



Developer Guide

# Amazon DCV Session Manager



# Amazon DCV Session Manager: Developer Guide

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# Table of Contents

<b>What is Session Manager?</b> .....	<b>1</b>
How Session Manager works .....	1
Features .....	3
<b>Getting started with Session Manager API</b> .....	<b>5</b>
Step 1: Generate your API client .....	5
Step 2: Register your client API .....	6
Step 3: Get an access token and make an API request .....	7
<b>Session Manager API reference</b> .....	<b>10</b>
CloseServers .....	10
Request parameters .....	7
Response parameters .....	11
Example .....	12
CreateSessions .....	13
Request parameters .....	7
Response parameters .....	11
Example .....	12
DescribeServers .....	21
Request parameters .....	7
Response parameters .....	11
Example .....	12
DescribeSessions .....	32
Request parameters .....	7
Response parameters .....	11
Example .....	12
DeleteSessions .....	38
Request parameters .....	7
Response parameters .....	11
Example .....	12
GetSessionConnectionData .....	41
Request parameters .....	7
Response parameters .....	11
Additional info .....	44
Example .....	12
GetSessionScreenshots .....	47

Request parameters .....	7
Response parameters .....	11
Example .....	12
OpenServers .....	52
Request parameters .....	7
Response parameters .....	11
Example .....	12
UpdateSessionPermissions .....	54
Request parameters .....	7
Response parameters .....	11
Example .....	12
<b>Release Notes and Document History .....</b>	<b>57</b>
Release Notes .....	57
2025.0-544— February 2, 2026 .....	58
2025.0-544— December 23, 2025 .....	58
2025.0-539— November 12, 2025 .....	58
2025.0-539— October 22, 2025 .....	59
2024.0-531— June 17, 2025 .....	59
2024.0-504— March 31, 2025 .....	59
2024.0-493— January 15, 2025 .....	60
2024.0-457— October 1, 2024 .....	60
2023.1-17652— August 1, 2024 .....	60
2023.1-16388— June 26, 2024 .....	61
2023.1— November 9, 2023 .....	61
2023.0-15065— May 4, 2023 .....	61
2023.0-14852— March 28, 2023 .....	62
2022.2-13907— November 11, 2022 .....	62
2022.1-13067— June 29, 2022 .....	62
2022.0-11952— February 23, 2022 .....	62
2021.3-11591— December 20, 2021 .....	63
2021.2-11445— November 18, 2021 .....	63
2021.2-11190— October 11, 2021 .....	63
2021.2-11042— September 01, 2021 .....	64
2021.1-10557— May 31, 2021 .....	64
2021.0-10242— April 12, 2021 .....	64
2020.2-9662— December 04, 2020 .....	65

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.....	66
<b>Document history .....</b>	<b>66</b>

# What is Amazon DCV Session Manager?

## Note

Amazon DCV was previously known as NICE DCV.

Amazon DCV Session Manager is set of installable software packages (an Agent and a Broker) and an application programming interface (API) that makes it easy for developers and independent software vendors (ISVs) to build front-end applications that programmatically create and manage the lifecycle of Amazon DCV sessions across a fleet of Amazon DCV servers.

This guide explains how to use the Session Manager APIs to manage the lifecycle of Amazon DCV sessions. For more information about how to install and configure the Session Manager Broker and Agents, see the *Amazon DCV Session Manager Administrator Guide*.

## Prerequisites

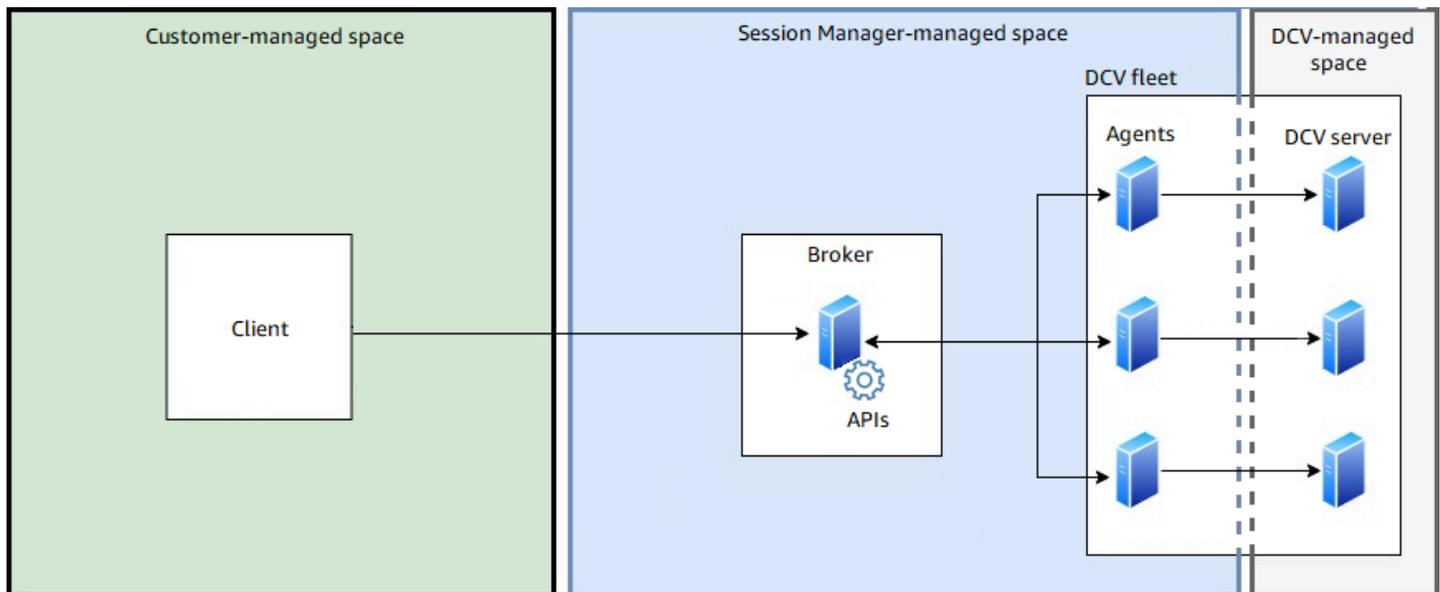
Before you start working with the Session Manager APIs, ensure that you're familiar with Amazon DCV and Amazon DCV sessions. For more information, see the [Amazon DCV Administrator Guide](#).

## Topics

- [How Session Manager works](#)
- [Features](#)

## How Session Manager works

The following diagram shows the high-level components of Session Manager.



## Broker

The Broker is a web server that hosts and exposes the Session Manager APIs. It receives and processes *API* requests to manage Amazon DCV sessions from the *client*, and then passes the instructions to the relevant *Agents*. The Broker must be installed on a host that is separate from your Amazon DCV servers, but it must be accessible to the client, and it must be able to access the Agents.

## Agent

The Agent is installed on each Amazon DCV server in the fleet. The Agents receive instructions from the *Broker* and run them on their respective Amazon DCV servers. The Agents also monitor the state of the Amazon DCV servers, and send periodic status updates back to the Broker.

## APIs

Session Manager exposes a set of REST application programming interfaces (APIs) that can be used to manage Amazon DCV sessions on a fleet of Amazon DCV servers. The APIs are hosted on and exposed by the *Broker*. Developers can build custom session management *clients* that call the APIs.

## Client

The client is the front-end application or portal that you develop to call the Session Manager *APIs* that are exposed by the *Broker*. End users use the client to manage the sessions hosted on the Amazon DCV servers in the fleet.

## Access token

In order to make an API request, you must provide an access token. Tokens can be requested from the Broker, or an external authorization server, by registered client APIs. To request and access token, the client API must provide valid credentials.

## Client API

The client API is generated from the Session Manager API definition YAML file, using Swagger Codegen. The client API is used to make API requests.

