazon EC2 Availability Zones that instances in the cluster can be created in.

Type: Array of strings

Required: No

### **BackupRetentionPeriod**

Specifies the number of days for which automatic snapshots are retained.

Type: Integer

Required: No

### **CloneGroupId**

Identifies the clone group to which the DB cluster is associated.

Type: String

Required: No

### **ClusterCreateTime**

Specifies the time when the cluster was created, in Universal Coordinated Time (UTC).

Type: Timestamp

Required: No

### **DBClusterArn**

The Amazon Resource Name (ARN) for the cluster.

Type: String

Required: No

### **DBClusterIdentifier**

Contains a user-supplied cluster identifier. This identifier is the unique key that identifies a cluster.

Type: String

Required: No

### **DBClusterMembers.DBClusterMember.N**

Provides the list of instances that make up the cluster.

Type: Array of [DBClusterMember](#) objects

Required: No

### **DBClusterParameterGroup**

Specifies the name of the cluster parameter group for the cluster.

Type: String

Required: No

### **DbClusterResourceId**

The AWS Region-unique, immutable identifier for the cluster. This identifier is found in AWS CloudTrail log entries whenever the AWS KMS key for the cluster is accessed.

Type: String

Required: No

### **DBSubnetGroup**

Specifies information on the subnet group that is associated with the cluster, including the name, description, and subnets in the subnet group.

Type: String

Required: No

### **DeletionProtection**

Specifies whether this cluster can be deleted. If `DeletionProtection` is enabled, the cluster cannot be deleted unless it is modified and `DeletionProtection` is disabled. `DeletionProtection` protects clusters from being accidentally deleted.

Type: Boolean

Required: No

### **EarliestRestorableTime**

The earliest time to which a database can be restored with point-in-time restore.

Type: Timestamp

Required: No

### **EnabledCloudwatchLogsExports.member.N**

A list of log types that this cluster is configured to export to Amazon CloudWatch Logs.

Type: Array of strings

Required: No

### **Endpoint**

Specifies the connection endpoint for the primary instance of the cluster.

Type: String

Required: No

## Engine

Provides the name of the database engine to be used for this cluster.

Type: String

Required: No

## EngineVersion

Indicates the database engine version.

Type: String

Required: No

## HostedZoneId

Specifies the ID that Amazon Route 53 assigns when you create a hosted zone.

Type: String

Required: No

## IOOptimizedNextAllowedModificationTime

The next time you can modify the Amazon DocumentDB cluster to use the iopt1 storage type.

Type: Timestamp

Required: No

## KmsKeyId

If `StorageEncrypted` is `true`, the AWS KMS key identifier for the encrypted cluster.

Type: String

Required: No

## LatestRestorableTime

Specifies the latest time to which a database can be restored with point-in-time restore.

Type: Timestamp

Required: No

**MasterUsername**

Contains the master user name for the cluster.

Type: String

Required: No

**MasterUserSecret**

The secret managed by Amazon DocumentDB in AWS Secrets Manager for the master user password.

Type: [ClusterMasterUserSecret](#) object

Required: No

**MultiAZ**

Specifies whether the cluster has instances in multiple Availability Zones.

Type: Boolean

Required: No

**NetworkType**

The network type of the cluster.

The network type is determined by the DBSubnetGroup specified for the cluster. A DBSubnetGroup can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

For more information, see [DocumentDB clusters in a VPC](#) in the Amazon DocumentDB Developer Guide.

Valid Values: IPV4 | DUAL

Type: String

Required: No

**PercentProgress**

Specifies the progress of the operation as a percentage.

Type: String

Required: No

## **Port**

Specifies the port that the database engine is listening on.

Type: Integer

Required: No

## **PreferredBackupWindow**

Specifies the daily time range during which automated backups are created if automated backups are enabled, as determined by the `BackupRetentionPeriod`.

Type: String

Required: No

## **PreferredMaintenanceWindow**

Specifies the weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Type: String

Required: No

## **ReaderEndpoint**

The reader endpoint for the cluster. The reader endpoint for a cluster load balances connections across the Amazon DocumentDB replicas that are available in a cluster. As clients request new connections to the reader endpoint, Amazon DocumentDB distributes the connection requests among the Amazon DocumentDB replicas in the cluster. This functionality can help balance your read workload across multiple Amazon DocumentDB replicas in your cluster.

If a failover occurs, and the Amazon DocumentDB replica that you are connected to is promoted to be the primary instance, your connection is dropped. To continue sending your read workload to other Amazon DocumentDB replicas in the cluster, you can then reconnect to the reader endpoint.

Type: String

Required: No

**ReadReplicaIdentifiers.ReadReplicaIdentifier.N**

Contains one or more identifiers of the secondary clusters that are associated with this cluster.

Type: Array of strings

Required: No

**ReplicationSourceIdentifier**

Contains the identifier of the source cluster if this cluster is a secondary cluster.

Type: String

Required: No

**ServerlessV2ScalingConfiguration**

The scaling configuration of an Amazon DocumentDB Serverless cluster.

Type: [ServerlessV2ScalingConfigurationInfo](#) object

Required: No

**Status**

Specifies the current state of this cluster.

Type: String

Required: No

**StorageEncrypted**

Specifies whether the cluster is encrypted.

Type: Boolean

Required: No

**StorageType**

Storage type associated with your cluster

For information on storage types for Amazon DocumentDB clusters, see Cluster storage configurations in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - standard | iopt1

Default value is standard

Type: String

Required: No

### **VpcSecurityGroups.VpcSecurityGroupMembership.N**

Provides a list of virtual private cloud (VPC) security groups that the cluster belongs to.

Type: Array of [VpcSecurityGroupMembership](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DBClusterMember

Service: Amazon DocumentDB (with MongoDB compatibility)

Contains information about an instance that is part of a cluster.

### Contents

#### Note

In the following list, the required parameters are described first.

#### **DBClusterParameterGroupStatus**

Specifies the status of the cluster parameter group for this member of the DB cluster.

Type: String

Required: No

#### **DBInstanceIdentifier**

Specifies the instance identifier for this member of the cluster.

Type: String

Required: No

#### **IsClusterWriter**

A value that is `true` if the cluster member is the primary instance for the cluster and `false` otherwise.

Type: Boolean

Required: No

#### **PromotionTier**

A value that specifies the order in which an Amazon DocumentDB replica is promoted to the primary instance after a failure of the existing primary instance.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBClusterParameterGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about a cluster parameter group.

