



Amazon Bedrock AgentCore API Reference

Amazon Bedrock AgentCore



API Version 2024-02-28

Copyright © 2025 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon Bedrock AgentCore: Amazon Bedrock AgentCore API Reference

Copyright © 2025 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Welcome	1
Actions	2
CreateEvent	3
Request Syntax	3
URI Request Parameters	3
Request Body	4
Response Syntax	5
Response Elements	6
Errors	6
See Also	7
DeleteEvent	9
Request Syntax	9
URI Request Parameters	9
Request Body	10
Response Syntax	10
Response Elements	10
Errors	10
See Also	12
DeleteMemoryRecord	13
Request Syntax	13
URI Request Parameters	13
Request Body	13
Response Syntax	13
Response Elements	14
Errors	14
See Also	15
GetBrowserSession	17
Request Syntax	17
URI Request Parameters	17
Request Body	17
Response Syntax	18
Response Elements	18
Errors	20
See Also	21

GetCodeInterpreterSession	22
Request Syntax	22
URI Request Parameters	22
Request Body	23
Response Syntax	23
Response Elements	23
Errors	24
See Also	25
GetEvent	27
Request Syntax	27
URI Request Parameters	27
Request Body	28
Response Syntax	28
Response Elements	28
Errors	29
See Also	30
GetMemoryRecord	31
Request Syntax	31
URI Request Parameters	31
Request Body	31
Response Syntax	31
Response Elements	32
Errors	32
See Also	33
GetResourceApiKey	35
Request Syntax	35
URI Request Parameters	35
Request Body	35
Response Syntax	36
Response Elements	36
Errors	36
See Also	37
GetResourceOAuth2Token	39
Request Syntax	39
URI Request Parameters	39
Request Body	39

Response Syntax	41
Response Elements	41
Errors	42
See Also	43
GetWorkloadAccessToken	45
Request Syntax	45
URI Request Parameters	45
Request Body	45
Response Syntax	45
Response Elements	46
Errors	46
See Also	47
GetWorkloadAccessTokenForJWT	49
Request Syntax	49
URI Request Parameters	49
Request Body	49
Response Syntax	50
Response Elements	50
Errors	50
See Also	51
GetWorkloadAccessTokenForUserId	53
Request Syntax	53
URI Request Parameters	53
Request Body	53
Response Syntax	54
Response Elements	54
Errors	54
See Also	55
InvokeAgentRuntime	57
Request Syntax	57
URI Request Parameters	57
Request Body	59
Response Syntax	59
Response Elements	60
Errors	61
See Also	62

InvokeCodeInterpreter	64
Request Syntax	64
URI Request Parameters	65
Request Body	65
Response Syntax	66
Response Elements	67
Errors	69
See Also	70
ListActors	72
Request Syntax	72
URI Request Parameters	72
Request Body	72
Response Syntax	73
Response Elements	73
Errors	74
See Also	75
ListBrowserSessions	76
Request Syntax	76
URI Request Parameters	76
Request Body	77
Response Syntax	77
Response Elements	78
Errors	78
See Also	79
ListCodeInterpreterSessions	81
Request Syntax	81
URI Request Parameters	81
Request Body	82
Response Syntax	82
Response Elements	83
Errors	83
See Also	84
ListEvents	86
Request Syntax	86
URI Request Parameters	86
Request Body	87

Response Syntax	88
Response Elements	88
Errors	89
See Also	90
ListMemoryRecords	91
Request Syntax	91
URI Request Parameters	91
Request Body	91
Response Syntax	92
Response Elements	93
Errors	93
See Also	95
ListSessions	96
Request Syntax	96
URI Request Parameters	96
Request Body	97
Response Syntax	97
Response Elements	97
Errors	98
See Also	99
RetrieveMemoryRecords	101
Request Syntax	101
URI Request Parameters	101
Request Body	101
Response Syntax	102
Response Elements	103
Errors	103
See Also	105
StartBrowserSession	106
Request Syntax	106
URI Request Parameters	106
Request Body	107
Response Syntax	108
Response Elements	108
Errors	109
See Also	110

StartCodeInterpreterSession	112
Request Syntax	112
URI Request Parameters	112
Request Body	113
Response Syntax	114
Response Elements	114
Errors	114
See Also	116
StopBrowserSession	117
Request Syntax	117
URI Request Parameters	117
Request Body	118
Response Syntax	118
Response Elements	118
Errors	119
See Also	120
StopCodeInterpreterSession	122
Request Syntax	122
URI Request Parameters	122
Request Body	123
Response Syntax	123
Response Elements	123
Errors	124
See Also	125
UpdateBrowserStream	127
Request Syntax	127
URI Request Parameters	127
Request Body	127
Response Syntax	128
Response Elements	128
Errors	129
See Also	130
Data Types	132
ActorSummary	134
Contents	134
See Also	134

AutomationStream	135
Contents	135
See Also	135
AutomationStreamUpdate	136
Contents	136
See Also	136
Branch	137
Contents	137
See Also	137
BranchFilter	138
Contents	138
See Also	138
BrowserSessionStream	139
Contents	139
See Also	139
BrowserSessionSummary	140
Contents	140
See Also	141
CodeInterpreterResult	142
Contents	142
See Also	142
CodeInterpreterSessionSummary	144
Contents	144
See Also	145
CodeInterpreterStreamOutput	146
Contents	146
See Also	148
Content	149
Contents	149
See Also	149
ContentBlock	150
Contents	150
See Also	151
Conversational	152
Contents	152
See Also	152

Event	153
Contents	153
See Also	154
FilterInput	155
Contents	155
See Also	155
InputContentBlock	156
Contents	156
See Also	156
LiveViewStream	158
Contents	158
See Also	158
MemoryContent	159
Contents	159
See Also	159
MemoryRecord	160
Contents	160
See Also	161
MemoryRecordSummary	162
Contents	162
See Also	163
PayloadType	164
Contents	164
See Also	164
ResourceContent	165
Contents	165
See Also	166
SearchCriteria	167
Contents	167
See Also	167
SessionSummary	169
Contents	169
See Also	169
StreamUpdate	171
Contents	171
See Also	171

ToolArguments	172
Contents	172
See Also	174
ToolResultStructuredContent	175
Contents	175
See Also	176
ValidationExceptionField	177
Contents	177
See Also	177
ViewPort	178
Contents	178
See Also	178
Common Parameters	179
Common Errors	182

Welcome

Note

Amazon Bedrock AgentCore is in preview release and is subject to change.