## Amazon DCV session

An Amazon DCV session is a span of time when the Amazon DCV server is able to accept connections from a client. Before your clients can connect to an Amazon DCV session, you must create an Amazon DCV session on the Amazon DCV server. Amazon DCV supports both console and virtual sessions, and each session has a specified owner and set of permissions. You use the Session Manager APIs to manage the lifecycle of Amazon DCV sessions. Amazon DCV sessions can be in one of the following states:

- **CREATING**—the Broker is in the process of creating the session.
- **READY**—the session is ready to accept client connections.
- **DELETING**—the session is being deleted.
- **DELETED**—the session has been deleted.
- **UNKNOWN**—unable to determine the session's state. The Broker and the Agent might be unable to communicate.

## Features

DCV Session Manager offers the following features:

- **Provides Amazon DCV session information**—get information about the sessions running on multiple Amazon DCV servers.
- **Manage the lifecycle for multiple Amazon DCV sessions**—create or delete multiple sessions for multiple users across multiple Amazon DCV servers with one API request.
- **Supports tags**—use custom tags to target a group of Amazon DCV servers when creating sessions.

- **Manages permissions for multiple Amazon DCV sessions**—modify user permissions for multiple sessions with one API request.
- **Provides connection information**—retrieve client connection information for Amazon DCV sessions.
- **Supports for cloud and on premises**—use Session Manager on AWS, on premises, or with alternative cloud-based servers.

# Getting started with Session Manager API

The Amazon DCV Session Manager API provides an automated interface for managing remote desktop sessions. Through this API, developers can create, list, start, stop, and otherwise control DCV sessions programmatically. This allows for the integration of Amazon DCV functionality into custom applications and workflows. By leveraging this API, organizations can streamline the management of remote visualization workloads, automating many common tasks.

Before you can start making calls to the Amazon DCV API, you'll need to obtain an access token that authenticates your application and authorizes it to access the necessary resources. The Amazon DCV API uses OAuth 2.0 for authentication, so you'll need to register your application and retrieve the necessary credentials. Once you have your access token, you can start sending requests to the Amazon DCV API endpoints to begin processing data.

## Topics

- [Step 1: Generate your API client](#)
- [Step 2: Register your client API](#)
- [Step 3: Get an access token and make an API request](#)

## Step 1: Generate your API client

The Session Manager APIs are defined in a single YAML file. The APIs are based on the OpenAPI3.0 specification, which defines a standard, language-agnostic interface to RESTful APIs. For more information, see [OpenAPI Specification](#).

Using the YAML file, you can generate API client in one of the supported languages. To do this, you must use Swagger Codegen 3.0 or later. For more information about the supported languages, see the [swagger-codegen repo](#).

### To generate the API client

1. Download the Session Manager API YAML file from the Session Manager Broker. The YAML file is available at the following URL.

```
https://broker_host_ip:port/dcv-session-manager-api.yaml
```

2. Install Swagger Codegen.

- macOS

```
$ brew install swagger-codegen
```

- Other platforms

```
$ git clone https://github.com/swagger-api/swagger-codegen --branch 3.0.0
```

```
$ cd swagger-codegen
```

### 3. Generate the API client.

- macOS

```
$ swagger-codegen generate -i /path_to/yaml_file -l language -o $output_folder
```

- Other platforms

```
$ mvn clean package
```

```
$ java -jar modules/swagger-codegen-cli/target/swagger-codegen-cli.jar generate -  
i /path_to/yaml_file -l language -o output_folder
```

## Step 2: Register your client API

API requests use an access token to verify your credentials. These credentials are based on a client ID and client password that is generated when your client is registered with the Broker.

To access this token, you need to register with the Broker. Use [register-api-client](#) to register client API.

If you don't have a client ID and client password for your client, you must request them from your Broker administrator.

## Step 3: Get an access token and make an API request

This example will walk through the steps to get your access token set up, then show you how to make a basic API request. This will give you the foundational knowledge to start building more advanced applications powered by the Amazon DCV API.

In this example, we'll show you how to do this by using the DescribeSessions API.

### Example

First we import the models needed for the application.

Then we declare variables for the client ID (`__CLIENT_ID`), client password (`__CLIENT_SECRET`), and the Broker URL, including the port number (`__PROTOCOL_HOST_PORT`).

Next, we create a function called `build_client_credentials` that generates the client credentials. To generate the client credentials, you must first concatenate the client ID and client password and separate the values with a colon (`client_id:client_password`), and then Base64 encode the entire string.

```
import swagger_client
import base64
import requests
import json
from swagger_client.models.describe_sessions_request_data import DescribeSessionsRequestData
from swagger_client.models.key_value_pair import KeyValuePair
from swagger_client.models.delete_session_request_data import DeleteSessionRequestData
from swagger_client.models.update_session_permissions_request_data import UpdateSessionPermissionsRequestData
from swagger_client.models.create_session_request_data import CreateSessionRequestData

__CLIENT_ID = '794b2dbb-bd82-4707-a2f7-f3d9899cb386'
__CLIENT_SECRET = 'MzcxNzJhN2UtYjEzNS00MjN2YtMjF1ZmRlZWJmMDU1'
__PROTOCOL_HOST_PORT = 'https://<broker-hostname>:8443'

def build_client_credentials():
    client_credentials = '{client_id}:{client_secret}'.format(client_id=__CLIENT_ID,
client_secret=__CLIENT_SECRET)
    return base64.b64encode(client_credentials.encode('utf-8')).decode('utf-8')
```

Now that we have our client credentials, we can use it to request an access token from the Broker. To do this, we create a function called `get_access_token`. You must call a POST on `https://Broker_IP:8443/oauth2/token?grant_type=client_credentials`, and provide an authorization header, which includes the Basic-encoded client credentials, and a content type of `application/x-www-form-urlencoded`.

```
def get_access_token():
    client_credentials = build_client_credentials()
    headers = {
        'Authorization': 'Basic {}'.format(client_credentials),
        'Content-Type': 'application/x-www-form-urlencoded'
    }
    endpoint = __PROTOCOL_HOST_PORT + '/oauth2/token?grant_type=client_credentials'
    print('Calling', endpoint, 'using headers', headers)
    res = requests.post(endpoint, headers=headers, verify=True)
    if res.status_code != 200:
        print('Cannot get access token:', res.text)
        return None
    access_token = json.loads(res.text)['access_token']
    print('Access token is', access_token)
    return access_token
```

Now, we create the functions needed to instantiate a client API. To instantiate a client API, you must specify the client configuration and the headers to be used for requests. The `get_client_configuration` function creates a configuration object that includes the Broker's IP address and port and the path to Broker's self-signed certificate, which you should have received from the Broker administrator. The `set_request_headers` function creates a request header object that includes the client credentials and the access token.

```
def get_client_configuration():
    configuration = swagger_client.Configuration()
    configuration.host = __PROTOCOL_HOST_PORT
    configuration.verify_ssl = True
    # configuration.ssl_ca_cert = cert_file.pem
    return configuration

def set_request_headers(api_client):
    access_token = get_access_token()
    api_client.set_default_header(header_name='Authorization',
                                  header_value='Bearer {}'.format(access_token))
```

```
def get_sessions_api():
    api_instance =
    swagger_client.SessionsApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance
```

Finally, we create a main method that calls the DescribeSessions API. For more information, see [DescribeSessions](#).

```
def describe_sessions(session_ids=None, next_token=None, tags=None, owner=None):
    filters = list()
    if tags:
        for tag in tags:
            filter_key_value_pair = KeyValuePair(key='tag:' + tag['Key'],
value=tag['Value'])
            filters.append(filter_key_value_pair)
    if owner:
        filter_key_value_pair = KeyValuePair(key='owner', value=owner)
        filters.append(filter_key_value_pair)

    request = DescribeSessionsRequestData(session_ids=session_ids, filters=filters,
next_token=next_token)
    print('Describe Sessions Request:', request)
    api_instance = get_sessions_api()
    api_response = api_instance.describe_sessions(body=request)
    print('Describe Sessions Response', api_response)

def main():
    describe_sessions(
        session_ids=['SessionId1895', 'SessionId1897'],
        owner='an owner 1890',
        tags=[{'Key': 'ram', 'Value': '4gb'}])
```

# Session Manager API reference

This reference provides details on the available API actions, required parameters, and response formats to enable you to effectively leverage the Session Manager API in your own systems. Using the Session Manager API, you can start, stop, and get details on interactive sessions. This allows you to automate and integrate functionality into your applications and workflows.