## Contents

### Note

In the following list, the required parameters are described first.

### **DBClusterParameterGroupArn**

The Amazon Resource Name (ARN) for the cluster parameter group.

Type: String

Required: No

### **DBClusterParameterGroupName**

Provides the name of the cluster parameter group.

Type: String

Required: No

### **DBParameterGroupFamily**

Provides the name of the parameter group family that this cluster parameter group is compatible with.

Type: String

Required: No

### **Description**

Provides the customer-specified description for this cluster parameter group.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBClusterRole

Service: Amazon DocumentDB (with MongoDB compatibility)

Describes an AWS Identity and Access Management (IAM) role that is associated with a cluster.

## Contents

### Note

In the following list, the required parameters are described first.

## RoleArn

The Amazon Resource Name (ARN) of the IAMrole that is associated with the DB cluster.

Type: String

Required: No

## Status

Describes the state of association between the IAMrole and the cluster. The Status property returns one of the following values:

- **ACTIVE** - The IAMrole ARN is associated with the cluster and can be used to access other AWS services on your behalf.
- **PENDING** - The IAMrole ARN is being associated with the cluster.
- **INVALID** - The IAMrole ARN is associated with the cluster, but the cluster cannot assume the IAMrole to access other AWS services on your behalf.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBClusterSnapshot

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about a cluster snapshot.

## Contents

### Note

In the following list, the required parameters are described first.

### **AvailabilityZones.AvailabilityZone.N**

Provides the list of Amazon EC2 Availability Zones that instances in the cluster snapshot can be restored in.

Type: Array of strings

Required: No

### **ClusterCreateTime**

Specifies the time when the cluster was created, in Universal Coordinated Time (UTC).

Type: Timestamp

Required: No

### **DBClusterIdentifier**

Specifies the cluster identifier of the cluster that this cluster snapshot was created from.

Type: String

Required: No

### **DBClusterSnapshotArn**

The Amazon Resource Name (ARN) for the cluster snapshot.

Type: String

Required: No

**DBClusterSnapshotIdentifier**

Specifies the identifier for the cluster snapshot.

Type: String

Required: No

**Engine**

Specifies the name of the database engine.

Type: String

Required: No

**EngineVersion**

Provides the version of the database engine for this cluster snapshot.

Type: String

Required: No

**KmsKeyId**

If `StorageEncrypted` is `true`, the AWS KMS key identifier for the encrypted cluster snapshot.

Type: String

Required: No

**MasterUsername**

Provides the master user name for the cluster snapshot.

Type: String

Required: No

**PercentProgress**

Specifies the percentage of the estimated data that has been transferred.

Type: Integer

Required: No

**Port**

Specifies the port that the cluster was listening on at the time of the snapshot.

Type: Integer

Required: No

**SnapshotCreateTime**

Provides the time when the snapshot was taken, in UTC.

Type: Timestamp

Required: No

**SnapshotType**

Provides the type of the cluster snapshot.

Type: String

Required: No

**SourceDBClusterSnapshotArn**

If the cluster snapshot was copied from a source cluster snapshot, the ARN for the source cluster snapshot; otherwise, a null value.

Type: String

Required: No

**Status**

Specifies the status of this cluster snapshot.

Type: String

Required: No

**StorageEncrypted**

Specifies whether the cluster snapshot is encrypted.

Type: Boolean

Required: No

## StorageType

Storage type associated with your cluster snapshot

For information on storage types for Amazon DocumentDB clusters, see Cluster storage configurations in the *Amazon DocumentDB Developer Guide*.

Valid values for storage type - standard | iopt1

Default value is standard

Type: String

Required: No

## VpcId

Provides the virtual private cloud (VPC) ID that is associated with the cluster snapshot.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DBClusterSnapshotAttribute

Service: Amazon DocumentDB (with MongoDB compatibility)

Contains the name and values of a manual cluster snapshot attribute.

Manual cluster snapshot attributes are used to authorize other AWS accounts to restore a manual cluster snapshot.

### Contents

#### Note

In the following list, the required parameters are described first.

#### AttributeName

The name of the manual cluster snapshot attribute.

The attribute named `restore` refers to the list of AWS accounts that have permission to copy or restore the manual cluster snapshot.

Type: String

Required: No

#### AttributeValues.AttributeValue.N

The values for the manual cluster snapshot attribute.

If the `AttributeName` field is set to `restore`, then this element returns a list of IDs of the AWS accounts that are authorized to copy or restore the manual cluster snapshot. If a value of `all` is in the list, then the manual cluster snapshot is public and available for any AWS account to copy or restore.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBClusterSnapshotAttributesResult

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about the attributes that are associated with a cluster snapshot.

## Contents

### Note

In the following list, the required parameters are described first.

### DBClusterSnapshotAttributes.DBClusterSnapshotAttribute.N

The list of attributes and values for the cluster snapshot.

Type: Array of [DBClusterSnapshotAttribute](#) objects

Required: No

### DBClusterSnapshotIdentifier

The identifier of the cluster snapshot that the attributes apply to.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DBEngineVersion

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about an engine version.

### Contents

#### Note

In the following list, the required parameters are described first.

#### **DBEngineDescription**

The description of the database engine.

Type: String

Required: No

#### **DBEngineVersionDescription**

The description of the database engine version.

Type: String

Required: No

#### **DBParameterGroupFamily**

The name of the parameter group family for the database engine.

Type: String

Required: No

#### **Engine**

The name of the database engine.

Type: String

Required: No

## EngineVersion

The version number of the database engine.

Type: String

Required: No

## ExportableLogTypes.member.N

The types of logs that the database engine has available for export to Amazon CloudWatch Logs.

Type: Array of strings

Required: No

## ServerlessV2FeaturesSupport

Specifies any Amazon DocumentDB Serverless properties or limits that differ between Amazon DocumentDB engine versions. You can test the values of this attribute when deciding which Amazon DocumentDB version to use in a new or upgraded cluster. You can also retrieve the version of an existing cluster and check whether that version supports certain Amazon DocumentDB Serverless features before you attempt to use those features.

Type: [ServerlessV2FeaturesSupport](#) object

Required: No

## SupportedCACertificateIdentifiers.member.N

A list of the supported CA certificate identifiers.

For more information, see [Updating Your Amazon DocumentDB TLS Certificates](#) and [Encrypting Data in Transit](#) in the *Amazon DocumentDB Developer Guide*.

