



Security Information

AWS Control Catalog



AWS Control Catalog: Security Information

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Table of Contents

What is Control Catalog?	1
Ontology overview	1
Access to Control Catalog	2
Security	4
Data protection	4
Data encryption	5
Encryption in transit	6
Key management	6
Inter-network traffic privacy	6
Identity and access management	6
Audience	6
Authenticating with identities	7
Managing access using policies	10
How Control Catalog works with IAM	13
Identity-based policy examples	20
Troubleshooting	23
Compliance validation	25
Resilience	26
Infrastructure Security	27
Configuration and vulnerability	27
Monitoring	28
CloudTrail logs	28
Control Catalog information in CloudTrail	28
Understanding Control Catalog log file entries	29
AWS PrivateLink	31
Considerations	31
Create an interface endpoint	31
Create an endpoint policy	32
Document history	34

What is Control Catalog?

Welcome to the Control Catalog security information guide. The Control Catalog is a part of AWS Control Tower, which lists controls for several AWS services. It is a consolidated catalog of AWS controls. You do not need to set up AWS Control Tower to use the Control Catalog.

With the Control Catalog, you can view controls according to common use cases, including security, cost, durability, and operations.

In this document, you can find security and compliance information that you need to know, as you use the APIs that are provided by Control Catalog.

The Control Catalog embodies a Control Ontology, which is a standard classification system for controls.

Ontology overview

AWS has developed a standard classification system to help classify, organize, and create mappings among controls. This ontology can be used to map controls to existing and new regulatory standards, including 24 frameworks, as well as regulatory standards such as PCI, HIPAA, and others. We also map to industry standards such as NIST and ISO, and to Amazon-specific frameworks, including the Well-Architected framework.

The ontology has four core aspects

- **Classification of controls by Control domain, Control objective, and Common controls.** The ontology helps organize and group related controls into three levels—
 - L1: Control domain,
 - L2: Control objective,
 - L3: Common control.

These levels have a strict hierarchical relationship. That is, each domain has multiple control objectives, but each control objective must have a single parent domain. Each control objective has multiple common controls, but each common control has a single parent objective.

- **Mapping to regulatory standards.** The ontology has a concept called a *Standard control* (L4) that represents a specific requirement within a regulatory or industry standard. These Standard controls are mapped to Common controls that help address those specific requirements.

For example, **PCI-DSS v3.2.1. ID 4.1** *Use strong cryptography and security protocols to safeguard sensitive cardholder data during transmission over open, public networks* and **NIST 800.53.r5 ID SC-16** *Transmission of security and privacy attributes* are two Standard controls, both mapping to the *Encrypt data in transit* Common control.

- **Control implementations and control evidence.** The ontology has a concept of *Control implementations* (L6) that can represent either a specific control implementation in AWS, for example, an AWS Control Tower control, an AWS Security Hub check, an AWS Config rule, and so forth, or a non-technical implementation outside AWS, such as process guidance. A separate concept of *Control evidence* (L7) represents data sources that can be used as evidence for controls by AWS Audit Manager, third-party tools, or customers themselves. These evidence sources could be AWS sources such as AWS CloudTrail events, API call logs, and AWS Config rule evaluation results. Or, they could be external sources such as customer documentation.
- **The concept of a Core control (L5).** The Core control is a mapping layer that consolidates all control implementations (L6), corresponding evidence sources (L7), related standard controls (L4), and Common controls (L3) into a single holistic object. The Core control is more of a mapping document than a control itself. It helps answer the question of *show me all the info related to control X*. Each core control can have multiple control implementations (L6) and multiple evidence sources (L7).

In summary, the AWS control catalog ontology contains seven layers. Three are hierarchical classification layers (Control domains, Control objectives, Common controls). Another layer (Standard controls) describes the regulatory or industry standard requirements. A mapping layer (Core control) describes a control outcome for a given resource type. Two layers (Control implementations, Control evidences) describe the specific control implementations and evidence sources.

This ontology was designed by an AWS team of certified auditors, based on their experience working with hundreds of customers for compliance audits. The concepts of Control domains, Control objectives, Common controls, and Standard controls (L1-L4) are used industry-wide. They match common industry patterns and NIST recommendations. The remaining three layers (L5-L7) were designed based on existing AWS concepts, such as resource types and managed controls.

Access to Control Catalog

Control Catalog is available through the console and through the Control Catalog application programming interface (API). This API provides a programmatic way to identify and filter the

common controls and related metadata that are available to you as an AWS customer. For more information, see the [Control Catalog API Reference](#).

Security in Control Catalog

Cloud security at AWS is the highest priority. As an AWS customer, you benefit from data centers and network architectures that are built to meet the requirements of the most security-sensitive organizations.

Security is a shared responsibility between AWS and you. The [shared responsibility model](#) describes this as security *of* the cloud and security *in* the cloud:

- **Security of the cloud** – AWS is responsible for protecting the infrastructure that runs AWS services in the AWS Cloud. AWS also provides you with services that you can use securely. Third-party auditors regularly test and verify the effectiveness of our security as part of the [AWS Compliance Programs](#). To learn about the compliance programs that apply to Control Catalog, see [AWS Services in Scope by Compliance Program](#).
- **Security in the cloud** – Your responsibility is determined by the AWS service that you use. You are also responsible for other factors including the sensitivity of your data, your company's requirements, and applicable laws and regulations.

This documentation helps you understand how to apply the shared responsibility model when using Control Catalog;. The following topics show you how to configure Control Catalog; to meet your security and compliance objectives. You also learn how to use other AWS services that help you to monitor and secure your Control Catalog; resources.

Topics

- [Data protection in Control Catalog](#)
- [Identity and access management for Control Catalog](#)
- [Compliance validation for Control Catalog](#)
- [Resilience in Control Catalog](#)
- [Infrastructure Security in Control Catalog](#)

Data protection in Control Catalog

The AWS [shared responsibility model](#) applies to data protection in AWS Control Catalog. As described in this model, AWS is responsible for protecting the global infrastructure that runs all of the AWS Cloud. You are responsible for maintaining control over your content that is hosted on

this infrastructure. You are also responsible for the security configuration and management tasks for the AWS services that you use. For more information about data privacy, see the [Data Privacy FAQ](#). For information about data protection in Europe, see the [AWS Shared Responsibility Model and GDPR](#) blog post on the *AWS Security Blog*.