## Topics

- [CloseServers](#)
- [CreateSessions](#)
- [DescribeServers](#)
- [DescribeSessions](#)
- [DeleteSessions](#)
- [GetSessionConnectionData](#)
- [GetSessionScreenshots](#)
- [OpenServers](#)
- [UpdateSessionPermissions](#)

## CloseServers

Closes one or more Amazon DCV servers. When you close a Amazon DCV server, you make it unavailable for Amazon DCV session placement. You cannot create Amazon DCV sessions on *closed* servers. Closing a server ensures that no sessions are running on it and that users cannot create new sessions on it.

## Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### ServerId

The ID of the server to close.

Type: String

Required: Yes

### Force

Forces the close operation. If you specify `true`, the server is closed even if it has running sessions. The sessions continue to run.

Type: Boolean

Required: No

## Response parameters

### RequestId

The unique ID of the request.

### SuccessfulList

Information about the Amazon DCV servers that were successfully closed. This data structure includes the following nested response parameter:

#### ServerId

The ID of the server that was successfully closed.

### UnsuccessfulList

Information about the Amazon DCV servers that could not be closed. This data structure includes the following nested response parameters:

#### CloseServerRequestData

Information about the original request that failed. This data structure includes the following nested response parameter:

**ServerId**

The ID of the Amazon DCV server that could not be closed.

**Force**

The requested force parameter.

**FailureCode**

The code of the failure.

**FailureReason**

The reason for the failure.

## Example

### Python

#### Request

The following example closes two Amazon DCV servers (`serverId1` and `serverId2`). Server `serverId2` doesn't exist and results in a failure.

```
from swagger_client.models import CloseServerRequestData

def get_servers_api():
    api_instance =
    swagger_client.ServersApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def close_servers(server_ids):
    request = [CloseServerRequestData(server_id=server_id) for server_id in
server_ids]
    print('Close Servers Request:', request)
    api_instance = get_servers_api()
    api_response = api_instance.close_servers(body=request)
    print('Close Servers Response:', api_response)
    open_servers(server_ids)

def main():
    close_servers(["serverId1", "serverId2"])
```

## Response

The following is the sample output.

```
{
  "RequestId": "4d7839b2-a03c-4b34-a40d-06c8b21099e6",
  "SuccessfulList": [
    {
      "ServerId": "serverId1"
    }
  ],
  "UnsuccessfulList": [
    {
      "OpenServerRequestData": {
        "ServerId": "serverId2"
      },
      "FailureCode": "DCV_SERVER_NOT_FOUND",
      "FailureReason": "Dcv server not found."
    }
  ]
}
```

## CreateSessions

Creates a new Amazon DCV session with the specified details.

### API actions

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### Name

The name for the session.

Type: String

Required: Yes

## Owner

The name of the session owner. This must be the name of an existing user on the target Amazon DCV server.

Type: String

Required: Yes

## Type

The session type. For more information about the types of sessions, see [Introduction to Amazon DCV Sessions](#) in the *Amazon DCV Administrator Guide*.

Valid values: CONSOLE | VIRTUAL

Type: String

Required: Yes

## InitFile

Supported with virtual sessions on Linux Amazon DCV servers. It is not supported with console sessions on Windows and Linux Amazon DCV servers. The path to custom script on the Amazon DCV server to run for initializing the session when it is created. The file path is relative to the init directory specified for the agent `.init_folder` Agent configuration parameter. If the file is in the specified init directory, specify the file name only. If the file is not in the specified init directory, specify the relative path. For more information, see [Agent configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

Type: String

Required: No

## MaxConcurrents

The maximum number of concurrent Amazon DCV clients.

Type: Integer

Required: No

## DcvGLEnabled

Indicates whether the virtual session is configured to use hardware-based OpenGL. Supported with virtual sessions only. This parameter is not supported with Windows Amazon DCV servers.

Valid values: true | false

Type: Boolean

Required: No

### PermissionsFile

The Base64-encoded contents of the permissions file. Defaults to the server defaults if omitted. For more information, see [Configuring Amazon DCV Authorization](#) in the *Amazon DCV Administrator Guide*.

Type: String

Required: No

### EnqueueRequest

Indicates whether to queue the request if it can't be immediately fulfilled.

Type: Boolean

Default: false

Required: No

### AutorunFile

Supported with console sessions on Windows Amazon DCV servers and virtual sessions on Linux Amazon DCV servers. It is not supported with console sessions on Linux Amazon DCV servers.

The path to a file on the host server that is to be run inside the session. The file path is relative to the autorun directory specified for the agent `.autorun_folder` Agent configuration parameter. If the file is in the specified autorun directory, specify the file name only. If the file is not in the specified autorun directory, specify the relative path. For more information, see [Agent configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

The file is run on behalf of the specified **Owner**. The specified owner must have permission to run the file on the server. On Windows Amazon DCV servers, the file is run when the owner logs into the session. On Linux Amazon DCV servers, the file is run when the session is created.

Type: String

Required: No

## AutorunFileArguments

Supported with virtual sessions on Linux Amazon DCV servers. It is not supported in console sessions on Windows and Linux Amazon DCV servers. Command-line arguments passed to **AutorunFile** upon its execution inside the session. Arguments are passed in the order they appear into the given array. Maximum allowed number of arguments and maximum allowed length of each argument can be configured. For more information, see [Broker configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

Type: Array of strings

Required: No

## DisableRetryOnFailure

Indicates whether to not retry the create session request after it fails on a Amazon DCV host for any reason. For more information about create session retry mechanism, see [Broker configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

Type: Boolean

Default: false

Required: No

## Requirements

The requirements that the server must satisfy in order to place the session. The requirements can include server tags and/or server properties, both server tags and server properties are retrieved by calling the **DescribeServers** API.

Requirements condition expressions:

- $a \neq b$  true if  $a$  is not equal to  $b$
- $a = b$  true if  $a$  is equal to  $b$
- $a > b$  true if  $a$  is greater than  $b$
- $a \geq b$  true if  $a$  is greater than or equal to  $b$
- $a < b$  true if  $a$  is less than  $b$
- $a \leq b$  true if  $a$  is less than or equal to  $b$
- $a = b$  true if  $a$  contains the string  $b$

Requirements boolean operators:

- ***a* and *b*** true if *a* and *b* are true
- ***a* or *b*** true if *a* or *b* are true
- **not *a*** true if *a* is false

The tag keys must be prefixed by `tag:`, the server properties must be prefixed by `server:`.The requirements expressions supports parenthesis ( ).

Requirements examples:

- `tag:color = 'pink' and (server:Host.Os.Family = 'windows' or tag:color := 'red')`
- `"server:Host.Aws.Ec2InstanceType := 't2' and server:Host.CpuInfo.NumberOfCpus >= 2"`

Numerical values can be specified using the exponential notation, for example:

`"server:Host.Memory.TotalBytes > 1024E6"`.

The supported server properties are:

- `Id`
- `Hostname`
- `Version`
- `SessionManagerAgentVersion`
- `Host.Os.BuildNumber`
- `Host.Os.Family`
- `Host.Os.KernelVersion`
- `Host.Os.Name`
- `Host.Os.Version`
- `Host.Memory.TotalBytes`
- `Host.Memory.UsedBytes`
- `Host.Swap.TotalBytes`
- `Host.Swap.UsedBytes`
- `Host.CpuLoadAverage.OneMinute`
- `Host.CpuLoadAverage.FiveMinutes`

- `Host.CpuLoadAverage.FifteenMinutes`
- `Host.Aws.Ec2InstanceId`
- `Host.Aws.Ec2InstanceType`
- `Host.Aws.Region`
- `Host.Aws.Ec2ImageId`
- `Host.CpuInfo.Architecture`
- `Host.CpuInfo.ModelName`
- `Host.CpuInfo.NumberOfCpus`
- `Host.CpuInfo.PhysicalCoresPerCpu`
- `Host.CpuInfo.Vendor`

Type: String

Required: No

### **StorageRoot**

Specifies the path to the folder used for session storage. For more information about the Amazon DCV session storage, see [Enabling Session Storage](#) in the *Amazon DCV Administrator Guide*.