Type: Array of strings

Required: No

## SupportsCertificateRotationWithoutRestart

Indicates whether the engine version supports rotating the server certificate without rebooting the DB instance.

Type: Boolean

Required: No

### **SupportsLogExportsToCloudwatchLogs**

A value that indicates whether the engine version supports exporting the log types specified by `ExportableLogTypes` to CloudWatch Logs.

Type: Boolean

Required: No

### **ValidUpgradeTarget.UpgradeTarget.N**

A list of engine versions that this database engine version can be upgraded to.

Type: Array of [UpgradeTarget](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DBInstance

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about an instance.

## Contents

### Note

In the following list, the required parameters are described first.

### **AutoMinorVersionUpgrade**

Does not apply. This parameter does not apply to Amazon DocumentDB. Amazon DocumentDB does not perform minor version upgrades regardless of the value set.

Type: Boolean

Required: No

### **AvailabilityZone**

Specifies the name of the Availability Zone that the instance is located in.

Type: String

Required: No

### **BackupRetentionPeriod**

Specifies the number of days for which automatic snapshots are retained.

Type: Integer

Required: No

### **CACertificateIdentifier**

The identifier of the CA certificate for this DB instance.

Type: String

Required: No

## CertificateDetails

The details of the DB instance's server certificate.

Type: [CertificateDetails](#) object

Required: No

## CopyTagsToSnapshot

A value that indicates whether to copy tags from the DB instance to snapshots of the DB instance. By default, tags are not copied.

Type: Boolean

Required: No

## DBClusterIdentifier

Contains the name of the cluster that the instance is a member of if the instance is a member of a cluster.

Type: String

Required: No

## DBInstanceArn

The Amazon Resource Name (ARN) for the instance.

Type: String

Required: No

## DBInstanceClass

Contains the name of the compute and memory capacity class of the instance.

Type: String

Required: No

## DBInstanceIdentifier

Contains a user-provided database identifier. This identifier is the unique key that identifies an instance.

Type: String

Required: No

### **DBInstanceStatus**

Specifies the current state of this database.

Type: String

Required: No

### **DbiResourceId**

The AWS Region-unique, immutable identifier for the instance. This identifier is found in AWS CloudTrail log entries whenever the AWS KMS key for the instance is accessed.

Type: String

Required: No

### **DBSubnetGroup**

Specifies information on the subnet group that is associated with the instance, including the name, description, and subnets in the subnet group.

Type: [DBSubnetGroup](#) object

Required: No

### **EnabledCloudwatchLogsExports.member.N**

A list of log types that this instance is configured to export to CloudWatch Logs.

Type: Array of strings

Required: No

### **Endpoint**

Specifies the connection endpoint.

Type: [Endpoint](#) object

Required: No

## Engine

Provides the name of the database engine to be used for this instance.

Type: String

Required: No

## EngineVersion

Indicates the database engine version.

Type: String

Required: No

## InstanceCreateTime

Provides the date and time that the instance was created.

Type: Timestamp

Required: No

## KmsKeyId

If `StorageEncrypted` is `true`, the AWS KMS key identifier for the encrypted instance.

Type: String

Required: No

## LatestRestorableTime

Specifies the latest time to which a database can be restored with point-in-time restore.

Type: Timestamp

Required: No

## PendingModifiedValues

Specifies that changes to the instance are pending. This element is included only when changes are pending. Specific changes are identified by subelements.

Type: [PendingModifiedValues](#) object

Required: No

### **PerformanceInsightsEnabled**

Set to `true` if Amazon RDS Performance Insights is enabled for the DB instance, and otherwise `false`.

Type: Boolean

Required: No

### **PerformanceInsightsKMSKeyId**

The AWS KMS key identifier for encryption of Performance Insights data. The AWS KMS key ID is the Amazon Resource Name (ARN), AWS KMS key identifier, or the AWS KMS key alias for the AWS KMS encryption key.

Type: String

Required: No

### **PreferredBackupWindow**

Specifies the daily time range during which automated backups are created if automated backups are enabled, as determined by the `BackupRetentionPeriod`.

Type: String

Required: No

### **PreferredMaintenanceWindow**

Specifies the weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Type: String

Required: No

### **PromotionTier**

A value that specifies the order in which an Amazon DocumentDB replica is promoted to the primary instance after a failure of the existing primary instance.

Type: Integer

Required: No

### **PubliclyAccessible**

Not supported. Amazon DocumentDB does not currently support public endpoints. The value of `PubliclyAccessible` is always false.

Type: Boolean

Required: No

### **StatusInfos.DBInstanceStatusInfo.N**

The status of a read replica. If the instance is not a read replica, this is blank.

Type: Array of [DBInstanceStatusInfo](#) objects

Required: No

### **StorageEncrypted**

Specifies whether or not the instance is encrypted.

Type: Boolean

Required: No

### **VpcSecurityGroups.VpcSecurityGroupMembership.N**

Provides a list of VPC security group elements that the instance belongs to.

Type: Array of [VpcSecurityGroupMembership](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DBInstanceStatusInfo

Service: Amazon DocumentDB (with MongoDB compatibility)

Provides a list of status information for an instance.

### Contents

#### Note

In the following list, the required parameters are described first.

### Message

Details of the error if there is an error for the instance. If the instance is not in an error state, this value is blank.

Type: String

Required: No

### Normal

A Boolean value that is `true` if the instance is operating normally, or `false` if the instance is in an error state.

Type: Boolean

Required: No

### Status

Status of the instance. For a `StatusType` of `read replica`, the values can be `replicating`, `error`, `stopped`, or `terminated`.

Type: String

Required: No

### StatusType

This value is currently `"read replication"`.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DBSubnetGroup

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about a subnet group.

### Contents

#### Note

In the following list, the required parameters are described first.

#### **DBSubnetGroupArn**

The Amazon Resource Name (ARN) for the DB subnet group.

Type: String

Required: No

#### **DBSubnetGroupDescription**

Provides the description of the subnet group.

Type: String

Required: No

#### **DBSubnetGroupName**

The name of the subnet group.

Type: String

Required: No

#### **SubnetGroupStatus**

Provides the status of the subnet group.

Type: String

Required: No

## **Subnets.Subnet.N**

Detailed information about one or more subnets within a subnet group.

Type: Array of [Subnet](#) objects

Required: No

## **SupportedNetworkTypes.member.N**

The network type of the DB subnet group.