For data protection purposes, we recommend that you protect AWS account credentials and set up individual users with AWS IAM Identity Center or AWS Identity and Access Management (IAM). That way, each user is given only the permissions necessary to fulfill their job duties. We also recommend that you secure your data in the following ways:

- Use multi-factor authentication (MFA) with each account.
- Use SSL/TLS to communicate with AWS resources. We require TLS 1.2 and recommend TLS 1.3.
- Set up API and user activity logging with AWS CloudTrail. For information about using CloudTrail trails to capture AWS activities, see [Working with CloudTrail trails](#) in the *AWS CloudTrail User Guide*.
- Use AWS encryption solutions, along with all default security controls within AWS services.
- Use advanced managed security services such as Amazon Macie, which assists in discovering and securing sensitive data that is stored in Amazon S3.
- If you require FIPS 140-3 validated cryptographic modules when accessing AWS through a command line interface or an API, use a FIPS endpoint. For more information about the available FIPS endpoints, see [Federal Information Processing Standard \(FIPS\) 140-3](#).

We strongly recommend that you never put confidential or sensitive information, such as your customers' email addresses, into tags or free-form text fields such as a **Name** field. This includes when you work with AWS Control Catalog or other AWS services using the console, API, AWS CLI, or AWS SDKs. Any data that you enter into tags or free-form text fields used for names may be used for billing or diagnostic logs. If you provide a URL to an external server, we strongly recommend that you do not include credentials information in the URL to validate your request to that server.

Data encryption

AWS Control Catalog does not store any customer data.

Encryption at rest

AWS Control Catalog does not encrypt customer data. Because no customer data is persisted or retained by AWS Control Catalog, there are no specific guidelines for encryption at rest.

Encryption in transit

AWS Control Catalog does not encrypt customer data. Because no sensitive data is exchanged or persisted by AWS Control Catalog, there are no specific guidelines for encryption in transit.

Key management

Encryption key management does not apply to AWS Control Catalog.

Inter-network traffic privacy

Inter-network traffic privacy does not apply to AWS Control Catalog.

Identity and access management for Control Catalog

AWS Identity and Access Management (IAM) is an AWS service that helps an administrator securely control access to AWS resources. IAM administrators control who can be *authenticated* (signed in) and *authorized* (have permissions) to use AWS Control Catalog resources. IAM is an AWS service that you can use with no additional charge.

Topics

- [Audience](#)
- [Authenticating with identities](#)
- [Managing access using policies](#)
- [How Control Catalog works with IAM](#)
- [Identity-based policy examples for Control Catalog](#)
- [Troubleshooting Control Catalog identity and access](#)

Audience

How you use AWS Identity and Access Management (IAM) differs, depending on the work that you do in AWS Control Catalog.

Service user – If you use the AWS Control Catalog service to do your job, then your administrator provides you with the credentials and permissions that you need. As you use more AWS Control Catalog features to do your work, you might need additional permissions. Understanding how access is managed can help you request the right permissions from your administrator. If you

cannot access a feature in AWS Control Catalog, see [Troubleshooting Control Catalog identity and access](#).

Service administrator – If you're in charge of AWS Control Catalog resources at your company, you probably have full access to AWS Control Catalog. It's your job to determine which AWS Control Catalog features and resources your service users should access. You must then submit requests to your IAM administrator to change the permissions of your service users. Review the information on this page to understand the basic concepts of IAM. To learn more about how your company can use IAM with AWS Control Catalog, see [How Control Catalog works with IAM](#).

IAM administrator – If you're an IAM administrator, you might want to learn details about how you can write policies to manage access to AWS Control Catalog. To view example AWS Control Catalog identity-based policies that you can use in IAM, see [Identity-based policy examples for Control Catalog](#).

Authenticating with identities

Authentication is how you sign in to AWS using your identity credentials. You must be *authenticated* (signed in to AWS) as the AWS account root user, as an IAM user, or by assuming an IAM role.

You can sign in to AWS as a federated identity by using credentials provided through an identity source. AWS IAM Identity Center (IAM Identity Center) users, your company's single sign-on authentication, and your Google or Facebook credentials are examples of federated identities. When you sign in as a federated identity, your administrator previously set up identity federation using IAM roles. When you access AWS by using federation, you are indirectly assuming a role.

Depending on the type of user you are, you can sign in to the AWS Management Console or the AWS access portal. For more information about signing in to AWS, see [How to sign in to your AWS account](#) in the *AWS Sign-In User Guide*.

If you access AWS programmatically, AWS provides a software development kit (SDK) and a command line interface (CLI) to cryptographically sign your requests by using your credentials. If you don't use AWS tools, you must sign requests yourself. For more information about using the recommended method to sign requests yourself, see [AWS Signature Version 4 for API requests](#) in the *IAM User Guide*.

Regardless of the authentication method that you use, you might be required to provide additional security information. For example, AWS recommends that you use multi-factor authentication (MFA) to increase the security of your account. To learn more, see [Multi-factor authentication](#) in

the *AWS IAM Identity Center User Guide* and [AWS Multi-factor authentication in IAM](#) in the *IAM User Guide*.

AWS account root user

When you create an AWS account, you begin with one sign-in identity that has complete access to all AWS services and resources in the account. This identity is called the AWS account *root user* and is accessed by signing in with the email address and password that you used to create the account. We strongly recommend that you don't use the root user for your everyday tasks. Safeguard your root user credentials and use them to perform the tasks that only the root user can perform. For the complete list of tasks that require you to sign in as the root user, see [Tasks that require root user credentials](#) in the *IAM User Guide*.

Federated identity

As a best practice, require human users, including users that require administrator access, to use federation with an identity provider to access AWS services by using temporary credentials.

A *federated identity* is a user from your enterprise user directory, a web identity provider, the AWS Directory Service, the Identity Center directory, or any user that accesses AWS services by using credentials provided through an identity source. When federated identities access AWS accounts, they assume roles, and the roles provide temporary credentials.

For centralized access management, we recommend that you use AWS IAM Identity Center. You can create users and groups in IAM Identity Center, or you can connect and synchronize to a set of users and groups in your own identity source for use across all your AWS accounts and applications. For information about IAM Identity Center, see [What is IAM Identity Center?](#) in the *AWS IAM Identity Center User Guide*.