Data plane operations for Amazon Bedrock AgentCore.

This document was last published on July 21, 2025.

Actions

The following actions are supported:

- [CreateEvent](#)
- [DeleteEvent](#)
- [DeleteMemoryRecord](#)
- [GetBrowserSession](#)
- [GetCodeInterpreterSession](#)
- [GetEvent](#)
- [GetMemoryRecord](#)
- [GetResourceApiKey](#)
- [GetResourceOauth2Token](#)
- [GetWorkloadAccessToken](#)
- [GetWorkloadAccessTokenForJWT](#)
- [GetWorkloadAccessTokenForUserId](#)
- [InvokeAgentRuntime](#)
- [InvokeCodeInterpreter](#)
- [ListActors](#)
- [ListBrowserSessions](#)
- [ListCodeInterpreterSessions](#)
- [ListEvents](#)
- [ListMemoryRecords](#)
- [ListSessions](#)
- [RetrieveMemoryRecords](#)
- [StartBrowserSession](#)
- [StartCodeInterpreterSession](#)
- [StopBrowserSession](#)
- [StopCodeInterpreterSession](#)
- [UpdateBrowserStream](#)

CreateEvent

Creates an event in a memory store. Events represent interactions or activities that occur within a session and are associated with specific actors.

To use this operation, you must have the CreateEvent permission.

This operation is subject to request rate limiting.

Request Syntax

```
POST /memories/memoryId/events HTTP/1.1
Content-type: application/json
```

```
{
  "actorId": "string",
  "branch": {
    "name": "string",
    "rootEventId": "string"
  },
  "clientToken": "string",
  "eventTimestamp": number,
  "payload": [
    { ... }
  ],
  "sessionId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store in which to create the event.

Length Constraints: Minimum length of 12.

Pattern: [a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

actorId

The identifier of the actor associated with this event. An actor represents an entity that participates in sessions and generates events.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

branch

The branch information for this event. Branches allow for organizing events into different conversation threads or paths.

Type: [Branch](#) object

Required: No

clientToken

A unique, case-sensitive identifier to ensure that the operation completes no more than one time. If this token matches a previous request, AgentCore ignores the request, but does not return an error.

Type: String

Required: No

eventTimestamp

The timestamp when the event occurred. If not specified, the current time is used.

Type: Timestamp

Required: Yes

payload

The content payload of the event. This can include conversational data or binary content.

Type: Array of [PayloadType](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

sessionId

The identifier of the session in which this event occurs. A session represents a sequence of related events.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "event": {
    "actorId": "string",
    "branch": {
      "name": "string",
      "rootEventId": "string"
    },
    "eventId": "string",
    "eventTimestamp": number,
    "memoryId": "string",
    "payload": [
      { ... }
    ],
    "sessionId": "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.

event

The event that was created.

Type: [Event](#) object

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

DeleteEvent

Deletes an event from a memory store. When you delete an event, it is permanently removed.

To use this operation, you must have the DeleteEvent permission.

Request Syntax

```
DELETE /memories/memoryId/actor/actorId/sessions/sessionId/events/eventId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor associated with the event to delete.

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

eventId

The identifier of the event to delete.

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: Yes

memoryId

The identifier of the memory store from which to delete the event.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session containing the event to delete.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "eventId": "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.

eventId

The identifier of the event that was deleted.

Type: String

Pattern: `[0-9]+#[a-zA-F0-9]+`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

DeleteMemoryRecord

Deletes a memory record from a memory store. When you delete a memory record, it is permanently removed.

To use this operation, you must have the DeleteMemoryRecord permission.

Request Syntax

```
DELETE /memories/memoryId/memoryRecords/memoryRecordId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store from which to delete the memory record.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

memoryRecordId

The identifier of the memory record to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"memoryRecordId": "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.

[memoryRecordId](#)

The identifier of the memory record that was deleted.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetBrowserSession

Retrieves detailed information about a specific browser session in Amazon Bedrock. This operation returns the session's configuration, current status, associated streams, and metadata.

To get a browser session, you must specify both the browser identifier and the session ID. The response includes information about the session's viewport configuration, timeout settings, and stream endpoints.

The following operations are related to `GetBrowserSession`:

- [StartBrowserSession](#)
- [ListBrowserSessions](#)
- [StopBrowserSession](#)

Request Syntax

```
GET /browsers/browserIdentifier/sessions/get?sessionId=sessionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the browser session to retrieve.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "createdAt": "string",
  "lastUpdatedAt": "string",
  "name": "string",
  "sessionId": "string",
  "sessionReplayArtifact": "string",
  "sessionTimeoutSeconds": number,
  "status": "string",
  "streams": {
    "automationStream": {
      "streamEndpoint": "string",
      "streamStatus": "string"
    },
    "liveViewStream": {
      "streamEndpoint": "string"
    }
  },
  "viewPort": {
    "height": number,
    "width": number
  }
}
```

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.

[browserIdentifier](#)

The identifier of the browser.

Type: String

[createdAt](#)

The time at which the browser session was created.

Type: Timestamp

lastUpdatedAt

The time at which the browser session was last updated.

Type: Timestamp

name

The name of the browser session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

sessionReplayArtifact

The artifact containing the session replay information.

Type: String

sessionTimeoutSeconds

The timeout period for the browser session in seconds.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

status

The current status of the browser session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

streams

The streams associated with this browser session. These include the automation stream and live view stream.

Type: [BrowserSessionStream](#) object

viewPort

The configuration that defines the dimensions of a browser viewport in a browser session. The viewport determines the visible area of web content and affects how web pages are rendered and displayed. Proper viewport configuration ensures that web content is displayed correctly for the agent's browsing tasks.

Type: [ViewPort](#) object

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetCodeInterpreterSession

Retrieves detailed information about a specific code interpreter session in Amazon Bedrock. This operation returns the session's configuration, current status, and metadata.

To get a code interpreter session, you must specify both the code interpreter identifier and the session ID. The response includes information about the session's timeout settings and current status.

The following operations are related to GetCodeInterpreterSession:

- [StartCodeInterpreterSession](#)
- [ListCodeInterpreterSessions](#)
- [StopCodeInterpreterSession](#)

Request Syntax

```
GET /code-interpreters/codeInterpreterIdentifier/sessions/get?sessionId=sessionId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the code interpreter session to retrieve.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "codeInterpreterIdentifier": "string",
  "createdAt": "string",
  "name": "string",
  "sessionId": "string",
  "sessionTimeoutSeconds": number,
  "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.