Valid Values: IPV4 | DUAL

A DBSubnetGroup can support only the IPv4 protocol or the IPv4 and the IPv6 protocols (DUAL).

Type: Array of strings

Required: No

## **VpcId**

Provides the virtual private cloud (VPC) ID of the subnet group.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Endpoint

Service: Amazon DocumentDB (with MongoDB compatibility)

Network information for accessing a cluster or instance. Client programs must specify a valid endpoint to access these Amazon DocumentDB resources.

### Contents

#### Note

In the following list, the required parameters are described first.

#### Address

Specifies the DNS address of the instance.

Type: String

Required: No

#### HostedZoneId

Specifies the ID that Amazon Route 53 assigns when you create a hosted zone.

Type: String

Required: No

#### Port

Specifies the port that the database engine is listening on.

Type: Integer

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## EngineDefaults

Service: Amazon DocumentDB (with MongoDB compatibility)

Contains the result of a successful invocation of the `DescribeEngineDefaultClusterParameters` operation.

### Contents

#### Note

In the following list, the required parameters are described first.

### DBParameterGroupFamily

The name of the cluster parameter group family to return the engine parameter information for.

Type: String

Required: No

### Marker

An optional pagination token provided by a previous request. If this parameter is specified, the response includes only records beyond the marker, up to the value specified by `MaxRecords`.

Type: String

Required: No

### Parameters.Parameter.N

The parameters of a particular cluster parameter group family.

Type: Array of [Parameter](#) objects

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Event

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about an event.

### Contents

#### Note

In the following list, the required parameters are described first.

#### Date

Specifies the date and time of the event.

Type: Timestamp

Required: No

#### EventCategories.EventCategory.N

Specifies the category for the event.

Type: Array of strings

Required: No

#### Message

Provides the text of this event.

Type: String

Required: No

#### SourceArn

The Amazon Resource Name (ARN) for the event.

Type: String

Required: No

## SourceIdentifier

Provides the identifier for the source of the event.

Type: String

Required: No

## SourceType

Specifies the source type for this event.

Type: String

Valid Values: `db-instance` | `db-parameter-group` | `db-security-group` | `db-snapshot` | `db-cluster` | `db-cluster-snapshot`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EventCategoriesMap

Service: Amazon DocumentDB (with MongoDB compatibility)

An event source type, accompanied by one or more event category names.

## Contents

### Note

In the following list, the required parameters are described first.

### EventCategories.EventCategory.N

The event categories for the specified source type.

Type: Array of strings

Required: No

### SourceType

The source type that the returned categories belong to.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EventSubscription

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about an event to which you have subscribed.

## Contents

### Note

In the following list, the required parameters are described first.

### CustomerAwsId

The AWS customer account that is associated with the Amazon DocumentDB event notification subscription.

Type: String

Required: No

### CustSubscriptionId

The Amazon DocumentDB event notification subscription ID.

Type: String

Required: No

### Enabled

A Boolean value indicating whether the subscription is enabled. A value of `true` indicates that the subscription is enabled.

Type: Boolean

Required: No

### EventCategoriesList.EventCategory.N

A list of event categories for the Amazon DocumentDB event notification subscription.

Type: Array of strings

Required: No

### **EventSubscriptionArn**

The Amazon Resource Name (ARN) for the event subscription.

Type: String

Required: No

### **SnsTopicArn**

The topic ARN of the Amazon DocumentDB event notification subscription.

Type: String

Required: No

### **SourceIdsList.SourceId.N**

A list of source IDs for the Amazon DocumentDB event notification subscription.

Type: Array of strings

Required: No

### **SourceType**

The source type for the Amazon DocumentDB event notification subscription.

Type: String

Required: No

### **Status**

The status of the Amazon DocumentDB event notification subscription.

Constraints:

Can be one of the following: `creating`, `modifying`, `deleting`, `active`, `no-permission`, `topic-not-exist`

The `no-permission` status indicates that Amazon DocumentDB no longer has permission to post to the SNS topic. The `topic-not-exist` status indicates that the topic was deleted after the subscription was created.

Type: String

Required: No

### **SubscriptionCreationTime**

The time at which the Amazon DocumentDB event notification subscription was created.

Type: String

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FailoverState

Service: Amazon DocumentDB (with MongoDB compatibility)

Contains the state of scheduled or in-process operations on an Amazon DocumentDB global cluster. This data type is empty unless a switchover or failover operation is scheduled or is in progress on the global cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### FromDbClusterArn

The Amazon Resource Name (ARN) of the Amazon DocumentDB cluster that is currently being demoted, and which is associated with this state.

Type: String

Required: No

### IsDataLossAllowed

Indicates whether the operation is a global switchover or a global failover. If data loss is allowed, then the operation is a global failover. Otherwise, it's a switchover.

Type: Boolean

Required: No

### Status

The current status of the global cluster. Possible values are as follows:

- **pending** – The service received a request to switch over or fail over the global cluster. The global cluster's primary cluster and the specified secondary cluster are being verified before the operation starts.
- **failing-over** – The chosen secondary cluster is being promoted to become the new primary cluster to fail over the global cluster.

- **cancelling** – The request to switch over or fail over the global cluster was cancelled and the primary cluster and the selected secondary cluster are returning to their previous states.

Type: String

Valid Values: pending | failing-over | cancelling

Required: No

### **ToDbClusterArn**

The Amazon Resource Name (ARN) of the Amazon DocumentDB cluster that is currently being promoted, and which is associated with this state.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Filter

Service: Amazon DocumentDB (with MongoDB compatibility)

A named set of filter values, used to return a more specific list of results. You can use a filter to match a set of resources by specific criteria, such as IDs.

Wildcards are not supported in filters.

## Contents

### Note

In the following list, the required parameters are described first.

### Name

The name of the filter. Filter names are case sensitive.

Type: String

Required: Yes

### Values.Value.N

One or more filter values. Filter values are case sensitive.

Type: Array of strings

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlobalCluster

Service: Amazon DocumentDB (with MongoDB compatibility)

A data type representing an Amazon DocumentDB global cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### DatabaseName

The default database name within the new global cluster.

Type: String

Required: No

### DeletionProtection

The deletion protection setting for the new global cluster.

Type: Boolean

Required: No

### Engine

The Amazon DocumentDB database engine used by the global cluster.

Type: String

Required: No

### EngineVersion

Indicates the database engine version.