Type: String

Required: No

## **Response parameters**

### **Id**

The unique ID of the session.

### **Name**

The session name.

### **Owner**

The session owner.

## Type

The type of session.

## State

The state of the session. If the request completes successfully, the session enters the CREATING state.

## Substate

The substate of the session. If the request completes successfully, the substate enters the SESSION\_PLACING substate.

## Example

### Python

#### Request

The following example creates three sessions.

```
from swagger_client.models.create_session_request_data import
    CreateSessionRequestData

def get_sessions_api():
    api_instance =
    swagger_client.SessionsApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def create_sessions(sessions_to_create):
    create_sessions_request = list()
    for name, owner, session_type, init_file_path, autorun_file,
    autorun_file_arguments, max_concurrent_clients,\
        dcv_gl_enabled, permissions_file, requirements, storage_root in
    sessions_to_create:
        a_request = CreateSessionRequestData(
            name=name, owner=owner, type=session_type,
            init_file_path=init_file_path, autorun_file=autorun_file,
            autorun_file_arguments=autorun_file_arguments,
            max_concurrent_clients=max_concurrent_clients,
```

```

        dcv_gl_enabled=dcv_gl_enabled, permissions_file=permissions_file,
requirements=requirements, storage_root=storage_root)
        create_sessions_request.append(a_request)

    api_instance = get_sessions_api()
    print('Create Sessions Request:', create_sessions_request)
    api_response = api_instance.create_sessions(body=create_sessions_request)
    print('Create Sessions Response:', api_response)

def main():
    create_sessions([
        ('session1', 'user1', 'CONSOLE', None, None, None, 1, None, '/dcv/
permissions.file', "tag:os = 'windows' and server:Host.Memory.TotalBytes > 1024", "/
storage/root"),
        ('session2', 'user1', 'VIRTUAL', None, 'myapp.sh', None, 1, False, None, "tag:os
= 'linux'", None),
        ('session3', 'user1', 'VIRTUAL', '/dcv/script.sh', 'myapp.sh', ['argument1',
'argument2'], 1, False, None, "tag:os = 'linux'", None),
    ])

```

## Response

The following is the sample output.

```

{
    "RequestId": "e32d0b83-25f7-41e7-8c8b-e89326ecc87f",
    "SuccessfulList": [
        {
            "Id": "78b45deb-1163-46b1-879b-7d8fcbe9d9d6",
            "Name": "session1",
            "Owner": "user1",
            "Type": "CONSOLE",
            "State": "CREATING"
        },
        {
            "Id": " a0c743c4-9ff7-43ce-b13f-0c4d55a268dd",
            "Name": "session2",
            "Owner": "user1",
            "Type": "VIRTUAL",
            "State": "CREATING"
        },
        {
            "Id": " 10311636-df90-4cd1-bcf7-474e9675b7cd",
            "Name": "session3",

```

```
        "Owner": "user1",
        "Type": "VIRTUAL",
        "State": "CREATING"
    }
  ],
  "UnsuccessfulList": [
  ]
}
```

## DescribeServers

Describes one or more Amazon DCV servers.

### Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### ServerIds

The IDs of the Amazon DCV servers to describe. If no IDs are specified, all servers are returned in paginated output.

Type: Array of strings

Required: No

### NextToken

The token to use to retrieve the next page of results.

Type: String

Required: No

### MaxResults

The maximum number of results to be returned by the request in paginated output. When this parameter is used, the request returns only the specified number of results in a single page

along with a `NextToken` response element. The remaining results of the initial request can be seen by sending another request with the returned `NextToken` value.

Valid range: 1 - 1000

Default: 1000

Type: Integer

Required: No

## Response parameters

### **RequestId**

The unique ID of the request.

### **Servers**

Information about the Amazon DCV servers. This data structure includes the following nested response parameters:

#### **Id**

The unique ID of the Amazon DCV server.

#### **Ip**

The IP address of the Amazon DCV server.

#### **Hostname**

The hostname of the Amazon DCV server.

### **Endpoints**

Information about the Amazon DCV server endpoints. This data structure includes the following nested response parameters:

#### **IpAddress**

The IP address of the server endpoint.

#### **Port**

The port of the server endpoint.

## **Protocol**

The protocol used by the server endpoint. Possible values include:

- HTTP — The endpoint uses the WebSocket (TCP) protocol.
- QUIC — The endpoint uses the QUIC (UDP) protocol.

## **WebUrlPath**

The web URL path of the server endpoint. Available for the HTTP protocol only.

## **Version**

The version of the Amazon DCV server.

## **SessionManagerAgentVersion**

The version Session Manager Agent running on the Amazon DCV server.

## **Availability**

The availability of the Amazon DCV server. Possible values include:

- AVAILABLE — The server is available and ready for session placement.
- UNAVAILABLE — The server is unavailable and can't accept session placement.

## **UnavailabilityReason**

The reason for the Amazon DCV server's unavailability. Possible values include:

- SERVER\_FULL — The Amazon DCV server has reached the maximum number of concurrent sessions that it can run.
- SERVER\_CLOSED — The Amazon DCV server has been made unavailable using the **CloseServer** API.
- UNREACHABLE\_AGENT — The Session Manager Broker can't communicate with the Session Manager Agent on the Amazon DCV server.
- UNHEALTHY\_DCV\_SERVER — The Session Manager Agent can't communicate with the Amazon DCV server.
- EXISTING\_LOGGED\_IN\_USER — (Windows Amazon DCV servers only) A user is currently logged in to the Amazon DCV server using RDP.
- UNKNOWN — The Session Manager Broker is unable to determine the reason.

## **ConsoleSessionCount**

The number of console sessions on the Amazon DCV server.

## **VirtualSessionCount**

The number of virtual sessions on the Amazon DCV server.

## **Host**

Information about the host server on which the Amazon DCV server is running. This data structure includes the following nested response parameters:

### **Os**

Information about host server's operating system. This data structure includes the following nested response parameters:

#### **Family**

The operating system family. Possible values include:

- `windows` — The host server is running a Windows operating system.
- `linux` — The host server is running a Linux operating system.

#### **Name**

The name of the operating system.

#### **Version**

The version of the operating system.

#### **KernelVersion**

(Linux only) The kernel version of the operating system.

#### **BuildNumber**

(Windows only) The build number of the operating system.

## **Memory**

Information about the host server's memory. This data structure includes the following nested response parameters:

#### **TotalBytes**

The total memory, in bytes, on the host server.

#### **UsedBytes**

The used memory, in bytes, on the host server.

## Swap

Information about the host server's swap file. This data structure includes the following nested response parameters:

### **TotalBytes**

The total swap file size, in bytes, on the host server.

### **UsedBytes**

The used swap file size, in bytes, on the host server.

## Aws

Only for Amazon DCV servers running on an Amazon EC2 instance. AWS-specific information. This data structure includes the following nested response parameters:

### **Region**

The AWS Region of the Amazon EC2 instance.

### **Ec2InstanceType**

The type of Amazon EC2 instance.

### **Ec2InstanceId**

The ID of the Amazon EC2 instance.

### **Ec2ImageId**

The ID of the Amazon EC2 image.

## CpuInfo

Information about the host server's CPUs. This data structure includes the following nested response parameters:

### **Vendor**

The vendor of the host server's CPU.

### **ModelName**

The model name of the host server's CPU.

## **Architecture**

The architecture of the host server's CPU.

## **NumberOfCpus**

The number of CPUs on the host server.

## **PhysicalCorePerCpu**

The number of CPU cores per CPU.

## **CpuLoadAverage**

Information about the host server's CPU load. This data structure includes the following nested response parameters:

### **OneMinute**

The average CPU load over the last 1-minute period.

### **FiveMinutes**

The average CPU load over the last 5-minute period.

### **FifteenMinutes**

The average CPU load over the last 15-minute period.

## **Gpus**

Information about the host server's GPUs. This data structure includes the following nested response parameters:

### **Vendor**

The vendor of the host server's GPU.

### **ModelName**

The model name of the host server's GPU.

## **LoggedInUsers**

The users that are currently logged in to the host server. This data structure includes the following nested response parameter:

### **Username**

The user name of the logged in user.