IAM users and groups

An [IAM user](#) is an identity within your AWS account that has specific permissions for a single person or application. Where possible, we recommend relying on temporary credentials instead of creating IAM users who have long-term credentials such as passwords and access keys. However, if you have specific use cases that require long-term credentials with IAM users, we recommend that you rotate access keys. For more information, see [Rotate access keys regularly for use cases that require long-term credentials](#) in the *IAM User Guide*.

An [IAM group](#) is an identity that specifies a collection of IAM users. You can't sign in as a group. You can use groups to specify permissions for multiple users at a time. Groups make permissions easier

to manage for large sets of users. For example, you could have a group named *IAMAdmins* and give that group permissions to administer IAM resources.

Users are different from roles. A user is uniquely associated with one person or application, but a role is intended to be assumable by anyone who needs it. Users have permanent long-term credentials, but roles provide temporary credentials. To learn more, see [Use cases for IAM users](#) in the *IAM User Guide*.

IAM roles

An [IAM role](#) is an identity within your AWS account that has specific permissions. It is similar to an IAM user, but is not associated with a specific person. To temporarily assume an IAM role in the AWS Management Console, you can [switch from a user to an IAM role \(console\)](#). You can assume a role by calling an AWS CLI or AWS API operation or by using a custom URL. For more information about methods for using roles, see [Methods to assume a role](#) in the *IAM User Guide*.

IAM roles with temporary credentials are useful in the following situations:

- **Federated user access** – To assign permissions to a federated identity, you create a role and define permissions for the role. When a federated identity authenticates, the identity is associated with the role and is granted the permissions that are defined by the role. For information about roles for federation, see [Create a role for a third-party identity provider \(federation\)](#) in the *IAM User Guide*. If you use IAM Identity Center, you configure a permission set. To control what your identities can access after they authenticate, IAM Identity Center correlates the permission set to a role in IAM. For information about permissions sets, see [Permission sets](#) in the *AWS IAM Identity Center User Guide*.
- **Temporary IAM user permissions** – An IAM user or role can assume an IAM role to temporarily take on different permissions for a specific task.
- **Cross-account access** – You can use an IAM role to allow someone (a trusted principal) in a different account to access resources in your account. Roles are the primary way to grant cross-account access. However, with some AWS services, you can attach a policy directly to a resource (instead of using a role as a proxy). To learn the difference between roles and resource-based policies for cross-account access, see [Cross account resource access in IAM](#) in the *IAM User Guide*.
- **Cross-service access** – Some AWS services use features in other AWS services. For example, when you make a call in a service, it's common for that service to run applications in Amazon EC2 or store objects in Amazon S3. A service might do this using the calling principal's permissions, using a service role, or using a service-linked role.

- **Forward access sessions (FAS)** – When you use an IAM user or role to perform actions in AWS, you are considered a principal. When you use some services, you might perform an action that then initiates another action in a different service. FAS uses the permissions of the principal calling an AWS service, combined with the requesting AWS service to make requests to downstream services. FAS requests are only made when a service receives a request that requires interactions with other AWS services or resources to complete. In this case, you must have permissions to perform both actions. For policy details when making FAS requests, see [Forward access sessions](#).
- **Service role** – A service role is an [IAM role](#) that a service assumes to perform actions on your behalf. An IAM administrator can create, modify, and delete a service role from within IAM. For more information, see [Create a role to delegate permissions to an AWS service](#) in the *IAM User Guide*.
- **Service-linked role** – A service-linked role is a type of service role that is linked to an AWS service. The service can assume the role to perform an action on your behalf. Service-linked roles appear in your AWS account and are owned by the service. An IAM administrator can view, but not edit the permissions for service-linked roles.
- **Applications running on Amazon EC2** – You can use an IAM role to manage temporary credentials for applications that are running on an EC2 instance and making AWS CLI or AWS API requests. This is preferable to storing access keys within the EC2 instance. To assign an AWS role to an EC2 instance and make it available to all of its applications, you create an instance profile that is attached to the instance. An instance profile contains the role and enables programs that are running on the EC2 instance to get temporary credentials. For more information, see [Use an IAM role to grant permissions to applications running on Amazon EC2 instances](#) in the *IAM User Guide*.

Managing access using policies

You control access in AWS by creating policies and attaching them to AWS identities or resources. A policy is an object in AWS that, when associated with an identity or resource, defines their permissions. AWS evaluates these policies when a principal (user, root user, or role session) makes a request. Permissions in the policies determine whether the request is allowed or denied. Most policies are stored in AWS as JSON documents. For more information about the structure and contents of JSON policy documents, see [Overview of JSON policies](#) in the *IAM User Guide*.

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

By default, users and roles have no permissions. To grant users permission to perform actions on the resources that they need, an IAM administrator can create IAM policies. The administrator can then add the IAM policies to roles, and users can assume the roles.

IAM policies define permissions for an action regardless of the method that you use to perform the operation. For example, suppose that you have a policy that allows the `iam:GetRole` action. A user with that policy can get role information from the AWS Management Console, the AWS CLI, or the AWS API.

Identity-based policies

Identity-based policies are JSON permissions policy documents that you can attach to an identity, such as an IAM user, group of users, or role. These policies control what actions users and roles can perform, on which resources, and under what conditions. To learn how to create an identity-based policy, see [Define custom IAM permissions with customer managed policies](#) in the *IAM User Guide*.

Identity-based policies can be further categorized as *inline policies* or *managed policies*. Inline policies are embedded directly into a single user, group, or role. Managed policies are standalone policies that you can attach to multiple users, groups, and roles in your AWS account. Managed policies include AWS managed policies and customer managed policies. To learn how to choose between a managed policy or an inline policy, see [Choose between managed policies and inline policies](#) in the *IAM User Guide*.

Resource-based policies

Resource-based policies are JSON policy documents that you attach to a resource. Examples of resource-based policies are IAM *role trust policies* and Amazon S3 *bucket policies*. In services that support resource-based policies, service administrators can use them to control access to a specific resource. For the resource where the policy is attached, the policy defines what actions a specified principal can perform on that resource and under what conditions. You must [specify a principal](#) in a resource-based policy. Principals can include accounts, users, roles, federated users, or AWS services.