Type: String

Required: No

## FailoverState

A data object containing all properties for the current state of an in-process or pending switchover or failover process for this global cluster. This object is empty unless the `SwitchoverGlobalCluster` or `FailoverGlobalCluster` operation was called on this global cluster.

Type: [FailoverState](#) object

Required: No

## GlobalClusterArn

The Amazon Resource Name (ARN) for the global cluster.

Type: String

Required: No

## GlobalClusterIdentifier

Contains a user-supplied global cluster identifier. This identifier is the unique key that identifies a global cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: No

## GlobalClusterMembers.GlobalClusterMember.N

The list of cluster IDs for secondary clusters within the global cluster. Currently limited to one item.

Type: Array of [GlobalClusterMember](#) objects

Required: No

## GlobalClusterResourceId

The AWS RegionRegion-unique, immutable identifier for the global database cluster. This identifier is found in AWS CloudTrail log entries whenever the AWS KMS customer master key (CMK) for the cluster is accessed.

Type: String

Required: No

### Status

Specifies the current state of this global cluster.

Type: String

Required: No

### StorageEncrypted

The storage encryption setting for the global cluster.

Type: Boolean

Required: No

### TagList.Tag.N

A list of global cluster tags.

Type: Array of [Tag](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlobalClusterMember

Service: Amazon DocumentDB (with MongoDB compatibility)

A data structure with information about any primary and secondary clusters associated with an Amazon DocumentDB global clusters.

## Contents

### Note

In the following list, the required parameters are described first.

### DBClusterArn

The Amazon Resource Name (ARN) for each Amazon DocumentDB cluster.

Type: String

Required: No

### IsWriter

Specifies whether the Amazon DocumentDB cluster is the primary cluster (that is, has read-write capability) for the Amazon DocumentDB global cluster with which it is associated.

Type: Boolean

Required: No

### Readers.member.N

The Amazon Resource Name (ARN) for each read-only secondary cluster associated with the Amazon DocumentDB global cluster.

Type: Array of strings

Required: No

### SynchronizationStatus

The status of synchronization of each Amazon DocumentDB cluster in the global cluster.

Type: String

Valid Values: `connected` | `pending-resync`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OrderableDBInstanceOption

Service: Amazon DocumentDB (with MongoDB compatibility)

The options that are available for an instance.

## Contents

### Note

In the following list, the required parameters are described first.

### **AvailabilityZones.AvailabilityZone.N**

A list of Availability Zones for an instance.

Type: Array of [AvailabilityZone](#) objects

Required: No

### **DBInstanceClass**

The instance class for an instance.

Type: String

Required: No

### **Engine**

The engine type of an instance.

Type: String

Required: No

### **EngineVersion**

The engine version of an instance.

Type: String

Required: No

## LicenseModel

The license model for an instance.

Type: String

Required: No

## StorageType

The storage type to associate with the DB cluster

Type: String

Required: No

## Vpc

Indicates whether an instance is in a virtual private cloud (VPC).

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Parameter

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about an individual parameter.

## Contents

### Note

In the following list, the required parameters are described first.

### AllowedValues

Specifies the valid range of values for the parameter.

Type: String

Required: No

### ApplyMethod

Indicates when to apply parameter updates.

Type: String

Valid Values: `immediate` | `pending-reboot`

Required: No

### ApplyType

Specifies the engine-specific parameters type.

Type: String

Required: No

### DataType

Specifies the valid data type for the parameter.

Type: String

Required: No

### Description

Provides a description of the parameter.

Type: String

Required: No

### IsModifiable

Indicates whether (`true`) or not (`false`) the parameter can be modified. Some parameters have security or operational implications that prevent them from being changed.

Type: Boolean

Required: No

### MinimumEngineVersion

The earliest engine version to which the parameter can apply.

Type: String

Required: No

### ParameterName

Specifies the name of the parameter.

Type: String

Required: No

### ParameterValue

Specifies the value of the parameter. Must be one or more of the cluster parameter's `AllowedValues` in CSV format:

Valid values are:

- `enabled`: The cluster accepts secure connections using TLS version 1.0 through 1.3.
- `disabled`: The cluster does not accept secure connections using TLS.
- `fips-140-3`: The cluster only accepts secure connections per the requirements of the Federal Information Processing Standards (FIPS) publication 140-3. Only supported starting

with Amazon DocumentDB 5.0 (engine version 3.0.3727) clusters in these regions: ca-central-1, us-west-2, us-east-1, us-east-2, us-gov-east-1, us-gov-west-1.

- `tls1.2+`: The cluster accepts secure connections using TLS version 1.2 and above. Only supported starting with Amazon DocumentDB 4.0 (engine version 2.0.10980) and Amazon DocumentDB 5.0 (engine version 3.0.11051).
- `tls1.3+`: The cluster accepts secure connections using TLS version 1.3 and above. Only supported starting with Amazon DocumentDB 4.0 (engine version 2.0.10980) and Amazon DocumentDB 5.0 (engine version 3.0.11051).

Type: String

Required: No

### Source

Indicates the source of the parameter value.

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PendingCloudwatchLogsExports

Service: Amazon DocumentDB (with MongoDB compatibility)

A list of the log types whose configuration is still pending. These log types are in the process of being activated or deactivated.

## Contents

### Note

In the following list, the required parameters are described first.

### **LogTypesToDisable.member.N**

Log types that are in the process of being enabled. After they are enabled, these log types are exported to Amazon CloudWatch Logs.

Type: Array of strings

Required: No

### **LogTypesToEnable.member.N**

Log types that are in the process of being deactivated. After they are deactivated, these log types aren't exported to CloudWatch Logs.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## PendingMaintenanceAction

Service: Amazon DocumentDB (with MongoDB compatibility)

Provides information about a pending maintenance action for a resource.

### Contents

#### Note

In the following list, the required parameters are described first.

### Action

The type of pending maintenance action that is available for the resource.

Type: String

Required: No

### AutoAppliedAfterDate

The date of the maintenance window when the action is applied. The maintenance action is applied to the resource during its first maintenance window after this date. If this date is specified, any next-maintenance opt-in requests are ignored.

Type: Timestamp

Required: No

### CurrentApplyDate

The effective date when the pending maintenance action is applied to the resource.

Type: Timestamp

Required: No

### Description

A description providing more detail about the maintenance action.

Type: String

Required: No

### **ForcedApplyDate**

The date when the maintenance action is automatically applied. The maintenance action is applied to the resource on this date regardless of the maintenance window for the resource. If this date is specified, any `immediate` opt-in requests are ignored.