[codeInterpreterIdentifier](#)

The identifier of the code interpreter.

Type: String

[createdAt](#)

The time at which the code interpreter session was created.

Type: Timestamp

[name](#)

The name of the code interpreter session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

sessionId

The identifier of the code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

sessionTimeoutSeconds

The timeout period for the code interpreter session in seconds.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

status

The current status of the code interpreter session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetEvent

Retrieves information about a specific event in a memory store.

To use this operation, you must have the GetEvent permission.

Request Syntax

```
GET /memories/memoryId/actor/actorId/sessions/sessionId/events/eventId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor associated with the event.

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

eventId

The identifier of the event to retrieve.

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: Yes

memoryId

The identifier of the memory store containing the event.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session containing the event.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "event": {
    "actorId": "string",
    "branch": {
      "name": "string",
      "rootEventId": "string"
    },
    "eventId": "string",
    "eventTimestamp": number,
    "memoryId": "string",
    "payload": [
      { ... }
    ],
    "sessionId": "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.

event

The requested event information.

Type: [Event](#) object

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetMemoryRecord

Retrieves a specific memory record from a memory store.

To use this operation, you must have the GetMemoryRecord permission.

Request Syntax

```
GET /memories/memoryId/memoryRecord/memoryRecordId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store containing the memory record.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

memoryRecordId

The identifier of the memory record to retrieve.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "memoryRecord": {
```

```
"content": { ... },  
"createdAt": number,  
"memoryRecordId": "string",  
"memoryStrategyId": "string",  
"namespaces": [ "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.

[memoryRecord](#)

The requested memory record.

Type: [MemoryRecord](#) object

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetResourceApiKey

Retrieves an API Key associated with an API Key Credential Provider

Request Syntax

```
POST /identities/api-key HTTP/1.1
Content-type: application/json

{
  "resourceCredentialProviderName": "string",
  "workloadIdentityToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceCredentialProviderName](#)

The credential provider name of the resource you are retrieving the API Key of.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+

Required: Yes

[workloadIdentityToken](#)

The identity token of the workload you want to get the API Key of.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "apiKey": "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.

[apiKey](#)

The API Key associated with the resource requested.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetResourceOauth2Token

Returns the Oauth2Token of the provided resource

Request Syntax

POST /identities/oauth2/token HTTP/1.1

Content-type: application/json

```
{
  "customParameters": {
    "string" : "string"
  },
  "forceAuthentication": boolean,
  "oauth2Flow": "string",
  "resourceCredentialProviderName": "string",
  "resourceOauth2ReturnUrl": "string",
  "scopes": [ "string" ],
  "userId": "string",
  "workloadIdentityToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

customParameters

Gives the ability to send extra/custom parameters to the resource credentials provider during the authorization process. Standard OAuth2 flow parameters will not be overridden.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z0-9\-_\.\]+

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

forceAuthentication

If true, always initiate a new 3LO flow

Type: Boolean

Required: No

oauth2Flow

The type of flow to be performed

Type: String

Valid Values: USER_FEDERATION | M2M

Required: Yes

resourceCredentialProviderName

Reference to the credential provider

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+

Required: Yes

resourceOauth2ReturnUrl

Callback url to redirect after token retrieval completes. Should be one of the provided urls during WorkloadIdentity creation

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: \w+:(\/?\/?)[^\s]+

Required: No

scopes

The OAuth scopes requested

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

userId

The user ID of the user you're retrieving the token on behalf of.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

workloadIdentityToken

The identity token of the workload you want to retrieve the OAuth2 Token of.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "authorizationUrl": "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.

accessToken

OAuth2 token ready for use

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

authorizationUrl

The URL for the authorization process, provided if the Access token requires user Authorization.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetWorkloadAccessToken

Obtains an Workload access token for agentic workloads not acting on behalf of user.

Request Syntax

```
POST /identities/GetWorkloadAccessToken HTTP/1.1
Content-type: application/json

{
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

workloadName

Unique identifier for the registered agent

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "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.

workloadAccessToken

Opaque token representing both agent and user identity

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetWorkloadAccessTokenForJWT

Obtains an Workload access token for agentic workloads acting on behalf of user with JWT token

Request Syntax

```
POST /identities/GetWorkloadAccessTokenForJWT HTTP/1.1
Content-type: application/json
```

```
{
  "userToken": "string",
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

userToken

OAuth2 token issued by the user's identity provider

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Pattern: [A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+

Required: Yes

workloadName

Unique identifier for the registered agent

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "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.

[workloadAccessToken](#)

Opaque token representing both agent and user identity

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

GetWorkloadAccessTokenForUserId

Obtains an Workload access token for agentic workloads acting on behalf of user with User Id.

Request Syntax

```
POST /identities/GetWorkloadAccessTokenForUserId HTTP/1.1
Content-type: application/json
```

```
{
  "userId": "string",
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

userId

The user id of the user you are retrieving the access token for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

workloadName

The name of the worklaod you want to get the access token of.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "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.

workloadAccessToken

The workload access token of the named workload.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

InvokeAgentRuntime

Sends a request to an agent runtime in Amazon Bedrock and receives responses in real-time. The agent processes the request using the configured foundation model and any associated knowledge bases or action groups.

To invoke an agent runtime, you must specify the agent runtime ARN and provide a payload containing your request. You can optionally specify a qualifier to target a specific version or alias of the agent.

This operation supports streaming responses, allowing you to receive partial responses as they become available. We recommend using pagination to ensure that the operation returns quickly and successfully when processing large responses.

Request Syntax