Resource-based policies are inline policies that are located in that service. You can't use AWS managed policies from IAM in a resource-based policy.

Access control lists (ACLs)

Access control lists (ACLs) control which principals (account members, users, or roles) have permissions to access a resource. ACLs are similar to resource-based policies, although they do not use the JSON policy document format.

Amazon S3, AWS WAF, and Amazon VPC are examples of services that support ACLs. To learn more about ACLs, see [Access control list \(ACL\) overview](#) in the *Amazon Simple Storage Service Developer Guide*.

Other policy types

AWS supports additional, less-common policy types. These policy types can set the maximum permissions granted to you by the more common policy types.

- **Permissions boundaries** – A permissions boundary is an advanced feature in which you set the maximum permissions that an identity-based policy can grant to an IAM entity (IAM user or role). You can set a permissions boundary for an entity. The resulting permissions are the intersection of an entity's identity-based policies and its permissions boundaries. Resource-based policies that specify the user or role in the `Principal` field are not limited by the permissions boundary. An explicit deny in any of these policies overrides the allow. For more information about permissions boundaries, see [Permissions boundaries for IAM entities](#) in the *IAM User Guide*.
- **Service control policies (SCPs)** – SCPs are JSON policies that specify the maximum permissions for an organization or organizational unit (OU) in AWS Organizations. AWS Organizations is a service for grouping and centrally managing multiple AWS accounts that your business owns. If you enable all features in an organization, then you can apply service control policies (SCPs) to any or all of your accounts. The SCP limits permissions for entities in member accounts, including each AWS account root user. For more information about Organizations and SCPs, see [Service control policies](#) in the *AWS Organizations User Guide*.
- **Resource control policies (RCPs)** – RCPs are JSON policies that you can use to set the maximum available permissions for resources in your accounts without updating the IAM policies attached to each resource that you own. The RCP limits permissions for resources in member accounts and can impact the effective permissions for identities, including the AWS account root user, regardless of whether they belong to your organization. For more information about Organizations and RCPs, including a list of AWS services that support RCPs, see [Resource control policies \(RCPs\)](#) in the *AWS Organizations User Guide*.
- **Session policies** – Session policies are advanced policies that you pass as a parameter when you programmatically create a temporary session for a role or federated user. The resulting session's

permissions are the intersection of the user or role's identity-based policies and the session policies. Permissions can also come from a resource-based policy. An explicit deny in any of these policies overrides the allow. For more information, see [Session policies](#) in the *IAM User Guide*.

Multiple policy types

When multiple types of policies apply to a request, the resulting permissions are more complicated to understand. To learn how AWS determines whether to allow a request when multiple policy types are involved, see [Policy evaluation logic](#) in the *IAM User Guide*.

How Control Catalog works with IAM

Before you use IAM to manage access to AWS Control Catalog, learn what IAM features are available to use with AWS Control Catalog.

IAM features you can use with Control Catalog

IAM feature	AWS Control Catalog support
Identity-based policies	Yes
Resource-based policies	No
Policy actions	Yes
Policy resources	Yes
Policy condition keys	Yes
ACLs	No
ABAC (tags in policies)	No
Temporary credentials	Yes
Principal permissions	No
Service roles	No
Service-linked roles	No

To get a high-level view of how AWS Control Catalog and other AWS services work with most IAM features, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Identity-based policies for AWS Control Catalog

Supports identity-based policies: Yes

Identity-based policies are JSON permissions policy documents that you can attach to an identity, such as an IAM user, group of users, or role. These policies control what actions users and roles can perform, on which resources, and under what conditions. To learn how to create an identity-based policy, see [Define custom IAM permissions with customer managed policies](#) in the *IAM User Guide*.

With IAM identity-based policies, you can specify allowed or denied actions and resources as well as the conditions under which actions are allowed or denied. You can't specify the principal in an identity-based policy because it applies to the user or role to which it is attached. To learn about all of the elements that you can use in a JSON policy, see [IAM JSON policy elements reference](#) in the *IAM User Guide*.

Identity-based policy examples for AWS Control Catalog

To view examples of AWS Control Catalog identity-based policies, see [Identity-based policy examples for Control Catalog](#).

Resource-based policies within AWS Control Catalog

Supports resource-based policies: No

Resource-based policies are JSON policy documents that you attach to a resource. Examples of resource-based policies are IAM *role trust policies* and Amazon S3 *bucket policies*. In services that support resource-based policies, service administrators can use them to control access to a specific resource. For the resource where the policy is attached, the policy defines what actions a specified principal can perform on that resource and under what conditions. You must [specify a principal](#) in a resource-based policy. Principals can include accounts, users, roles, federated users, or AWS services.

To enable cross-account access, you can specify an entire account or IAM entities in another account as the principal in a resource-based policy. Adding a cross-account principal to a resource-based policy is only half of establishing the trust relationship. When the principal and the resource are in different AWS accounts, an IAM administrator in the trusted account must also grant

the principal entity (user or role) permission to access the resource. They grant permission by attaching an identity-based policy to the entity. However, if a resource-based policy grants access to a principal in the same account, no additional identity-based policy is required. For more information, see [Cross account resource access in IAM](#) in the *IAM User Guide*.

Policy actions for AWS Control Catalog

Supports policy actions: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The Action element of a JSON policy describes the actions that you can use to allow or deny access in a policy. Policy actions usually have the same name as the associated AWS API operation. There are some exceptions, such as *permission-only actions* that don't have a matching API operation. There are also some operations that require multiple actions in a policy. These additional actions are called *dependent actions*.

Include actions in a policy to grant permissions to perform the associated operation.

To see a list of AWS Control Catalog actions, see [Actions defined by AWS Control Catalog](#) in the *Service Authorization Reference*.

Policy actions in AWS Control Catalog use the following prefix before the action:

```
controlcatalog
```

To specify multiple actions in a single statement, separate them with commas.

```
"Action": [  
    "controlcatalog:ListCommonControls",  
    "controlcatalog:ListDomains"  
]
```

You can specify multiple actions using wildcards (*). For example, to specify all actions that begin with the word List, include the following action.

```
"Action": "controlcatalog:List*"
```

To view examples of AWS Control Catalog identity-based policies, see [Identity-based policy examples for Control Catalog](#).