Type: Timestamp

Required: No

### **OptInStatus**

Indicates the type of opt-in request that has been received for the resource.

Type: String

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## PendingModifiedValues

Service: Amazon DocumentDB (with MongoDB compatibility)

One or more modified settings for an instance. These modified settings have been requested, but haven't been applied yet.

### Contents

#### Note

In the following list, the required parameters are described first.

#### **AllocatedStorage**

Contains the new `AllocatedStorage` size for then instance that will be applied or is currently being applied.

Type: Integer

Required: No

#### **BackupRetentionPeriod**

Specifies the pending number of days for which automated backups are retained.

Type: Integer

Required: No

#### **CACertificateIdentifier**

Specifies the identifier of the certificate authority (CA) certificate for the DB instance.

Type: String

Required: No

#### **DBInstanceClass**

Contains the new `DBInstanceClass` for the instance that will be applied or is currently being applied.

Type: String

Required: No

### **DBInstanceIdentifier**

Contains the new `DBInstanceIdentifier` for the instance that will be applied or is currently being applied.

Type: String

Required: No

### **DBSubnetGroupName**

The new subnet group for the instance.

Type: String

Required: No

### **EngineVersion**

Indicates the database engine version.

Type: String

Required: No

### **Iops**

Specifies the new Provisioned IOPS value for the instance that will be applied or is currently being applied.

Type: Integer

Required: No

### **LicenseModel**

The license model for the instance.

Valid values: `license-included`, `bring-your-own-license`, `general-public-license`

Type: String

Required: No

## MasterUserPassword

Contains the pending or currently in-progress change of the master credentials for the instance.

Type: String

Required: No

## MultiAZ

Indicates that the Single-AZ instance is to change to a Multi-AZ deployment.

Type: Boolean

Required: No

## PendingCloudwatchLogsExports

A list of the log types whose configuration is still pending. These log types are in the process of being activated or deactivated.

Type: [PendingCloudwatchLogsExports](#) object

Required: No

## Port

Specifies the pending port for the instance.

Type: Integer

Required: No

## StorageType

Specifies the storage type to be associated with the instance.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourcePendingMaintenanceActions

Service: Amazon DocumentDB (with MongoDB compatibility)

Represents the output of [ApplyPendingMaintenanceAction](#).

## Contents

### Note

In the following list, the required parameters are described first.

### PendingMaintenanceActionDetails.PendingMaintenanceAction.N

A list that provides details about the pending maintenance actions for the resource.

Type: Array of [PendingMaintenanceAction](#) objects

Required: No

### ResourceIdentifier

The Amazon Resource Name (ARN) of the resource that has pending maintenance actions.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## ServerlessV2FeaturesSupport

Service: Amazon DocumentDB (with MongoDB compatibility)

Specifies any Amazon DocumentDB Serverless properties or limits that differ between Amazon DocumentDB engine versions. You can test the values of this attribute when deciding which Amazon DocumentDB version to use in a new or upgraded cluster. You can also retrieve the version of an existing cluster and check whether that version supports certain Amazon DocumentDB Serverless features before you attempt to use those features.

### Contents

#### Note

In the following list, the required parameters are described first.

### MaxCapacity

The maximum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 32, 32.5, 33, and so on.

Type: Double

Required: No

### MinCapacity

The minimum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 8, 8.5, 9, and so on.

Type: Double

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ServerlessV2ScalingConfiguration

Service: Amazon DocumentDB (with MongoDB compatibility)

Sets the scaling configuration of an Amazon DocumentDB Serverless cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### MaxCapacity

The maximum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 32, 32.5, 33, and so on.

Type: Double

Required: No

### MinCapacity

The minimum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 8, 8.5, 9, and so on.

Type: Double

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ServerlessV2ScalingConfigurationInfo

Service: Amazon DocumentDB (with MongoDB compatibility)

Retrieves the scaling configuration for an Amazon DocumentDB Serverless cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### MaxCapacity

The maximum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 32, 32.5, 33, and so on.

Type: Double

Required: No

### MinCapacity

The minimum number of Amazon DocumentDB capacity units (DCUs) for an instance in an Amazon DocumentDB Serverless cluster. You can specify DCU values in half-step increments, such as 8, 8.5, 9, and so on.

Type: Double

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# Subnet

Service: Amazon DocumentDB (with MongoDB compatibility)

Detailed information about a subnet.

## Contents

### Note

In the following list, the required parameters are described first.

### **SubnetAvailabilityZone**

Specifies the Availability Zone for the subnet.

Type: [AvailabilityZone](#) object

Required: No

### **SubnetIdentifier**

Specifies the identifier of the subnet.

Type: String

Required: No

### **SubnetStatus**

Specifies the status of the subnet.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Tag

Service: Amazon DocumentDB (with MongoDB compatibility)

Metadata assigned to an Amazon DocumentDB resource consisting of a key-value pair.

### Contents

#### Note

In the following list, the required parameters are described first.

### Key

The required name of the tag. The string value can be from 1 to 128 Unicode characters in length and can't be prefixed with "aws:" or "rds:". The string can contain only the set of Unicode letters, digits, white space, '\_', ':', '/', '=', '+', '-' (Java regex: "`^([\p{L}\p{Z}\p{N}_:/=+\-]*)$`").

Type: String

Required: No

### Value

The optional value of the tag. The string value can be from 1 to 256 Unicode characters in length and can't be prefixed with "aws:" or "rds:". The string can contain only the set of Unicode letters, digits, white space, '\_', ':', '/', '=', '+', '-' (Java regex: "`^([\p{L}\p{Z}\p{N}_:/=+\-]*)$`").

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpgradeTarget

Service: Amazon DocumentDB (with MongoDB compatibility)

The version of the database engine that an instance can be upgraded to.

## Contents

### Note

In the following list, the required parameters are described first.

## AutoUpgrade

A value that indicates whether the target version is applied to any source DB instances that have `AutoMinorVersionUpgrade` set to `true`.

Type: Boolean

Required: No

## Description

The version of the database engine that an instance can be upgraded to.

Type: String

Required: No

## Engine

The name of the upgrade target database engine.

Type: String

Required: No

## EngineVersion

The version number of the upgrade target database engine.