```
POST /runtimes/agentRuntimeArn/invocations?qualifier=qualifier HTTP/1.1
Content-Type: contentType
Accept: accept
Mcp-Session-Id: mcpSessionId
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
Mcp-Protocol-Version: mcpProtocolVersion
X-Amzn-Bedrock-AgentCore-Runtime-User-Id: runtimeUserId
X-Amzn-Trace-Id: traceId
traceparent: traceParent
tracestate: traceState
baggage: baggage

payload
```

URI Request Parameters

The request uses the following URI parameters.

[accept](#)

The desired MIME type for the response from the agent runtime. This tells the agent runtime what format to use for the response data. Common values include application/json for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

agentRuntimeArn

The AWS Resource Name (ARN) of the agent runtime to invoke. The ARN uniquely identifies the agent runtime resource in Amazon Bedrock.

Required: Yes

baggage

Additional context information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 8192.

contentType

The MIME type of the input data in the payload. This tells the agent runtime how to interpret the payload data. Common values include application/json for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

mcpProtocolVersion

The version of the MCP protocol being used.

Length Constraints: Minimum length of 1. Maximum length of 1024.

mcpSessionId

The identifier of the MCP session.

Length Constraints: Minimum length of 1. Maximum length of 1024.

qualifier

The qualifier to use for the agent runtime. This can be a version number or an alias name that points to a specific version. If not specified, Amazon Bedrock uses the default version of the agent runtime.

runtimeSessionId

The identifier of the runtime session.

Length Constraints: Minimum length of 33. Maximum length of 256.

runtimeUserId

The identifier of the runtime user.

Length Constraints: Minimum length of 1. Maximum length of 1024.

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 128.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 128.

traceState

The trace state information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 512.

Request Body

The request accepts the following binary data.

payload

The input data to send to the agent runtime. The format of this data depends on the specific agent configuration and must match the specified content type. For most agents, this is a JSON object containing the user's request.

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: Yes

Response Syntax

```
HTTP/1.1 statusCode
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
Mcp-Session-Id: mcpSessionId
Mcp-Protocol-Version: mcpProtocolVersion
X-Amzn-Trace-Id: traceId
traceparent: traceParent
tracestate: traceState
```

```
baggage: baggage  
Content-Type: contentType  
  
response
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

statusCode

The HTTP status code of the response. A status code of 200 indicates a successful operation. Other status codes indicate various error conditions.

The response returns the following HTTP headers.

baggage

Additional context information for distributed tracing.

contentType

The MIME type of the response data. This indicates how to interpret the response data. Common values include application/json for JSON data.

mcpProtocolVersion

The version of the MCP protocol being used.

mcpSessionId

The identifier of the MCP session.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

runtimeSessionId

The identifier of the runtime session.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

[traceId](#)

The trace identifier for request tracking.

[traceParent](#)

The parent trace information for distributed tracing.

[traceState](#)

The trace state information for distributed tracing.

The response returns the following as the HTTP body.

[response](#)

The response data from the agent runtime. The format of this data depends on the specific agent configuration and the requested accept type. For most agents, this is a JSON object containing the agent's response to the user's request.

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RuntimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

HTTP Status Code: 424

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

InvokeCodeInterpreter

Executes code within an active code interpreter session in Amazon Bedrock. This operation processes the provided code, runs it in a secure environment, and returns the execution results including output, errors, and generated visualizations.

To execute code, you must specify the code interpreter identifier, session ID, and the code to run in the arguments parameter. The operation returns a stream containing the execution results, which can include text output, error messages, and data visualizations.

This operation is subject to request rate limiting based on your account's service quotas.

The following operations are related to InvokeCodeInterpreter:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
POST /code-interpreters/codeInterpreterIdentifier/tools/invoke HTTP/1.1
x-amzn-code-interpreter-session-id: sessionId
Content-type: application/json
```

```
{
  "arguments": {
    "clearContext": boolean,
    "code": "string",
    "command": "string",
    "content": [
      {
        "blob": blob,
        "path": "string",
        "text": "string"
      }
    ],
    "directoryPath": "string",
    "language": "string",
    "path": "string",
    "paths": [ "string" ],
    "taskId": "string"
  },
}
```

```
"name": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter associated with the session. This must match the identifier used when creating the session with `StartCodeInterpreterSession`.

Required: Yes

[sessionId](#)

The unique identifier of the code interpreter session to use. This must be an active session created with `StartCodeInterpreterSession`. If the session has expired or been stopped, the request will fail.

Pattern: `[0-9a-zA-Z]{1,40}`

Request Body

The request accepts the following data in JSON format.

[arguments](#)

The arguments for the code interpreter. This includes the code to execute and any additional parameters such as the programming language, whether to clear the execution context, and other execution options. The structure of this parameter depends on the specific code interpreter being used.

Type: [ToolArguments](#) object

Required: No

[name](#)

The name of the code interpreter to invoke.

Type: String

Valid Values: `executeCode` | `executeCommand` | `readFiles` | `listFiles` | `removeFiles` | `writeFiles` | `startCommandExecution` | `getTask` | `stopTask`

Required: Yes

Response Syntax

```
HTTP/1.1 200
x-amzn-code-interpreter-session-id: sessionId
Content-type: application/json

{
  "accessDeniedException": {
  },
  "conflictException": {
  },
  "internalServerErrorException": {
  },
  "resourceNotFoundException": {
  },
  "result": {
    "content": [
      {
        "data": blob,
        "description": "string",
        "mimeType": "string",
        "name": "string",
        "resource": {
          "blob": blob,
          "mimeType": "string",
          "text": "string",
          "type": "string",
          "uri": "string"
        },
        "size": number,
        "text": "string",
        "type": "string",
        "uri": "string"
      }
    ],
    "isError": boolean,
    "structuredContent": {
```

```
    "executionTime": number,
    "exitCode": number,
    "stderr": "string",
    "stdout": "string",
    "taskId": "string",
    "taskStatus": "string"
  }
},
"serviceQuotaExceededException": {
},
"throttlingException": {
},
"validationException": {
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

sessionId

The identifier of the code interpreter session.

Pattern: `[0-9a-zA-Z]{1,40}`

The following data is returned in JSON format by the service.

accessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

Type: Exception

HTTP Status Code: 403

conflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

Type: Exception
HTTP Status Code: 409

internalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception
HTTP Status Code: 500

resourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception
HTTP Status Code: 404

result

The output produced by executing code in a code interpreter session in Amazon Bedrock. This structure contains the results of code execution, including textual output, structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Type: [CodeInterpreterResult](#) object

serviceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception
HTTP Status Code: 402

throttlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 429

validationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListActors

Lists all actors in a memory store. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `ListActors` permission.

Request Syntax

```
POST /memories/memoryId/actors HTTP/1.1
Content-type: application/json

{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store for which to list actors.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 100. Default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actorSummaries": [
    {
      "actorId": "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.