Policy resources for AWS Control Catalog

Supports policy resources: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The Resource JSON policy element specifies the object or objects to which the action applies. Statements must include either a Resource or a NotResource element. As a best practice, specify a resource using its [Amazon Resource Name \(ARN\)](#). You can do this for actions that support a specific resource type, known as *resource-level permissions*.

For actions that don't support resource-level permissions, such as listing operations, use a wildcard (*) to indicate that the statement applies to all resources.

```
"Resource": "*"
```

To see a list of AWS Control Catalog resource types and their ARNs, see [Resources defined by AWS Control Catalog](#) in the *Service Authorization Reference*. To learn with which actions you can specify the ARN of each resource, see [Actions defined by AWS Control Catalog](#).

An AWS Control Catalog domain has the following Amazon Resource Name (ARN) format:

```
arn:${Partition}:controlcatalog:::domain/${domainId}
```

An AWS Control Catalog objective has the following ARN format:

```
arn:${Partition}:controlcatalog:::objective/${objectiveId}
```

An AWS Control Catalog common control has the following ARN format:

```
arn:${Partition}:controlcatalog:::commonControl/${commonControlId}
```

For more information about the format of ARNs, see [Amazon Resource Names \(ARNs\)](#).

For example, to specify the `i-1234567890abcdef0` domain in your statement, use the following ARN.

```
"Resource": "arn:aws:controlcatalog:::domain/i-1234567890abcdef0"
```

To specify all instances that belong to a specific account, use the wildcard (*).

```
"Resource": "arn:aws:controlcatalog:::domain/*"
```

Some AWS Control Catalog actions, such as those for creating resources, cannot be performed on a specific resource. In those cases, you must use the wildcard (*).

```
"Resource": "*" 
```

Some AWS Control Catalog API actions support multiple resources. For example, `ListCommonControls` accesses a common control, an objective, and a domain, so a principal must have permissions to access each of these resources. To specify multiple resources in a single statement, separate the ARNs with commas.

```
"Resource": [
    "commonControl",
    "objective",
    "domain"
```

To view examples of AWS Control Catalog identity-based policies, see [Identity-based policy examples for Control Catalog](#).

Policy condition keys for AWS Control Catalog

Supports service-specific policy condition keys: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The `Condition` element (or *Condition block*) lets you specify conditions in which a statement is in effect. The `Condition` element is optional. You can create conditional expressions that use

[condition operators](#), such as equals or less than, to match the condition in the policy with values in the request.

If you specify multiple Condition elements in a statement, or multiple keys in a single Condition element, AWS evaluates them using a logical AND operation. If you specify multiple values for a single condition key, AWS evaluates the condition using a logical OR operation. All of the conditions must be met before the statement's permissions are granted.

You can also use placeholder variables when you specify conditions. For example, you can grant an IAM user permission to access a resource only if it is tagged with their IAM user name. For more information, see [IAM policy elements: variables and tags](#) in the *IAM User Guide*.

AWS supports global condition keys and service-specific condition keys. To see all AWS global condition keys, see [AWS global condition context keys](#) in the *IAM User Guide*.

To see a list of AWS Control Catalog condition keys, see [Condition keys for AWS Control Catalog](#) in the *Service Authorization Reference*. To learn with which actions and resources you can use a condition key, see [Actions defined by AWS Control Catalog](#).

To view examples of AWS Control Catalog identity-based policies, see [Identity-based policy examples for Control Catalog](#).

ACLs in AWS Control Catalog

Supports ACLs: No

Access control lists (ACLs) control which principals (account members, users, or roles) have permissions to access a resource. ACLs are similar to resource-based policies, although they do not use the JSON policy document format.

ABAC with AWS Control Catalog

Supports ABAC (tags in policies): No

Attribute-based access control (ABAC) is an authorization strategy that defines permissions based on attributes. In AWS, these attributes are called *tags*. You can attach tags to IAM entities (users or roles) and to many AWS resources. Tagging entities and resources is the first step of ABAC. Then you design ABAC policies to allow operations when the principal's tag matches the tag on the resource that they are trying to access.

ABAC is helpful in environments that are growing rapidly and helps with situations where policy management becomes cumbersome.

To control access based on tags, you provide tag information in the [condition element](#) of a policy using the `aws:ResourceTag/key-name`, `aws:RequestTag/key-name`, or `aws:TagKeys` condition keys.

If a service supports all three condition keys for every resource type, then the value is **Yes** for the service. If a service supports all three condition keys for only some resource types, then the value is **Partial**.

For more information about ABAC, see [Define permissions with ABAC authorization](#) in the *IAM User Guide*. To view a tutorial with steps for setting up ABAC, see [Use attribute-based access control \(ABAC\)](#) in the *IAM User Guide*.

Using temporary credentials with AWS Control Catalog

Supports temporary credentials: Yes

Some AWS services don't work when you sign in using temporary credentials. For additional information, including which AWS services work with temporary credentials, see [AWS services that work with IAM](#) in the *IAM User Guide*.

You are using temporary credentials if you sign in to the AWS Management Console using any method except a user name and password. For example, when you access AWS using your company's single sign-on (SSO) link, that process automatically creates temporary credentials. You also automatically create temporary credentials when you sign in to the console as a user and then switch roles. For more information about switching roles, see [Switch from a user to an IAM role \(console\)](#) in the *IAM User Guide*.

You can manually create temporary credentials using the AWS CLI or AWS API. You can then use those temporary credentials to access AWS. AWS recommends that you dynamically generate temporary credentials instead of using long-term access keys. For more information, see [Temporary security credentials in IAM](#).

Cross-service principal permissions for AWS Control Catalog

Supports forward access sessions (FAS): No

When you use an IAM user or role to perform actions in AWS, you are considered a principal. When you use some services, you might perform an action that then initiates another action in a

different service. FAS uses the permissions of the principal calling an AWS service, combined with the requesting AWS service to make requests to downstream services. FAS requests are only made when a service receives a request that requires interactions with other AWS services or resources to complete. In this case, you must have permissions to perform both actions. For policy details when making FAS requests, see [Forward access sessions](#).

Service roles for AWS Control Catalog

Supports service roles: No

A service role is an [IAM role](#) that a service assumes to perform actions on your behalf. An IAM administrator can create, modify, and delete a service role from within IAM. For more information, see [Create a role to delegate permissions to an AWS service](#) in the *IAM User Guide*.