## Tags

The tags assigned to the server. This data structure includes the following nested response parameters:

### Key

The tag key.

### Value

The tag value.

## Example

### Python

#### Request

The following example describes all available Amazon DCV servers. The results are paginated to show two results per page.

```
from swagger_client.models.describe_servers_request_data import
    DescribeServersRequestData

def get_servers_api():
    api_instance =
    swagger_client.ServersApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def describe_servers(server_ids=None, next_token=None, max_results=None):
    request = DescribeServersRequestData(server_ids=server_ids,
    next_token=next_token, max_results=max_results)
    print('Describe Servers Request:', request)
    api_instance = get_servers_api()
    api_response = api_instance.describe_servers(body=request)
    print('Describe Servers Response', api_response)

def main():
    describe_servers(max_results=2)
```

#### Response

The following is the sample output.

```
{
  "RequestId": "request-id-123",
  "Servers": [
    {
      "Id": "ServerId123",
      "Ip": "1.1.1.123",
      "Hostname": "node001",
      "DefaultDnsName": "node001",
      "Endpoints": [
        {
          "IpAddress": "x.x.x.x",
          "Port": 8443,
          "WebUrlPath": "/",
          "Protocol": "HTTP"
        }
      ],
      "Version": "2021.0.10000",
      "SessionManagerAgentVersion": "2021.0.300",
      "Availability": "UNAVAILABLE",
      "UnavailabilityReason": "SERVER_FULL",
      "ConsoleSessionCount": 1,
      "VirtualSessionCount": 0,
      "Host": {
        "Os": {
          "Family": "windows",
          "Name": "Windows Server 2016 Datacenter",
          "Version": "10.0.14393",
          "BuildNumber": "14393"
        },
        "Memory": {
          "TotalBytes": 8795672576,
          "UsedBytes": 1743886336
        },
        "Swap": {
          "TotalBytes": 0,
          "UsedBytes": 0
        },
        "Aws": {
          "Region": "us-west-2b",
          "EC2InstanceType": "t2.large",
          "EC2InstanceId": "i-123456789",
          "EC2ImageId": "ami-12345678987654321"
        }
      }
    }
  ]
}
```

```
    },
    "CpuInfo": {
      "Vendor": "GenuineIntel",
      "ModelName": "Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz",
      "Architecture": "x86_64",
      "NumberOfCpus": 2,
      "PhysicalCoresPerCpu": 3
    },
    "CpuLoadAverage": {
      "OneMinute": 0.04853546,
      "FiveMinutes": 0.21060601,
      "FifteenMinutes": 0.18792416
    },
    "Gpus": [],
    "LoggedInUsers": [
      {
        "Username": "Administrator"
      }
    ]
  },
  "Tags": [
    {
      "Key": "color",
      "Value": "pink"
    },
    {
      "Key": "dcv:os-family",
      "Value": "windows"
    },
    {
      "Key": "size",
      "Value": "small"
    },
    {
      "Key": "dcv:max-virtual-sessions",
      "Value": "0"
    }
  ]
},
{
  "Id": "server-id-12456897",
  "Ip": "1.1.1.145",
  "Hostname": "node002",
  "DefaultDnsName": "node002",
```

```
"Endpoints": [
  {
    "IpAddress": "x.x.x.x",
    "Port": 8443,
    "WebUrlPath": "/",
    "Protocol": "HTTP"
  },
  {
    "IpAddress": "x.x.x.x",
    "Port": 8443,
    "Protocol": "QUIC"
  }
],
"Version": "2021.0.10000",
"SessionManagerAgentVersion": "2021.0.0",
"Availability": "AVAILABLE",
"ConsoleSessionCount": 0,
"VirtualSessionCount": 5,
"Host": {
  "Os": {
    "Family": "linux",
    "Name": "Amazon Linux",
    "Version": "2",
    "KernelVersion": "4.14.203-156.332.amzn2.x86_64"
  },
  "Memory": {
    "TotalBytes": 32144048128,
    "UsedBytes": 2184925184
  },
  "Swap": {
    "TotalBytes": 0,
    "UsedBytes": 0
  },
  "Aws": {
    "Region": "us-west-2a",
    "EC2InstanceType": "g3s.xlarge",
    "EC2InstanceId": "i-123456789",
    "EC2ImageId": "ami-12345678987654321"
  },
  "CpuInfo": {
    "Vendor": "GenuineIntel",
    "ModelName": "Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz",
    "Architecture": "x86_64",
    "NumberOfCpus": 4,
```

```
        "PhysicalCoresPerCpu": 2
      },
      "CpuLoadAverage": {
        "OneMinute": 2.24,
        "FiveMinutes": 0.97,
        "FifteenMinutes": 0.74
      },
      "Gpus": [
        {
          "Vendor": "NVIDIA Corporation",
          "ModelName": "GM204GL [Tesla M60]"
        }
      ],
      "LoggedInUsers": [
        {
          "Username" : "user45687"
        },
        {
          "Username" : "user789"
        }
      ]
    },
    "Tags": [
      {
        "Key": "size",
        "Value": "big"
      },
      {
        "Key": "dcv:os-family",
        "Value": "linux"
      },
      {
        "Key": "dcv:max-virtual-sessions",
        "Value": "10"
      },
      {
        "Key": "color",
        "Value": "blue"
      }
    ]
  }
}
```

# DescribeSessions

Describes one or more Amazon DCV sessions.

## Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### SessionIds

The IDs of the sessions to describe.

Type: String

Required: No

### NextToken

The token to use to retrieve the next page of results.

Type: String

Required: No

### Filters

Additional filters to apply to the request. Supported filters include:

- `tag:key`—The tags assigned to the session.
- `owner`—The session owner.

Type: String

Required: No

## Response parameters

### **Id**

The unique ID of the session.

### **Name**

The name of the session.

### **Owner**

The owner of the session.

### **Server**

Information about the server on which the session is running. This data structure includes the following nested response parameters:

#### **Ip**

The IP address of the Amazon DCV server host.

#### **Hostname**

The hostname of the Amazon DCV server host.

#### **Port**

The port over which the Amazon DCV server communicates with Amazon DCV clients.

### **Endpoints**

Information about the Amazon DCV server endpoints. This data structure includes the following nested response parameters:

#### **IpAddress**

The IP address of the server endpoint.

#### **Port**

The port of the server endpoint.

## Protocol

The protocol used by the server endpoint. Possible values include:

- HTTP — The endpoint uses the WebSocket (TCP) protocol.
- QUIC — The endpoint uses the QUIC (UDP) protocol.

## WebUrlPath

The web URL path of the server endpoint. Available for the HTTP protocol only.

## Tags

The tags assigned to the server. This data structure includes the following nested response parameters:

### Key

The tag key.

### Value

The tag value.

## Type

The type of session.

## State

The current state of the session. Possible values are:

- CREATING - the Broker is in the process of creating the session.
- READY - the session is ready to accept client connections.
- DELETING - the session is being deleted.
- DELETED - the session has been deleted.
- UNKNOWN - unable to determine the session's state. The Broker and the Agent might be unable to communicate.

## Substate

The current substate of the session. Possible values are:

- SESSION\_PLACING - the session is waiting to be placed on an available DCV Server.

- `PENDING_PREPARATION` - the session is created but not usable; linked to a DCV Server.

## CreationTime

The date and time the session was created.

## LastDisconnectionTime

The date and time of the last client disconnection.

## NumOfConnections

The number of active client connections.

## StorageRoot

Specifies the path to the folder used for session storage. For more information about the Amazon DCV session storage, see [Enabling Session Storage](#) in the *Amazon DCV Administrator Guide*.