Type: String

Required: No

## IsMajorVersionUpgrade

A value that indicates whether a database engine is upgraded to a major version.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VpcSecurityGroupMembership

Service: Amazon DocumentDB (with MongoDB compatibility)

Used as a response element for queries on virtual private cloud (VPC) security group membership.

## Contents

### Note

In the following list, the required parameters are described first.

## Status

The status of the VPC security group.

Type: String

Required: No

## VpcSecurityGroupId

The name of the VPC security group.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Amazon DocumentDB Elastic Clusters

The following data types are supported by Amazon DocumentDB Elastic Clusters:

- [Cluster](#)
- [ClusterInList](#)
- [ClusterSnapshot](#)
- [ClusterSnapshotInList](#)
- [PendingMaintenanceActionDetails](#)
- [ResourcePendingMaintenanceAction](#)
- [Shard](#)
- [ValidationExceptionField](#)

# Cluster

Service: Amazon DocumentDB Elastic Clusters

Returns information about a specific elastic cluster.

## Contents

### Note

In the following list, the required parameters are described first.

### **adminUserName**

The name of the elastic cluster administrator.

Type: String

Required: Yes

### **authType**

The authentication type for the elastic cluster.

Type: String

Valid Values: PLAIN\_TEXT | SECRET\_ARN

Required: Yes

### **clusterArn**

The ARN identifier of the elastic cluster.

Type: String

Required: Yes

### **clusterEndpoint**

The URL used to connect to the elastic cluster.

Type: String

Required: Yes

### **clusterName**

The name of the elastic cluster.

Type: String

Required: Yes

### **createTime**

The time when the elastic cluster was created in Universal Coordinated Time (UTC).

Type: String

Required: Yes

### **kmsKeyId**

The KMS key identifier to use to encrypt the elastic cluster.

Type: String

Required: Yes

### **preferredMaintenanceWindow**

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

*Format:* ddd:hh24:mi-ddd:hh24:mi

Type: String

Required: Yes

### **shardCapacity**

The number of vCPUs assigned to each elastic cluster shard. Maximum is 64. Allowed values are 2, 4, 8, 16, 32, 64.

Type: Integer

Required: Yes

**shardCount**

The number of shards assigned to the elastic cluster. Maximum is 32.

Type: Integer

Required: Yes

**status**

The status of the elastic cluster.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | UPDATING |  
VPC\_ENDPOINT\_LIMIT\_EXCEEDED | IP\_ADDRESS\_LIMIT\_EXCEEDED  
| INVALID\_SECURITY\_GROUP\_ID | INVALID\_SUBNET\_ID |  
INACCESSIBLE\_ENCRYPTION\_CREDS | INACCESSIBLE\_SECRET\_ARN |  
INACCESSIBLE\_VPC\_ENDPOINT | INCOMPATIBLE\_NETWORK | MERGING | MODIFYING  
| SPLITTING | COPYING | STARTING | STOPPING | STOPPED | MAINTENANCE |  
INACCESSIBLE\_ENCRYPTION\_CREDENTIALS\_RECOVERABLE

Required: Yes

**subnetIds**

The Amazon EC2 subnet IDs for the elastic cluster.

Type: Array of strings

Required: Yes

**vpcSecurityGroupIds**

A list of EC2 VPC security groups associated with this elastic cluster.

Type: Array of strings

Required: Yes

**backupRetentionPeriod**

The number of days for which automatic snapshots are retained.

Type: Integer

Required: No

### **preferredBackupWindow**

The daily time range during which automated backups are created if automated backups are enabled, as determined by `backupRetentionPeriod`.

Type: String

Required: No

### **shardInstanceCount**

The number of replica instances applying to all shards in the cluster. A `shardInstanceCount` value of 1 means there is one writer instance, and any additional instances are replicas that can be used for reads and to improve availability.

Type: Integer

Required: No

### **shards**

The total number of shards in the cluster.

Type: Array of [Shard](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ClusterInList

Service: Amazon DocumentDB Elastic Clusters

A list of Amazon DocumentDB elastic clusters.

## Contents

### Note

In the following list, the required parameters are described first.

### **clusterArn**

The ARN identifier of the elastic cluster.

Type: String

Required: Yes

### **clusterName**

The name of the elastic cluster.

Type: String

Required: Yes

### **status**

The status of the elastic cluster.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | UPDATING |  
VPC\_ENDPOINT\_LIMIT\_EXCEEDED | IP\_ADDRESS\_LIMIT\_EXCEEDED  
| INVALID\_SECURITY\_GROUP\_ID | INVALID\_SUBNET\_ID |  
INACCESSIBLE\_ENCRYPTION\_CREDS | INACCESSIBLE\_SECRET\_ARN |  
INACCESSIBLE\_VPC\_ENDPOINT | INCOMPATIBLE\_NETWORK | MERGING | MODIFYING  
| SPLITTING | COPYING | STARTING | STOPPING | STOPPED | MAINTENANCE |  
INACCESSIBLE\_ENCRYPTION\_CREDENTIALS\_RECOVERABLE

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ClusterSnapshot

Service: Amazon DocumentDB Elastic Clusters

Returns information about a specific elastic cluster snapshot.

## Contents

### Note

In the following list, the required parameters are described first.

### **adminUserName**

The name of the elastic cluster administrator.

Type: String

Required: Yes

### **clusterArn**

The ARN identifier of the elastic cluster.

Type: String

Required: Yes

### **clusterCreationTime**

The time when the elastic cluster was created in Universal Coordinated Time (UTC).

Type: String

Required: Yes

### **kmsKeyId**

The KMS key identifier is the Amazon Resource Name (ARN) for the KMS encryption key. If you are creating a cluster using the same Amazon account that owns this KMS encryption key, you can use the KMS key alias instead of the ARN as the KMS encryption key. If an encryption key is not specified here, Amazon DocumentDB uses the default encryption key that KMS creates for your account. Your account has a different default encryption key for each Amazon Region.

Type: String

Required: Yes

### **snapshotArn**

The ARN identifier of the elastic cluster snapshot.

Type: String

Required: Yes

### **snapshotCreationTime**

The time when the elastic cluster snapshot was created in Universal Coordinated Time (UTC).

Type: String

Required: Yes

### **snapshotName**

The name of the elastic cluster snapshot.