Warning

Changing the permissions for a service role might break AWS Control Catalog functionality. Edit service roles only when AWS Control Catalog provides guidance to do so.

Service-linked roles for AWS Control Catalog

Supports service-linked roles: No

A service-linked role is a type of service role that is linked to an AWS service. The service can assume the role to perform an action on your behalf. Service-linked roles appear in your AWS account and are owned by the service. An IAM administrator can view, but not edit the permissions for service-linked roles.

For details about creating or managing service-linked roles, see [AWS services that work with IAM](#). Find a service in the table that includes a Yes in the **Service-linked role** column. Choose the **Yes** link to view the service-linked role documentation for that service.

Identity-based policy examples for Control Catalog

By default, users and roles don't have permission to create or modify AWS Control Catalog resources. They also can't perform tasks by using the AWS Management Console, AWS Command Line Interface (AWS CLI), or AWS API. To grant users permission to perform actions on the resources that they need, an IAM administrator can create IAM policies. The administrator can then add the IAM policies to roles, and users can assume the roles.

To learn how to create an IAM identity-based policy by using these example JSON policy documents, see [Create IAM policies \(console\)](#) in the *IAM User Guide*.

For details about actions and resource types defined by AWS Control Catalog, including the format of the ARNs for each of the resource types, see [Actions, resources, and condition keys for AWS Control Catalog](#) in the *Service Authorization Reference*.

Topics

- [Policy best practices](#)
- [Allow users to view their own permissions](#)
- [Allow users to view resources from AWS Control Catalog](#)

Policy best practices

Identity-based policies determine whether someone can create, access, or delete AWS Control Catalog resources in your account. These actions can incur costs for your AWS account. When you create or edit identity-based policies, follow these guidelines and recommendations:

- **Get started with AWS managed policies and move toward least-privilege permissions** – To get started granting permissions to your users and workloads, use the *AWS managed policies* that grant permissions for many common use cases. They are available in your AWS account. We recommend that you reduce permissions further by defining AWS customer managed policies that are specific to your use cases. For more information, see [AWS managed policies](#) or [AWS managed policies for job functions](#) in the *IAM User Guide*.
- **Apply least-privilege permissions** – When you set permissions with IAM policies, grant only the permissions required to perform a task. You do this by defining the actions that can be taken on specific resources under specific conditions, also known as *least-privilege permissions*. For more information about using IAM to apply permissions, see [Policies and permissions in IAM](#) in the *IAM User Guide*.
- **Use conditions in IAM policies to further restrict access** – You can add a condition to your policies to limit access to actions and resources. For example, you can write a policy condition to specify that all requests must be sent using SSL. You can also use conditions to grant access to service actions if they are used through a specific AWS service, such as AWS CloudFormation. For more information, see [IAM JSON policy elements: Condition](#) in the *IAM User Guide*.
- **Use IAM Access Analyzer to validate your IAM policies to ensure secure and functional permissions** – IAM Access Analyzer validates new and existing policies so that the policies

adhere to the IAM policy language (JSON) and IAM best practices. IAM Access Analyzer provides more than 100 policy checks and actionable recommendations to help you author secure and functional policies. For more information, see [Validate policies with IAM Access Analyzer](#) in the *IAM User Guide*.

- **Require multi-factor authentication (MFA)** – If you have a scenario that requires IAM users or a root user in your AWS account, turn on MFA for additional security. To require MFA when API operations are called, add MFA conditions to your policies. For more information, see [Secure API access with MFA](#) in the *IAM User Guide*.

For more information about best practices in IAM, see [Security best practices in IAM](#) in the *IAM User Guide*.

Allow users to view their own permissions

This example shows how you might create a policy that allows IAM users to view the inline and managed policies that are attached to their user identity. This policy includes permissions to complete this action on the console or programmatically using the AWS CLI or AWS API.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "ViewOwnUserInfo",
      "Effect": "Allow",
      "Action": [
        "iam:GetUserPolicy",
        "iam:ListGroupsForUser",
        "iam:ListAttachedUserPolicies",
        "iam:ListUserPolicies",
        "iam:GetUser"
      ],
      "Resource": ["arn:aws:iam::*:user/${aws:username}"]
    },
    {
      "Sid": "NavigateInConsole",
      "Effect": "Allow",
      "Action": [
        "iam:GetGroupPolicy",
        "iam:GetPolicyVersion",
        "iam:GetPolicy",
        "iam:ListAttachedGroupPolicies",

```

```

        "iam:ListGroupPolicies",
        "iam:ListPolicyVersions",
        "iam:ListPolicies",
        "iam:ListUsers"
    ],
    "Resource": "*"
}
]
}

```

Allow users to view resources from AWS Control Catalog

The following policy grants permissions to list domains, objectives, and common controls from AWS Control Catalog.

JSON

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "ManageControlCatalogAccess",
      "Effect": "Allow",
      "Action": [
        "controlcatalog:ListDomains",
        "controlcatalog:ListObjectives",
        "controlcatalog:ListCommonControls"
      ],
      "Resource": "*"
    }
  ]
}

```

Troubleshooting Control Catalog identity and access

Use the following information to help you diagnose and fix common issues that you might encounter when working with AWS Control Catalog and IAM.

Topics

- [I am not authorized to perform an action in Control Catalog](#)
- [I am not authorized to perform iam:PassRole](#)
- [I want to give people outside of my AWS account access to my Control Catalog resources](#)

I am not authorized to perform an action in Control Catalog

If you receive an error that you're not authorized to perform an action, your policies must be updated to allow you to perform the action.

The following example error occurs when the mateojackson IAM user tries to use the console to view details about a fictional *my-example-widget* resource but doesn't have the fictional controlcatalog:*GetWidget* permissions.

```
User: arn:aws:iam::123456789012:user/mateojackson is not authorized to perform:
controlcatalog:GetWidget on resource: my-example-widget
```

In this case, the policy for the mateojackson user must be updated to allow access to the *my-example-widget* resource by using the controlcatalog:*GetWidget* action.

If you need help, contact your AWS administrator. Your administrator is the person who provided you with your sign-in credentials.

I am not authorized to perform iam:PassRole

If you receive an error that you're not authorized to perform the iam:PassRole action, your policies must be updated to allow you to pass a role to AWS Control Catalog.