Type: String

Required: No

## Example

Python

### Request

The following example describes sessions that are owned by `user1` and have a tag of `os=windows`.

```
from swagger_client.models.describe_sessions_request_data import
    DescribeSessionsRequestData
from swagger_client.models.key_value_pair import KeyValuePair

def get_sessions_api():
    api_instance =
    swagger_client.SessionsApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
```

```
    return api_instance

def describe_sessions(session_ids=None, next_token=None, tags=None, owner=None):
    filters = list()
    if tags:
        for tag in tags:
            filter_key_value_pair = KeyValuePair(key='tag:' + tag['Key'],
value=tag['Value'])
            filters.append(filter_key_value_pair)
    if owner:
        filter_key_value_pair = KeyValuePair(key='owner', value=owner)
        filters.append(filter_key_value_pair)

    request = DescribeSessionsRequestData(session_ids=session_ids, filters=filters,
next_token=next_token)
    print('Describe Sessions Request:', request)
    api_instance = get_sessions_api()
    api_response = api_instance.describe_sessions(body=request)
    print('Describe Sessions Response', api_response)

def main():
    describe_sessions(
        owner='user1',
        tags=[{'Key': 'os', 'Value': 'windows'}])
```

## Response

The following is the sample output.

```
{
  "Sessions": [
    {
      "Id": "SessionId1897",
      "Name": "a session name",
      "Owner": "an owner 1890",
      "Server": {
        "Ip": "1.1.1.123",
        "Hostname": "server hostname",
        "Port": "1222",
        "Endpoints": [
          {
            "IpAddress": "x.x.x.x",
            "Port": 8443,
            "WebUrlPath": "/",

```

```

        "Protocol": "HTTP"
    },
    {
        "IpAddress": "x.x.x.x",
        "Port": 9443,
        "WebUrlPath": "/",
        "Protocol": "HTTP"
    },
    {
        "IpAddress": "x.x.x.x",
        "Port": 8443,
        "WebUrlPath": "",
        "Protocol": "QUIC"
    }
],
"Tags": [
    {
        "Key": "os",
        "Value": "windows"
    },
    {
        "Key": "ram",
        "Value": "4gb"
    }
]
},
"Type": "VIRTUAL",
"State": "READY",
"CreationTime": "2020-10-06T10:15:31.633Z",
"LastDisconnectionTime": "2020-10-06T10:15:31.633Z",
"NumOfConnections": 2,
"StorageRoot" : "/storage/root"
},
{
    "Id": "SessionId1895",
    "Name": "a session name",
    "Owner": "an owner 1890",
    "Server": {
        "Ip": "1.1.1.123",
        "Hostname": "server hostname",
        "Port": "1222",
        "Endpoints": [
            {
                "IpAddress": "x.x.x.x",

```

```
        "Port": 8443,
        "WebUrlPath": "/",
        "Protocol": "HTTP"
    },
    {
        "IpAddress": "x.x.x.x",
        "Port": 9443,
        "WebUrlPath": "/",
        "Protocol": "HTTP"
    },
    {
        "IpAddress": "x.x.x.x",
        "Port": 8443,
        "WebUrlPath": "",
        "Protocol": "QUIC"
    }
],
"Tags": [
    {
        "Key": "os",
        "Value": "windows"
    },
    {
        "Key": "ram",
        "Value": "4gb"
    }
]
},
"Type": "VIRTUAL",
"State": "DELETING",
"CreationTime": "2020-10-06T10:15:31.633Z",
"LastDisconnectionTime": "2020-10-06T10:15:31.633Z",
"NumOfConnections": 2,
"StorageRoot" : "/storage/root"
}
]
```

## DeleteSessions

Deletes the specified Amazon DCV session and removes it from the Broker's cache.

## Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### SessionId

The ID of the session to delete.

Type: String

Required: Yes

### Owner

The owner of the session to delete.

Type: String

Required: Yes

### Force

Removes a session from the Broker's cache with attempting to delete it from the Amazon DCV server. This is useful for removing outdated sessions from the Broker's cache. For example, if a Amazon DCV server was stopped, but the sessions are still registered on the Broker, use this flag to purge the sessions from the Broker's cache.

Keep in mind that if the session is still active, it is re-cached by the Broker.

Valid values: `true` | `false`

Type: Boolean

Required: No

## Response parameters

### SessionId

The ID of the session

### State

Only returned if the sessions were successfully deleted. Indicates the current state of the session. If the request completes successfully, the session transitions to the DELETING state. It could take a few minutes for the session to be deleted. When it has been deleted, the state transitions from DELETING to DELETED.

### FailureReason

Only returned if some sessions could not be deleted. Indicates why the session could not be deleted.

## Example

### Python

#### Request

The following example deletes two sessions—a session with an ID of SessionId123 that is owned by user1, and a session with an ID of SessionIdabc that is owned by user99.

```
from swagger_client.models.delete_session_request_data import
    DeleteSessionRequestData

def get_sessions_api():
    api_instance =
    swagger_client.SessionsApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def delete_sessions(sessions_to_delete, force=False):
    delete_sessions_request = list()
    for session_id, owner in sessions_to_delete:
        a_request = DeleteSessionRequestData(session_id=session_id, owner=owner,
        force=force)
        delete_sessions_request.append(a_request)
```

```
print('Delete Sessions Request:', delete_sessions_request)
api_instance = get_sessions_api()
api_response = api_instance.delete_sessions(body=delete_sessions_request)
print('Delete Sessions Response', api_response)

def main():
    delete_sessions([('SessionId123', 'an owner user1'), ('SessionIdabc',
'user99')])
```

## Response

The following is the sample output. SessionId123 was successfully deleted, while SessionIdabc could not be deleted.

```
{
  "RequestId": "10311636-df90-4cd1-bcf7-474e9675b7cd",
  "SuccessfulList": [
    {
      "SessionId": "SessionId123",
      "State": "DELETING"
    }
  ],
  "UnsuccessfulList": [
    {
      "SessionId": "SessionIdabc",
      "FailureReason": "The requested dcvSession does not exist"
    }
  ]
}
```

## GetSessionConnectionData

Gets connection information for a specific user's connection to a specific Amazon DCV session.

### Topics

- [Request parameters](#)
- [Response parameters](#)
- [Additional info](#)
- [Example](#)

## Request parameters

### SessionId

The ID of the session for which to view connection information.

Type: String

Required: Yes

### User

The name of the user for which to view connection information.

Type: String

Required: Yes

## Response parameters

### Id

The unique ID of the session.

### Name

The name of the session.

### Owner

The owner of the session.

### Server

Information about the server on which the session is running. This data structure includes the following nested response parameters:

#### Ip

The IP address of the Amazon DCV server host.

**Hostname**

The hostname of the Amazon DCV server host.

**Port**

The port over which the Amazon DCV server communicates with Amazon DCV clients.

**Endpoints**

Information about the Amazon DCV server endpoints. This data structure includes the following nested response parameters:

**IpAddress**

The IP address of the server endpoint.

**Port**

The port of the server endpoint.

**Protocol**

The protocol used by the server endpoint. Possible values include:

- HTTP — The endpoint uses the WebSocket (TCP) protocol.
- QUIC — The endpoint uses the QUIC (UDP) protocol.

**WebUrlPath**

The web URL path of the server endpoint. Available for the HTTP protocol only.

**WebUrlPath**

The path to the Amazon DCV server's configuration file.

**Tags**

The tags assigned to the server. This data structure includes the following nested response parameters:

**Key**

The tag key.

**Value**

The tag value.

## Type

The type of session.

## State

The current state of the session. Possible values are:

- CREATING - the Broker is in the process of creating the session.
- READY - the session is ready to accept client connections.
- DELETING - the session is being deleted.
- DELETED - the session has been deleted.
- UNKNOWN - unable to determine the session's state. The Broker and the Agent might be unable to communicate.

## CreationTime

The date and time the session was created.

## LastDisconnectionTime

The date and time of the last client disconnection.

## NumOfConnections

The number of concurrent connections the user has to the session.

## ConnectionToken

The authentication token used to connect to the session.

## Additional info

The information obtained from this API can be passed to a Amazon DCV client in order to connect to the Amazon DCV session.

In the case of the Amazon DCV Web client, you can build an URL that can be opened in the browser. The URL has the following format:

```
https://{Ip}:{Port}{WebUrlPath}?authToken={ConnectionToken}#{SessionId}.
```

In the case of the Amazon DCV native client, you can build an URL with the `dcv://` schema. When the Amazon DCV native client is installed, it registers itself with the system as the handler for `dcv://` URLs. The URL has the following format:

```
dcv://{Ip}:{Port}{WebUrlPath}?authToken={ConnectionToken}#{SessionId}.
```

### Note

If you're using Amazon EC2, the IP address should be the public one. If your configuration has Amazon DCV hosts behind a gateway, specify the gateway address rather than the one returned by the `SessionConnectionData` API.