[actorSummaries](#)

The list of actor summaries.

Type: Array of [ActorSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListBrowserSessions

Retrieves a list of browser sessions in Amazon Bedrock that match the specified criteria. This operation returns summary information about each session, including identifiers, status, and timestamps.

You can filter the results by browser identifier and session status. The operation supports pagination to handle large result sets efficiently.

We recommend using pagination to ensure that the operation returns quickly and successfully when retrieving large numbers of sessions.

The following operations are related to `ListBrowserSessions`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)

Request Syntax

```
POST /browsers/browserIdentifier/sessions/list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser to list sessions for. If specified, only sessions for this browser are returned. If not specified, sessions for all browsers are returned.

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 10. Valid values range from 1 to 100. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results. If not specified, Amazon Bedrock returns the first page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Required: No

status

The status of the browser sessions to list. Valid values include `ACTIVE`, `STOPPING`, and `STOPPED`. If not specified, sessions with any status are returned.

Type: String

Valid Values: `READY` | `TERMINATED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "items": [
    {
      "browserIdentifier": "string",
      "createdAt": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "sessionId": "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.

items

The list of browser sessions that match the specified criteria.

Type: Array of [BrowserSessionSummary](#) objects

nextToken

The token to use in a subsequent `ListBrowserSessions` request to get the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListCodeInterpreterSessions

Retrieves a list of code interpreter sessions in Amazon Bedrock that match the specified criteria. This operation returns summary information about each session, including identifiers, status, and timestamps.

You can filter the results by code interpreter identifier and session status. The operation supports pagination to handle large result sets efficiently.

We recommend using pagination to ensure that the operation returns quickly and successfully when retrieving large numbers of sessions.

The following operations are related to `ListCodeInterpreterSessions`:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
POST /code-interpreters/codeInterpreterIdentifier/sessions/list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter to list sessions for. If specified, only sessions for this code interpreter are returned. If not specified, sessions for all code interpreters are returned.

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 10. Valid values range from 1 to 100. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results. If not specified, Amazon Bedrock returns the first page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Required: No

status

The status of the code interpreter sessions to list. Valid values include `ACTIVE`, `STOPPING`, and `STOPPED`. If not specified, sessions with any status are returned.

Type: String

Valid Values: `READY` | `TERMINATED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "items": [
    {
      "codeInterpreterIdentifier": "string",
      "createdAt": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "sessionId": "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.

items

The list of code interpreter sessions that match the specified criteria.

Type: Array of [CodeInterpreterSessionSummary](#) objects

nextToken

The token to use in a subsequent `ListCodeInterpreterSessions` request to get the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListEvents

Lists events in a memory store based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `ListEvents` permission.

Request Syntax

```
POST /memories/memoryId/actor/actorId/sessions/sessionId HTTP/1.1
Content-type: application/json

{
  "filter": {
    "branch": {
      "includeParentBranches": boolean,
      "name": "string"
    }
  },
  "includePayloads": boolean,
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor for which to list events. If specified, only events from this actor are returned.

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

memoryId

The identifier of the memory store for which to list events.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session for which to list events. If specified, only events from this session are returned.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filter

Filter criteria to apply when listing events.

Type: [FilterInput](#) object

Required: No

includePayloads

Specifies whether to include event payloads in the response. Set to true to include payloads, or false to exclude them.

Type: Boolean

Required: No

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 100. Default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "events": [
    {
      "actorId": "string",
      "branch": {
        "name": "string",
        "rootEventId": "string"
      },
      "eventId": "string",
      "eventTimestamp": number,
      "memoryId": "string",
      "payload": [
        { ... }
      ],
      "sessionId": "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.

events

The list of events that match the specified criteria.

Type: Array of [Event](#) objects

nextToken

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListMemoryRecords

Lists memory records in a memory store based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `ListMemoryRecords` permission.

Request Syntax

```
POST /memories/memoryId/memoryRecords HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "maxResults": number,
  "memoryStrategyId": "string",
  "namespace": "string",
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store for which to list memory records.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 100. Default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

memoryStrategyId

The memory strategy identifier to filter memory records by. If specified, only memory records with this strategy ID are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]*

Required: No

namespace

The namespace to filter memory records by. If specified, only memory records in this namespace are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9/*][a-zA-Z0-9-_/]*

Required: Yes

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "memoryRecordSummaries": [
    {
      "content": { ... },
      "createdAt": number,
      "memoryRecordId": "string",
      "memoryStrategyId": "string",
      "namespaces": [ "string" ],
      "score": number
    }
  ],
  "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.

[memoryRecordSummaries](#)

The list of memory record summaries that match the specified criteria.

Type: Array of [MemoryRecordSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

ListSessions

Lists sessions in a memory store based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `ListSessions` permission.

Request Syntax

```
POST /memories/memoryId/actor/actorId/sessions HTTP/1.1
Content-type: application/json

{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor for which to list sessions. If specified, only sessions involving this actor are returned.

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

memoryId

The identifier of the memory store for which to list sessions.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_]{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[maxResults](#)

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 100. Default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "sessionSummaries": [
    {
      "actorId": "string",
      "createdAt": number,
      "sessionId": "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

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

sessionSummaries

The list of session summaries that match the specified criteria.

Type: Array of [SessionSummary](#) objects

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

RetrieveMemoryRecords

Searches for and retrieves memory records from a memory store based on specified search criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `RetrieveMemoryRecords` permission.