Type: String

Required: Yes

### **status**

The status of the elastic cluster snapshot.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | UPDATING |  
VPC\_ENDPOINT\_LIMIT\_EXCEEDED | IP\_ADDRESS\_LIMIT\_EXCEEDED  
| INVALID\_SECURITY\_GROUP\_ID | INVALID\_SUBNET\_ID |  
INACCESSIBLE\_ENCRYPTION\_CREDS | INACCESSIBLE\_SECRET\_ARN |  
INACCESSIBLE\_VPC\_ENDPOINT | INCOMPATIBLE\_NETWORK | MERGING | MODIFYING  
| SPLITTING | COPYING | STARTING | STOPPING | STOPPED | MAINTENANCE |  
INACCESSIBLE\_ENCRYPTION\_CREDENTIALS\_RECOVERABLE

Required: Yes

### **subnetIds**

The Amazon EC2 subnet IDs for the elastic cluster.

Type: Array of strings

Required: Yes

### **vpcSecurityGroupIds**

A list of EC2 VPC security groups to associate with the elastic cluster.

Type: Array of strings

Required: Yes

### **snapshotType**

The type of cluster snapshots to be returned. You can specify one of the following values:

- `automated` - Return all cluster snapshots that Amazon DocumentDB has automatically created for your AWS account.
- `manual` - Return all cluster snapshots that you have manually created for your AWS account.

Type: String

Valid Values: MANUAL | AUTOMATED

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ClusterSnapshotInList

Service: Amazon DocumentDB Elastic Clusters

A list of elastic cluster snapshots.

## Contents

### Note

In the following list, the required parameters are described first.

### **clusterArn**

The ARN identifier of the elastic cluster.

Type: String

Required: Yes

### **snapshotArn**

The ARN identifier of the elastic cluster snapshot.

Type: String

Required: Yes

### **snapshotCreationTime**

The time when the elastic cluster snapshot was created in Universal Coordinated Time (UTC).

Type: String

Required: Yes

### **snapshotName**

The name of the elastic cluster snapshot.

Type: String

Required: Yes

## status

The status of the elastic cluster snapshot.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | UPDATING | VPC\_ENDPOINT\_LIMIT\_EXCEEDED | IP\_ADDRESS\_LIMIT\_EXCEEDED | INVALID\_SECURITY\_GROUP\_ID | INVALID\_SUBNET\_ID | INACCESSIBLE\_ENCRYPTION\_CREDS | INACCESSIBLE\_SECRET\_ARN | INACCESSIBLE\_VPC\_ENDPOINT | INCOMPATIBLE\_NETWORK | MERGING | MODIFYING | SPLITTING | COPYING | STARTING | STOPPING | STOPPED | MAINTENANCE | INACCESSIBLE\_ENCRYPTION\_CREDENTIALS\_RECOVERABLE

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PendingMaintenanceActionDetails

Service: Amazon DocumentDB Elastic Clusters

Retrieves the details of maintenance actions that are pending.

## Contents

### Note

In the following list, the required parameters are described first.

### **action**

Displays the specific action of a pending maintenance action.

Type: String

Required: Yes

### **autoAppliedAfterDate**

Displays the date of the maintenance window when the action is applied. The maintenance action is applied to the resource during its first maintenance window after this date. If this date is specified, any NEXT\_MAINTENANCE optInType requests are ignored.

Type: String

Required: No

### **currentApplyDate**

Displays the effective date when the pending maintenance action is applied to the resource.

Type: String

Required: No

### **description**

Displays a description providing more detail about the maintenance action.

Type: String

Required: No

### **forcedApplyDate**

Displays the date when the maintenance action is automatically applied. The maintenance action is applied to the resource on this date regardless of the maintenance window for the resource. If this date is specified, any IMMEDIATE optInType requests are ignored.

Type: String

Required: No

### **optInStatus**

Displays the type of optInType request that has been received for the resource.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourcePendingMaintenanceAction

Service: Amazon DocumentDB Elastic Clusters

Provides information about a pending maintenance action for a resource.

## Contents

### Note

In the following list, the required parameters are described first.

### pendingMaintenanceActionDetails

Provides information about a pending maintenance action for a resource.

Type: Array of [PendingMaintenanceActionDetails](#) objects

Required: No

### resourceArn

The Amazon DocumentDB Amazon Resource Name (ARN) of the resource to which the pending maintenance action applies.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Shard

Service: Amazon DocumentDB Elastic Clusters

The name of the shard.

## Contents

### Note

In the following list, the required parameters are described first.

### **createTime**

The time when the shard was created in Universal Coordinated Time (UTC).

Type: String

Required: Yes

### **shardId**

The ID of the shard.

Type: String

Required: Yes

### **status**

The current status of the shard.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | UPDATING |  
VPC\_ENDPOINT\_LIMIT\_EXCEEDED | IP\_ADDRESS\_LIMIT\_EXCEEDED  
| INVALID\_SECURITY\_GROUP\_ID | INVALID\_SUBNET\_ID |  
INACCESSIBLE\_ENCRYPTION\_CREDS | INACCESSIBLE\_SECRET\_ARN |  
INACCESSIBLE\_VPC\_ENDPOINT | INCOMPATIBLE\_NETWORK | MERGING | MODIFYING  
| SPLITTING | COPYING | STARTING | STOPPING | STOPPED | MAINTENANCE |  
INACCESSIBLE\_ENCRYPTION\_CREDENTIALS\_RECOVERABLE

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ValidationExceptionField

Service: Amazon DocumentDB Elastic Clusters

A specific field in which a given validation exception occurred.

## Contents

### Note

In the following list, the required parameters are described first.

### message

An error message describing the validation exception in this field.

Type: String

Required: Yes

### name

The name of the field where the validation exception occurred.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## **IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 400

## **InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## **InvalidParameterCombination**

Parameters that must not be used together were used together. Remove one of the conflicting parameters and try again.

HTTP Status Code: 400

**InvalidParameterValue**

A value that you provided for a parameter isn't valid. Check the parameter constraints and try again.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or doesn't adhere to AWS standards. Verify the query string format and try again.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error. Verify the query string and try again.

HTTP Status Code: 404

**MissingAction**

The request is missing the Action parameter. Add the Action parameter and try again.

HTTP Status Code: 400

**MissingAuthenticationToken**

The request must contain a valid AWS access key ID or X.509 certificate. Verify that your credentials are included in the request.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action isn't included in the request. Add the missing parameter and try again.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestExpired**

The request has expired. This can happen if the request took more than 15 minutes to reach the service, the date stamp is more than 15 minutes in the future, or a pre-signed URL has expired. Generate a new request with a current timestamp and try again.

HTTP Status Code: 400

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400