## Example

### Python

#### Request

The following example gets connection information for a user with a user name of `user1` and a session with an ID of `sessionId12345`.

```
def get_session_connection_api():
    api_instance =
    swagger_client.GetSessionConnectionDataApi(swagger_client.ApiClient(get_client_configuration))
    set_request_headers(api_instance.api_client)
    return api_instance

def get_url_to_connect(api_response):
    ip_address = api_response.session.server.ip
    port = api_response.session.server.port
    web_url_path = api_response.session.server.web_url_path
    connection_token = api_response.connection_token
    session_id = api_response.session.id
    url = f'https://{ip_address}:{port}{web_url_path}?
authToken={connection_token}#{session_id}'
    return url
```

```
def get_session_connection_data(session_id, user):
    api_response =
    get_session_connection_api().get_session_connection_data(session_id=session_id,
    user=user)
    url_to_connect = get_url_to_connect(api_response)
    print('Get Session Connection Data Response:', api_response)
    print('URL to connect: ', url_to_connect)

def main():
    get_session_connection_data('sessionId12345', 'user1')
```

## Response

The following is the sample output.

```
{
  "Session": {
    "Id": "sessionId12345",
    "Name": "a session name",
    "Owner": "an owner 1890",
    "Server": {
      "Ip": "1.1.1.123",
      "Hostname": "server hostname",
      "Port": "1222",
      "endpoints": [
        {
          "port": 8443,
          "web_url_path": "/",
          "protocol": "HTTP"
        },
        {
          "port": 9443,
          "web_url_path": "/",
          "protocol": "HTTP"
        },
        {
          "port": 8443,
          "web_url_path": "",
          "protocol": "QUIC"
        }
      ]
    }
  },
}
```

```

        "WebUrlPath": "/path",
        "Tags": [
            {
                "Key": "os",
                "Value": "windows"
            },
            {
                "Key": "ram",
                "Value": "4gb"
            }
        ]
    },
    "Type": "VIRTUAL",
    "State": "UNKNOWN",
    "CreationTime": "2020-10-06T10:15:31.633Z",
    "LastDisconnectionTime": "2020-10-06T10:15:31.633Z",
    "NumOfConnections": 2
},
"ConnectionToken":
"EXAMPLEi0iJm0WM1YTRhZi1jZmU0LTQ0ZjEtYjZlOC04ZjY0YjM4ZTE2ZDkiLCJ0eXAiOiJKV1QiLCJhbGciOiJSUz
tngiKXevUxhhJvm3BPJYRs9NPE4GCJRTc13EXAMPLEIxNEPPH5IMcVmR0fU1WKPnry4ypPTp3rsZ7YWjCTSfs1GoN3R_
Kqtpd5GH0D-E8FwsedV-
Q2bRQ4y9y1q0MgFU4QjaSMypUuYR0YjkCaoainjmEZew4A33fG40wATrBvoivBiNwdNpytHX2CD0uk_k0k_DWeZjMvv9
h_GaMgHmltqBIA4jdPD7i0CmC2e7413KFy-
EQ4Ej1cM7RjLwhFuWpKWAVJxogJjYpfoKkaPo4KxvJjJIPYhksck1INQpe2W5rn1xCq7sC7ptcGw17DUobP7egRv9H37
hK1G4G8erHv19HlrTR9_c884fNrTCC8Dvc062e4KYdLkAhhJmboN9CAGIGFyd2c1AY_CzzvDL0EXAMPLE"
}

```

## GetSessionScreenshots

Gets screenshots of one or more Amazon DCV sessions.

To modify the image format, configure the `session-screenshot-format` parameter on the Session Manager Broker configuration. See [Broker configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

When the `MaxWidth` or `MaxHeight` parameters of the `GetSessionScreenshots` request are not specified, the `session-screenshot-max-width` and `session-screenshot-max-height` values set in the Session Manager Broker configuration file will be used. To modify those parameters, also see [Broker configuration file](#) in the *Amazon DCV Session Manager Administrator Guide*.

The upper value for the screenshot resolution is limited to the remote session resolution. If the `MaxWidth` and `MaxHeight` parameters are set to values higher than the current remote session resolution, the resulting screenshot will be limited to the actual session resolution.

### Note

To modify these values from the Access Console, see the [Web Client configuration file](#) in the *Amazon DCV Access Console Administrator Guide*. To modify these values with the Session Manager CLI, see `get-session-screenshots` in the *Amazon DCV CLI Guide*.

## Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### SessionId

The ID of the Amazon DCV session from which to get the screenshot.

Type: String

Required: Yes

### MaxWidth

The maximum width, in pixels, of session screenshots. If not specified, the values from the Session Manager Broker configuration will apply. If provided, this must be a number greater than 0.

Type: Integer

Required: No

### MaxHeight

The maximum height, in pixels, of session screenshots. If not specified, the values from the Session Manager Broker configuration will apply. If provided, this must be a number greater than 0.

Type: Integer

Required: Yes

## Response parameters

### RequestId

The unique ID of the request.

### SuccessfulList

Information about the successful screenshots. This data structure includes the following nested response parameters:

#### SessionScreenshot

Information about the screenshots. This data structure includes the following nested response parameters:

##### SessionId

The ID of the Amazon DCV session from which the screenshot was taken.

#### Images

Information about the images. This data structure includes the following nested response parameters:

##### Format

The format of the image. Possible values include: jpeg and png.

##### Data

The screenshot image base64 encoded format.

##### CreationTime

The date and time the screenshot was taken.

##### Primary

Indicates whether the screenshot is of the Amazon DCV session's primary display.

## UnsuccessfulList

Information about the unsuccessful screenshots. This data structure includes the following nested response parameters:

### GetSessionScreenshotRequestData

The original request that failed.

#### SessionId

The ID of the Amazon DCV session from which the screenshot was to be taken.

#### FailureReason

The reason for the failure.

### GetSessionScreenshotRequestData

The original request that failed.

## Example

Python

### Request

The following example gets screenshots from two sessions (`sessionId1` and `sessionId2`) with the max width set at 800 and the max height set at 600. Session `sessionId2` doesn't exist and results in a failure.

```
from swagger_client.models.describe_servers_request_data import
    GetSessionScreenshotRequestData

def get_sessions_api():
    api_instance =
    swagger_client.ServersApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def get_session_screenshots(session_ids, max_width=None, max_height=None):
    request = [GetSessionScreenshotRequestData(session_id=session_id,
        max_width=max_width, max_height=max_height) for session_id in session_ids]
```

```
print('Get Session Screenshots Request:', request)
api_instance = get_sessions_api()
api_response = api_instance.get_session_screenshots(body=request)
print('Get Session Screenshots Response:', api_response)

def main():
    get_session_screenshots(["sessionId1", "sessionId2"], 800, 600)
```

## Response

The following is the sample output.

```
{
  "RequestId": "542735ef-f6ab-47d8-90e5-23df31d8d166",
  "SuccessfulList": [
    {
      "SessionScreenshot": {
        "SessionId": "sessionId1",
        "Images": [
          {
            "Format": "png",
            "Data": "iVBORw0KGgoAAAANSUhEUgAAEXAMPLE",
            "CreationTime": "2021-03-30T15:47:06.822Z",
            "Primary": true
          }
        ]
      }
    }
  ],
  "UnsuccessfulList": [
    {
      "GetSessionScreenshotRequestData": {
        "SessionId": "sessionId2"
      },
      "FailureReason": "Dcv session not found."
    }
  ]
}
```

# OpenServers

Opens one or more Amazon DCV servers. Before you can create Amazon DCV sessions on a Amazon DCV server, you must change the server's state to *open*. After the Amazon DCV server is *open*, you can create Amazon DCV sessions on the server.

## Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### ServerId

The ID of the server to open.

Type: String

Required: Yes

## Response parameters

### RequestId

The unique ID of the request.