Some AWS services allow you to pass an existing role to that service instead of creating a new service role or service-linked role. To do this, you must have permissions to pass the role to the service.

The following example error occurs when an IAM user named marymajor tries to use the console to perform an action in AWS Control Catalog. However, the action requires the service to have permissions that are granted by a service role. Mary does not have permissions to pass the role to the service.

```
User: arn:aws:iam::123456789012:user/marymajor is not authorized to perform:
iam:PassRole
```

In this case, Mary's policies must be updated to allow her to perform the `iam:PassRole` action.

If you need help, contact your AWS administrator. Your administrator is the person who provided you with your sign-in credentials.

I want to give people outside of my AWS account access to my Control Catalog resources

You can create a role that users in other accounts or people outside of your organization can use to access your resources. You can specify who is trusted to assume the role. For services that support resource-based policies or access control lists (ACLs), you can use those policies to grant people access to your resources.

To learn more, consult the following:

- To learn whether AWS Control Catalog supports these features, see [How Control Catalog works with IAM](#).
- To learn how to provide access to your resources across AWS accounts that you own, see [Providing access to an IAM user in another AWS account that you own](#) in the *IAM User Guide*.
- To learn how to provide access to your resources to third-party AWS accounts, see [Providing access to AWS accounts owned by third parties](#) in the *IAM User Guide*.
- To learn how to provide access through identity federation, see [Providing access to externally authenticated users \(identity federation\)](#) in the *IAM User Guide*.
- To learn the difference between using roles and resource-based policies for cross-account access, see [Cross account resource access in IAM](#) in the *IAM User Guide*.

Compliance validation for Control Catalog

To learn whether an AWS service is within the scope of specific compliance programs, see [AWS services in Scope by Compliance Program](#) and choose the compliance program that you are interested in. For general information, see [AWS Compliance Programs](#).

You can download third-party audit reports using AWS Artifact. For more information, see [Downloading Reports in AWS Artifact](#).

Your compliance responsibility when using AWS services is determined by the sensitivity of your data, your company's compliance objectives, and applicable laws and regulations. AWS provides the following resources to help with compliance:

- [Security Compliance & Governance](#) – These solution implementation guides discuss architectural considerations and provide steps for deploying security and compliance features.
- [HIPAA Eligible Services Reference](#) – Lists HIPAA eligible services. Not all AWS services are HIPAA eligible.
- [AWS Compliance Resources](#) – This collection of workbooks and guides might apply to your industry and location.
- [AWS Customer Compliance Guides](#) – Understand the shared responsibility model through the lens of compliance. The guides summarize the best practices for securing AWS services and map the guidance to security controls across multiple frameworks (including National Institute of Standards and Technology (NIST), Payment Card Industry Security Standards Council (PCI), and International Organization for Standardization (ISO)).
- [Evaluating Resources with Rules](#) in the *AWS Config Developer Guide* – The AWS Config service assesses how well your resource configurations comply with internal practices, industry guidelines, and regulations.
- [AWS Security Hub](#) – This AWS service provides a comprehensive view of your security state within AWS. Security Hub uses security controls to evaluate your AWS resources and to check your compliance against security industry standards and best practices. For a list of supported services and controls, see [Security Hub controls reference](#).
- [Amazon GuardDuty](#) – This AWS service detects potential threats to your AWS accounts, workloads, containers, and data by monitoring your environment for suspicious and malicious activities. GuardDuty can help you address various compliance requirements, like PCI DSS, by meeting intrusion detection requirements mandated by certain compliance frameworks.
- [AWS Audit Manager](#) – This AWS service helps you continuously audit your AWS usage to simplify how you manage risk and compliance with regulations and industry standards.

Resilience in Control Catalog

The AWS global infrastructure is built around AWS Regions and Availability Zones. AWS Regions provide multiple physically separated and isolated Availability Zones, which are connected with low-latency, high-throughput, and highly redundant networking. With Availability Zones, you can design and operate applications and databases that automatically fail over between zones without interruption. Availability Zones are more highly available, fault tolerant, and scalable than traditional single or multiple data center infrastructures.

For more information about AWS Regions and Availability Zones, see [AWS Global Infrastructure](#).

Infrastructure Security in Control Catalog

As a managed service, Control Catalog is protected by the AWS global network security procedures that are described in the [Amazon Web Services: Overview of Security Processes](#) whitepaper.

You use AWS published API calls to access Control Catalog through the network. Clients must support Transport Layer Security (TLS) 1.0 or later. We recommend TLS 1.2 or later. Clients must also support cipher suites with perfect forward secrecy (PFS) such as DHE (Ephemeral Diffie-Hellman) or ECDHE (Elliptic Curve Ephemeral Diffie-Hellman). Most modern systems such as Java 7 and later support these modes.

Additionally, requests must be signed by using an access key ID and a secret access key that is associated with an IAM principal. Or you can use the [AWS Security Token Service](#) (AWS STS) to generate temporary security credentials to sign requests.

Configuration and vulnerability analysis in Control Catalog

Configuration and IT controls are a shared responsibility between AWS and you, our customer. For more information, see the AWS [shared responsibility model](#).

Monitoring AWS Control Catalog

Monitoring is an important part of maintaining the reliability, availability, and performance of AWS Control Catalog and your other AWS solutions. AWS provides the following monitoring tools to watch AWS Control Catalog, report when something is wrong, and take automatic actions when appropriate:

- *AWS CloudTrail* captures API calls and related events made by or on behalf of your AWS account and delivers the log files to an Amazon S3 bucket that you specify. You can identify which users and accounts called AWS, the source IP address from which the calls were made, and when the calls occurred. For more information, see the [AWS CloudTrail User Guide](#).

Logging Control Catalog API calls using AWS CloudTrail

As part of AWS Control Tower Control Catalog is integrated with AWS CloudTrail, a service that provides a record of actions taken by a user, role, or an AWS service.. CloudTrail captures all API calls for Control Catalog as events. The calls captured include calls directly from the AWS Control Tower console such as to enable or disable a control, and code calls to the Control Catalog API operations. If you create a trail, you can enable continuous delivery of CloudTrail events to an Amazon S3 bucket, including events that pertain to the controls in Control Catalog. If you don't configure a trail, you can still view the most recent events in the CloudTrail console in **Event history**. Using the information collected by CloudTrail, you can determine the request that was made to Control Catalog (by means of AWS Control Tower), the IP address from which the request was made, who made the request, when it was made, and additional details.