Request Syntax

```
POST /memories/memoryId/retrieve HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "maxResults": number,
  "namespace": "string",
  "nextToken": "string",
  "searchCriteria": {
    "memoryStrategyId": "string",
    "searchQuery": "string",
    "topK": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the memory store from which to retrieve memory records.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 100. Default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

namespace

The namespace to filter memory records by. If specified, only memory records in this namespace are searched.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*`

Required: Yes

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

searchCriteria

The search criteria to use for finding relevant memory records. This includes the search query, memory strategy ID, and other search parameters.

Type: [SearchCriteria](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "memoryRecordSummaries": [
    {
      "content": { ... },
      "createdAt": number,
      "memoryRecordId": "string",
      "memoryStrategyId": "string",
      "namespaces": [ "string" ],
      "score": number
    }
  ],
  "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.

[memoryRecordSummaries](#)

The list of memory record summaries that match the search criteria, ordered by relevance.

Type: Array of [MemoryRecordSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

StartBrowserSession

Creates and initializes a browser session in Amazon Bedrock. The session enables agents to navigate and interact with web content, extract information from websites, and perform web-based tasks as part of their response generation.

To create a session, you must specify a browser identifier and a name. You can also configure the viewport dimensions to control the visible area of web content. The session remains active until it times out or you explicitly stop it using the `StopBrowserSession` operation.

The following operations are related to `StartBrowserSession`:

- [GetBrowserSession](#)
- [UpdateBrowserStream](#)
- [StopBrowserSession](#)

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/start HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "name": "string",
  "sessionTimeoutSeconds": number,
  "viewPort": {
    "height": number,
    "width": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser to use for this session. This identifier specifies which browser environment to initialize for the session.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error. This parameter helps prevent the creation of duplicate sessions if there are temporary network issues.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

name

The name of the browser session. This name helps you identify and manage the session. The name does not need to be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

sessionTimeoutSeconds

The time in seconds after which the session automatically terminates if there is no activity. The default value is 3600 seconds (1 hour). The minimum allowed value is 60 seconds, and the maximum allowed value is 28800 seconds (8 hours).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

Required: No

[viewport](#)

The dimensions of the browser viewport for this session. This determines the visible area of the web content and affects how web pages are rendered. If not specified, Amazon Bedrock uses a default viewport size.

Type: [Viewport](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "createdAt": "string",
  "sessionId": "string",
  "streams": {
    "automationStream": {
      "streamEndpoint": "string",
      "streamStatus": "string"
    },
    "liveViewStream": {
      "streamEndpoint": "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.

[browserIdentifier](#)

The identifier of the browser.

Type: String

createdAt

The timestamp when the browser session was created.

Type: Timestamp

sessionId

The unique identifier of the created browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

streams

The streams associated with this browser session. These include the automation stream and live view stream.

Type: [BrowserSessionStream](#) object

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)

- [AWS SDK for .NET](#)
- [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](#)

StartCodeInterpreterSession

Creates and initializes a code interpreter session in Amazon Bedrock. The session enables agents to execute code as part of their response generation, supporting programming languages such as Python for data analysis, visualization, and computation tasks.

To create a session, you must specify a code interpreter identifier and a name. The session remains active until it times out or you explicitly stop it using the `StopCodeInterpreterSession` operation.

The following operations are related to `StartCodeInterpreterSession`:

- [InvokeCodeInterpreter](#)
- [GetCodeInterpreterSession](#)
- [StopCodeInterpreterSession](#)

Request Syntax

```
PUT /code-interpreters/codeInterpreterIdentifier/sessions/start HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "name": "string",
  "sessionTimeoutSeconds": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter to use for this session. This identifier specifies which code interpreter environment to initialize for the session.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error. This parameter helps prevent the creation of duplicate sessions if there are temporary network issues.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

name

The name of the code interpreter session. This name helps you identify and manage the session. The name does not need to be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

sessionTimeoutSeconds

The time in seconds after which the session automatically terminates if there is no activity. The default value is 3600 seconds (1 hour). The minimum allowed value is 60 seconds, and the maximum allowed value is 28800 seconds (8 hours).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "codeInterpreterIdentifier": "string",
  "createdAt": "string",
  "sessionId": "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.

codeInterpreterIdentifier

The identifier of the code interpreter.

Type: String

createdAt

The time at which the code interpreter session was created.

Type: Timestamp

sessionId

The unique identifier of the created code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

StopBrowserSession

Terminates an active browser session in Amazon Bedrock. This operation stops the session, releases associated resources, and makes the session unavailable for further use.

To stop a browser session, you must specify both the browser identifier and the session ID. Once stopped, a session cannot be restarted; you must create a new session using `StartBrowserSession`.

The following operations are related to `StopBrowserSession`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/stop?sessionId=sessionId HTTP/1.1
Content-type: application/json

{
  "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the browser session to stop.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "lastUpdatedAt": "string",
  "sessionId": "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.

browserIdentifier

The identifier of the browser.

Type: String

lastUpdatedAt

The time at which the browser session was last updated.

Type: Timestamp

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

StopCodeInterpreterSession

Terminates an active code interpreter session in Amazon Bedrock. This operation stops the session, releases associated resources, and makes the session unavailable for further use.

To stop a code interpreter session, you must specify both the code interpreter identifier and the session ID. Once stopped, a session cannot be restarted; you must create a new session using `StartCodeInterpreterSession`.

The following operations are related to `StopCodeInterpreterSession`:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
PUT /code-interpreters/codeInterpreterIdentifier/sessions/stop?sessionId=sessionId
HTTP/1.1
Content-type: application/json

{
  "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the code interpreter session to stop.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "codeInterpreterIdentifier": "string",
  "lastUpdatedAt": "string",
  "sessionId": "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.

codeInterpreterIdentifier

The identifier of the code interpreter.

Type: String

lastUpdatedAt

The timestamp when the code interpreter session was last updated.

Type: Timestamp

sessionId

The identifier of the code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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](#)

UpdateBrowserStream

Updates a browser stream. To use this operation, you must have permissions to perform the `bedrock:UpdateBrowserStream` action.

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/streams/update?sessionId=sessionId HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "streamUpdate": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

browserIdentifier

The identifier of the browser.

Required: Yes

sessionId

The identifier of the browser session.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the operation completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

[streamUpdate](#)

The update to apply to the browser stream.

Type: [StreamUpdate](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "sessionId": "string",
  "streams": {
    "automationStream": {
      "streamEndpoint": "string",
      "streamStatus": "string"
    },
    "liveViewStream": {
      "streamEndpoint": "string"
    }
  },
  "updatedAt": "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.

browserIdentifier

The identifier of the browser.

Type: String

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

streams

The collection of streams associated with a browser session in Amazon Bedrock. These streams provide different ways to interact with and observe the browser session, including programmatic control and visual representation of the browser content.

Type: [BrowserSessionStream](#) object

updatedAt

The time at which the browser stream was updated.