To learn more about CloudTrail, see the [AWS CloudTrail User Guide](#).

Control Catalog information in CloudTrail

CloudTrail is enabled on your AWS account when you create the account. When activity occurs in Control Catalog, that activity is recorded in a CloudTrail event along with other AWS service events in **Event history**. You can view, search, and download recent events in your AWS account. For more information, see [Viewing events with CloudTrail Event history](#).

For an ongoing record of events in your AWS account, including events for Control Catalog, create a trail. A *trail* enables CloudTrail to deliver log files to an Amazon S3 bucket. By default, when you create a trail in the console, the trail applies to all AWS Regions. The trail logs events from all

Regions in the AWS partition and delivers the log files to the Amazon S3 bucket that you specify. Additionally, you can configure other AWS services to further analyze and act upon the event data collected in CloudTrail logs. For more information, see the following:

- [Overview for creating a trail](#)
- [CloudTrail supported services and integrations](#)
- [Configuring Amazon SNS notifications for CloudTrail](#)
- [Receiving CloudTrail log files from multiple regions](#) and [Receiving CloudTrail log files from multiple accounts](#)

All Control Catalog actions are logged by CloudTrail and are documented in the [Control Catalog API Reference](#). For example, calls to the `ListCommonControls`, `ListObjectives`, and `ListDomains` actions generate entries in the CloudTrail log files.

Every event or log entry contains information about who generated the request. The identity information helps you determine the following:

- Whether the request was made with root or AWS Identity and Access Management (IAM) user credentials.
- Whether the request was made with temporary security credentials for a role or federated user.
- Whether the request was made by another AWS service.

For more information, see the [CloudTrail `userIdentity` element](#).

Understanding Control Catalog log file entries

A trail is a configuration that enables delivery of events as log files to an Amazon S3 bucket that you specify. CloudTrail log files contain one or more log entries. An event represents a single request from any source and includes information about the requested action, the date and time of the action, request parameters, and so on. CloudTrail log files aren't an ordered stack trace of the public API calls, so they don't appear in any specific order.

The following example shows a CloudTrail log entry that demonstrates the `ListDomains` action.

```
{
  eventVersion:"1.05",
  userIdentity:{
```



```
    type:"IAMUser",
    principalId:"principalId",
    arn:"arn:aws:iam::accountId:user/userName",
    accountId:"111122223333",
    accessKeyId:"accessKeyId",
    userName:"userName",
    sessionContext:{
      sessionIssuer:{
      },
      webIdFederationData:{
      },
      attributes:{
        mfaAuthenticated:"false",
        creationDate:"2020-11-19T07:32:06Z"
      }
    }
  },
  eventTime:"2020-11-19T07:32:36Z",
  eventSource:"controlcatalog.amazonaws.com",
  eventName:"ListDomains",
  awsRegion:"us-west-2",
  sourceIPAddress:"sourceIPAddress",
  userAgent:"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/87.0.4280.66 Safari/537.36",
  requestParameters: null,
  responseElements: null,
  requestId:"0d950f8c-5211-40db-8c37-2ed38ffcc894",
  eventId:"a782029a-959e-4549-81df-9f6596775cb0",
  readOnly:false,
  eventType:"AwsApiCall",
  recipientAccountId:"recipientAccountId"
}
```

Access Control Catalog using an interface endpoint (AWS PrivateLink)

You can use AWS PrivateLink to create a private connection between your VPC and Control Catalog. You can access AWS Control Catalog as if it were in your VPC, without the use of an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection. Instances in your VPC don't need public IP addresses to access Control Catalog.

You establish this private connection by creating an *interface endpoint*, powered by AWS PrivateLink. We create an endpoint network interface in each subnet that you enable for the interface endpoint. These are requester-managed network interfaces that serve as the entry point for traffic destined for Control Catalog.

For more information, see [Access AWS services through AWS PrivateLink](#) in the *AWS PrivateLink Guide*.

Considerations for AWS Control Catalog

Before you set up an interface endpoint for Control Catalog, review [Considerations](#) in the *AWS PrivateLink Guide*.

Control Catalog supports making calls to all of its API actions through the interface endpoint.

Create an interface endpoint for Control Catalog

You can create an interface endpoint for Control Catalog using either the Amazon VPC console or the AWS Command Line Interface (AWS CLI). For more information, see [Create an interface endpoint](#) in the *AWS PrivateLink Guide*.

Create an interface endpoint for Control Catalog using the following service name:

```
com.amazonaws.region.controlcatalog
```

If you enable private DNS for the interface endpoint, you can make API requests to Control Catalog using its default Regional DNS name. For example, `service-name.us-east-1.amazonaws.com`.

Create an endpoint policy for your interface endpoint

An endpoint policy is an IAM resource that you can attach to an interface endpoint. The default endpoint policy allows full access to Control Catalog through the interface endpoint. To control the access allowed to Control Catalog from your VPC, attach a custom endpoint policy to the interface endpoint.

An endpoint policy specifies the following information:

- The principals that can perform actions (AWS accounts, IAM users, and IAM roles).
- The actions that can be performed.
- The resources on which the actions can be performed.

For more information, see [Control access to services using endpoint policies](#) in the *AWS PrivateLink Guide*.

Example: VPC endpoint policy for Control Catalog actions

The following is an example of a custom endpoint policy. When you attach this policy to your interface endpoint, it grants access to the listed AWS Control Catalog actions for all principals on all resources.

```
{
  "Statement": [
    {
      "Principal": "*",
      "Effect": "Allow",
      "Action": [
        "controlcatalog:ListDomains",
        "controlcatalog:ListObjectives",
        "controlcatalog:ListCommonControls"
      ],
      "Resource": "*"
    }
  ]
}
```

Note

The `GetControl` and `ListControls` API operations require a different permission, the default full permission. For an example, see [the Default endpoint policy](#).

Document history for the Control Catalog security information guide

The following table describes the documentation releases for Control Catalog.

Change	Description	Date
Initial release	Initial release of the Control Catalog APIs and security information guide.	April 8, 2024