Type: Timestamp

Errors

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

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

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](#)
- [AWS SDK for .NET](#)
- [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 Amazon Bedrock AgentCore Data Plane Fronting Layer API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [ActorSummary](#)
- [AutomationStream](#)
- [AutomationStreamUpdate](#)
- [Branch](#)
- [BranchFilter](#)
- [BrowserSessionStream](#)
- [BrowserSessionSummary](#)
- [CodeInterpreterResult](#)
- [CodeInterpreterSessionSummary](#)
- [CodeInterpreterStreamOutput](#)
- [Content](#)
- [ContentBlock](#)
- [Conversational](#)
- [Event](#)
- [FilterInput](#)
- [InputContentBlock](#)
- [LiveViewStream](#)
- [MemoryContent](#)
- [MemoryRecord](#)
- [MemoryRecordSummary](#)

- [PayloadType](#)
- [ResourceContent](#)
- [SearchCriteria](#)
- [SessionSummary](#)
- [StreamUpdate](#)
- [ToolArguments](#)
- [ToolResultStructuredContent](#)
- [ValidationExceptionField](#)
- [ViewPort](#)

ActorSummary

Contains summary information about an actor in a memory store.

Contents

actorId

The unique identifier of the actor.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

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](#)

AutomationStream

The configuration for a stream that enables programmatic control of a browser session in Amazon Bedrock. This stream provides a bidirectional communication channel for sending commands to the browser and receiving responses, allowing agents to automate web interactions such as navigation, form filling, and element clicking.

Contents

streamEndpoint

The endpoint URL for the automation stream. This URL is used to establish a WebSocket connection to the stream for sending commands and receiving responses.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

Required: Yes

streamStatus

The current status of the automation stream. This indicates whether the stream is available for use. Possible values include ACTIVE, CONNECTING, and DISCONNECTED.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

AutomationStreamUpdate

Contains information about an update to an automation stream.

Contents

streamStatus

The status of the automation stream.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

Branch

Contains information about a branch in a memory store. Branches allow for organizing events into different conversation threads or paths.

Contents

name

The name of the branch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: Yes

rootEventId

The identifier of the root event for this branch.

Type: String

Pattern: `[0-9]+#[a-zA-F0-9]+`

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](#)

BranchFilter

Contains filter criteria for branches when listing events.

Contents

name

The name of the branch to filter by.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: Yes

includeParentBranches

Specifies whether to include parent branches in the results. Set to true to include parent branches, or false to exclude them.

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](#)

BrowserSessionStream

The collection of streams associated with a browser session in Amazon Bedrock. These streams provide different ways to interact with and observe the browser session, including programmatic control and visual representation of the browser content.

Contents

automationStream

The stream that enables programmatic control of the browser. This stream allows agents to perform actions such as navigating to URLs, clicking elements, and filling forms.

Type: [AutomationStream](#) object

Required: Yes

liveViewStream

The stream that provides a visual representation of the browser content. This stream allows agents to observe the current state of the browser, including rendered web pages and visual elements.

Type: [LiveViewStream](#) object

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](#)

BrowserSessionSummary

A condensed representation of a browser session in Amazon Bedrock. This structure contains key information about a browser session, including identifiers, status, and timestamps, without the full details of the session configuration and streams.

Contents

browserIdentifier

The unique identifier of the browser associated with the session. This identifier specifies which browser environment is used for the session.

Type: String

Required: Yes

createdAt

The timestamp when the browser session was created. This value is in ISO 8601 format.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the browser session. This identifier is used in operations that interact with the session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

status

The current status of the browser session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Required: Yes

lastUpdatedAt

The timestamp when the browser session was last updated. This value is in ISO 8601 format.

Type: Timestamp

Required: No

name

The name of the browser session. This name helps identify and manage the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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](#)

CodeInterpreterResult

The output produced by executing code in a code interpreter session in Amazon Bedrock. This structure contains the results of code execution, including textual output, structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Contents

content

The textual content of the execution result. This includes standard output from the code execution, such as print statements, console output, and text representations of results.

Type: Array of [ContentBlock](#) objects

Required: Yes

isError

Indicates whether the result represents an error. If true, the content contains error messages or exception information. If false, the content contains successful execution results.

Type: Boolean

Required: No

structuredContent

The structured content of the execution result. This includes additional metadata about the execution, such as execution time, memory usage, and structured representations of output data. The format depends on the specific code interpreter and execution context.

Type: [ToolResultStructuredContent](#) object

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](#)

CodeInterpreterSessionSummary

A condensed representation of a code interpreter session in Amazon Bedrock. This structure contains key information about a code interpreter session, including identifiers, status, and timestamps, without the full details of the session configuration.

Contents

codeInterpreterIdentifier

The unique identifier of the code interpreter associated with the session. This identifier specifies which code interpreter environment is used for the session.

Type: String

Required: Yes

createdAt

The timestamp when the code interpreter session was created. This value is in ISO 8601 format.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the code interpreter session. This identifier is used in operations that interact with the session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

status

The current status of the code interpreter session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Required: Yes

lastUpdatedAt

The timestamp when the code interpreter session was last updated. This value is in ISO 8601 format.

Type: Timestamp

Required: No

name

The name of the code interpreter session. This name helps identify and manage the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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](#)

CodeInterpreterStreamOutput

Contains output from a code interpreter stream.

Contents

accessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

Type: Exception

HTTP Status Code: 403

Required: No

conflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

Type: Exception

HTTP Status Code: 409

Required: No

internalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 500

Required: No

resourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception
HTTP Status Code: 404

Required: No

result

The output produced by executing code in a code interpreter session in Amazon Bedrock. This structure contains the results of code execution, including textual output, structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Type: [CodeInterpreterResult](#) object

Required: No

serviceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception
HTTP Status Code: 402

Required: No

throttlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception
HTTP Status Code: 429

Required: No

validationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

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](#)

Content

Contains the content of a memory item.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

text

The text content of the memory item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 9000.

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](#)

ContentBlock

A block of content in a response.

Contents

type

The type of content in the block.

Type: String

Valid Values: `text` | `image` | `resource` | `resource_link`

Required: Yes

data

The binary data content of the block.

Type: Base64-encoded binary data object

Required: No

description

The description of the content block.

Type: String

Required: No

contentType

The MIME type of the content.

Type: String

Required: No

name

The name of the content block.

Type: String

Required: No

resource

The resource associated with the content block.

Type: [ResourceContent](#) object

Required: No

size

The size of the content in bytes.

Type: Long

Required: No

text

The text content of the block.

Type: String

Required: No

uri

The URI of the content.

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](#)

Conversational

Contains conversational content for an event payload.

Contents

content

The content of the conversation message.

Type: [Content](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

role

The role of the participant in the conversation (for example, "user" or "assistant").

Type: String

Valid Values: ASSISTANT | USER | TOOL | OTHER

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](#)

Event

Contains information about an event in a memory store.

Contents

actorId

The identifier of the actor associated with the event.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

eventId

The unique identifier of the event.

Type: String

Pattern: `[0-9]+#[a-zA-Z0-9]+`

Required: Yes

eventTimestamp

The timestamp when the event occurred.

Type: Timestamp

Required: Yes

memoryId

The identifier of the memory store containing the event.

Type: String

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

payload

The content payload of the event.

Type: Array of [PayloadType](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

sessionId

The identifier of the session containing the event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]*`

Required: Yes

branch

The branch information for the event.

Type: [Branch](#) object

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](#)

FilterInput

Contains filter criteria for listing events.

Contents

branch

The branch filter criteria to apply when listing events.

Type: [BranchFilter](#) object

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](#)

InputContentBlock

A block of input content.

Contents

path

The path to the input content.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: Yes

blob

The binary input content.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

text

The text input content.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

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](#)

LiveViewStream

The configuration for a stream that provides a visual representation of a browser session in Amazon Bedrock. This stream enables agents to observe the current state of the browser, including rendered web pages, visual elements, and the results of interactions.

Contents

streamEndpoint

The endpoint URL for the live view stream. This URL is used to establish a connection to receive visual updates from the browser session.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

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](#)

MemoryContent

Contains the content of a memory record.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

text

The text content of the memory record.

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](#)

MemoryRecord

Contains information about a memory record in a memory store.

Contents

content

The content of the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

createdAt

The timestamp when the memory record was created.

Type: Timestamp

Required: Yes

memoryRecordId

The unique identifier of the memory record.

Type: String

Length Constraints: Fixed length of 40.

Pattern: mem-[a-zA-Z0-9-]*

Required: Yes

memoryStrategyId

The identifier of the memory strategy associated with this record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_]*

Required: Yes

namespaces

The namespaces associated with this memory record. Namespaces help organize and categorize memory records.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*`

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](#)

MemoryRecordSummary

Contains summary information about a memory record.

Contents

content

The content of the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

createdAt

The timestamp when the memory record was created.

Type: Timestamp

Required: Yes

memoryRecordId

The unique identifier of the memory record.

Type: String

Length Constraints: Fixed length of 40.

Pattern: mem-[a-zA-Z0-9-]*

Required: Yes

memoryStrategyId

The identifier of the memory strategy associated with this record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_]*

Required: Yes

namespaces

The namespaces associated with this memory record.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*`

Required: Yes

score

The relevance score of the memory record when returned as part of a search result. Higher values indicate greater relevance to the search query.

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](#)

PayloadType

Contains the payload content for an event.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

blob

The binary content of the payload.

Type: JSON value

Required: No

conversational

The conversational content of the payload.

Type: [Conversational](#) object

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](#)

ResourceContent

Contains information about resource content.

Contents

type

The type of resource content.

Type: String

Valid Values: text | blob

Required: Yes

blob

The binary resource content.

Type: Base64-encoded binary data object

Required: No

contentType

The MIME type of the resource content.

Type: String

Required: No

text

The text resource content.

Type: String

Required: No

uri

The URI of the resource content.

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](#)

SearchCriteria

Contains search criteria for retrieving memory records.

Contents

searchQuery

The search query to use for finding relevant memory records.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10000.

Required: Yes

memoryStrategyId

The memory strategy identifier to filter memory records by.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: No

topK

The maximum number of top-scoring memory records to return. This value is used for semantic search ranking.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

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](#)

SessionSummary

Contains summary information about a session in a memory store.

Contents

actorId

The identifier of the actor associated with the session.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*`

Required: Yes

createdAt

The timestamp when the session was created.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

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](#)

StreamUpdate

Contains information about an update to a stream.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

automationStreamUpdate

The update to an automation stream.

Type: [AutomationStreamUpdate](#) object

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](#)

ToolArguments

The collection of arguments that specify the operation to perform and its parameters when invoking a tool in Amazon Bedrock. Different tools require different arguments, and this structure provides a flexible way to pass the appropriate arguments to each tool type.

Contents

clearContext

Whether to clear the context for the tool.

Type: Boolean

Required: No

code

The code to execute in a code interpreter session. This is the source code in the specified programming language that will be executed by the code interpreter.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

command

The command to execute with the tool.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

content

The content for the tool operation.

Type: Array of [InputContentBlock](#) objects

Required: No

directoryPath

The directory path for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

language

The programming language of the code to execute. This tells the code interpreter which language runtime to use for execution. Common values include 'python', 'javascript', and 'r'.

Type: String

Valid Values: python | javascript | typescript

Required: No

path

The path for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

paths

The paths for the tool operation.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

taskId

The identifier of the task for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

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](#)

ToolResultStructuredContent

Contains structured content from a tool result.

Contents

executionTime

The execution time of the tool operation in milliseconds.

Type: Double

Required: No

exitCode

The exit code from the tool execution.

Type: Integer

Required: No

stderr

The standard error output from the tool execution.

Type: String

Required: No

stdout

The standard output from the tool execution.

Type: String

Required: No

taskId

The identifier of the task that produced the result.

Type: String

Required: No

taskStatus

The status of the task that produced the result.

Type: String

Valid Values: submitted | working | completed | canceled | failed

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](#)

ValidationExceptionField

Stores information about a field passed inside a request that resulted in an exception.

Contents

message

A message describing why this field failed validation.

Type: String

Required: Yes

name

The name of the field.

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](#)

ViewPort

The configuration that defines the dimensions of a browser viewport in a browser session. The viewport determines the visible area of web content and affects how web pages are rendered and displayed. Proper viewport configuration ensures that web content is displayed correctly for the agent's browsing tasks.

Contents

height

The height of the viewport in pixels. This value determines the vertical dimension of the visible area. Valid values range from 600 to 1080 pixels.

Type: Integer

Valid Range: Minimum value of 240. Maximum value of 2160.

Required: Yes

width

The width of the viewport in pixels. This value determines the horizontal dimension of the visible area. Valid values range from 800 to 1920 pixels.

Type: Integer

Valid Range: Minimum value of 320. Maximum value of 3840.

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400