### SuccessfulList

Information about the Amazon DCV servers that were successfully opened. This data structure includes the following nested response parameter:

#### ServerId

The ID of the server that was successfully opened.

### UnsuccessfulList

Information about the Amazon DCV servers that could not be opened. This data structure includes the following nested response parameters:

## OpenServerRequestData

Information about the original request that failed. This data structure includes the following nested response parameter:

### ServerId

The ID of the Amazon DCV server that could not be opened.

### FailureCode

The code of the failure.

### FailureReason

The reason for the failure.

## Example

Python

### Request

The following example opens two Amazon DCV servers (serverId1 and serverId2).

```
from swagger_client.models import OpenServerRequestData

def get_servers_api():
    api_instance =
    swagger_client.ServersApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance

def open_servers(server_ids):
    request = [OpenServerRequestData(server_id=server_id) for server_id in
    server_ids]
    print('Open Servers Request:', request)
    api_instance = get_servers_api()
    api_response = api_instance.open_servers(body=request)
    print('Open Servers Response:', api_response)

def main():
    open_servers(["serverId1", "serverId2"])
```

## Response

The following is the sample output.

```
{
  "RequestId": "1e64830f-0a27-41bf-8147-0f3411791b64",
  "SuccessfulList": [
    {
      "ServerId": "serverId1"
    }
  ],
  "UnsuccessfulList": [
    {
      "OpenServerRequestData": {
        "ServerId": "serverId2"
      },
      "FailureCode": "DCV_SERVER_NOT_FOUND",
      "FailureReason": "Dcv server not found."
    }
  ]
}
```

## UpdateSessionPermissions

Updates the user permissions for a specific Amazon DCV session.

### Topics

- [Request parameters](#)
- [Response parameters](#)
- [Example](#)

## Request parameters

### SessionId

The ID of the session for which to change the permissions.

Type: String

Required: Yes

## Owner

The owner of the session for which to change the permissions.

Type: String

Required: Yes

## PermissionFile

The Base64-encoded content of the permissions file to use. For more information, see [Configuring Amazon DCV Authorization](#) in the *Amazon DCV Administrator Guide*.

Type: String

Required: Yes

## Response parameters

### SessionId

The ID of the session.

## Example

Python

### Request

The following example sets new permissions for a session with a session ID of SessionId1897.

```
from swagger_client.models.update_session_permissions_request_data import
    UpdateSessionPermissionsRequestData

def get_session_permissions_api():
    api_instance =
    swagger_client.SessionPermissionsApi(swagger_client.ApiClient(get_client_configuration()))
    set_request_headers(api_instance.api_client)
    return api_instance
def update_session_permissions(session_permissions_to_update):
    update_session_permissions_request = list()
```

```
for session_id, owner, permissions_base64_encoded in
session_permissions_to_update:
    a_request = UpdateSessionPermissionsRequestData(
        session_id=session_id, owner=owner,
permissions_file=permissions_base64_encoded)
        update_session_permissions_request.append(a_request)
    print('Update Session Permissions Request:', update_session_permissions_request)
    api_instance = get_session_permissions_api()
    api_response =
api_instance.update_session_permissions(body=update_session_permissions_request)
    print('Update Session Permissions Response:', api_response)

def main():
    update_session_permissions([('SessionId1897', 'an owner 1890',
'file_base64_encoded']])
```

## Response

The following is the sample output.

```
{
  'request_id': 'd68ebf66-4022-42b5-ba65-99f89b18c341',
  'successful_list': [
    {
      session_id: 'SessionId1897'
    }
  ],
  'unsuccessful_list': []
}
```

# Release notes and document history for Amazon DCV Session Manager

This page provides the release notes and document history for Amazon DCV Session Manager.

## Topics

- [Amazon DCV Session Manager release notes](#)
- [Document history](#)

## Amazon DCV Session Manager release notes

This section provides an overview of the major updates, feature releases, and bug fixes for Amazon DCV Session Manager. All the updates are organized by release date. We update the documentation frequently to address the feedback that you send us.

## Topics

- [2025.0-544— February 2, 2026](#)
- [2025.0-544— December 23, 2025](#)
- [2025.0-539— November 12, 2025](#)
- [2025.0-539— October 22, 2025](#)
- [2024.0-531— June 17, 2025](#)
- [2024.0-504— March 31, 2025](#)
- [2024.0-493— January 15, 2025](#)
- [2024.0-457— October 1, 2024](#)
- [2023.1-17652— August 1, 2024](#)
- [2023.1-16388— June 26, 2024](#)
- [2023.1— November 9, 2023](#)
- [2023.0-15065— May 4, 2023](#)
- [2023.0-14852— March 28, 2023](#)
- [2022.2-13907— November 11, 2022](#)
- [2022.1-13067— June 29, 2022](#)
- [2022.0-11952— February 23, 2022](#)

- [2021.3-11591— December 20, 2021](#)
- [2021.2-11445— November 18, 2021](#)
- [2021.2-11190— October 11, 2021](#)
- [2021.2-11042— September 01, 2021](#)
- [2021.1-10557— May 31, 2021](#)
- [2021.0-10242— April 12, 2021](#)
- [2020.2-9662— December 04, 2020](#)
- [2020.2-9508— November 11, 2020](#)

## 2025.0-544— February 2, 2026

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 544</li> <li>• Agent: 902</li> <li>• CLI: 159</li> </ul>	<ul style="list-style-type: none"> <li>• Added <code>preferred_network_interface</code> configuration parameter for host IP detection.</li> </ul>

## 2025.0-544— December 23, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 544</li> <li>• Agent: 893</li> <li>• CLI: 159</li> </ul>	<ul style="list-style-type: none"> <li>• Increased WebSocket message size limit to resolve screenshot retrieval failures on macOS hosts.</li> <li>• Updated Windows build environment to Visual Studio 2022.</li> </ul>

## 2025.0-539— November 12, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 539</li> <li>• Agent: 888</li> </ul>	<ul style="list-style-type: none"> <li>• Rebranded macOS Agent bundle identifier from NICE Software to Amazon.</li> </ul>

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• CLI: 159</li></ul>	

## 2025.0-539— October 22, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 539</li><li>• Agent: 886</li><li>• CLI: 159</li></ul>	<ul style="list-style-type: none"><li>• Added <code>enable_query_logged_in_users</code> configuration parameter to the Agent configuration file to specify logged users query behavior on Windows systems.</li><li>• Replaced PowerShell commands with native Windows APIs (WMI and Windows Registry) for improved performance and reliability when retrieving system information.</li><li>• Fixed DNS name resolution on Windows Amazon EC2 instances by improving Amazon EC2 detection with fallback to AWS metadata service when UUID-based detection fails.</li><li>• Updated version to 2025.</li></ul>

## 2024.0-531— June 17, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 531</li><li>• Agent: 852</li><li>• CLI: 154</li></ul>	<ul style="list-style-type: none"><li>• Added feature to renew certificates before expiry.</li><li>• Rebranded NICE DCV to Amazon DCV.</li><li>• Bug fixes.</li></ul>

## 2024.0-504— March 31, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 504</li><li>• Agent: 817</li></ul>	<ul style="list-style-type: none"><li>• Added support for AL2023.</li><li>• Bug fixes and performance improvements.</li></ul>

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• CLI: 154</li> </ul>	

## 2024.0-493— January 15, 2025

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 493</li> <li>• Agent: 801</li> <li>• CLI: 152</li> </ul>	<ul style="list-style-type: none"> <li>• Added parameters to the <code>GetSessionScreenshot</code> request to specify the maximum height and width of the screenshot.</li> <li>• Added parameter to the Broker configuration file that specifies the number of seconds after which session on an unreachable Amazon DCV server are deleted from the system.</li> <li>• Fixed an issue where the <code>seconds-before-deleting-unreachable-dcv-server</code> parameter in the Broker configuration file was not being honored.</li> <li>• Bug fixes and performance improvements.</li> </ul>

## 2024.0-457— October 1, 2024

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 457</li> <li>• Agent: 748</li> <li>• CLI: 140</li> </ul>	<ul style="list-style-type: none"> <li>• Rebranded NICE DCV to Amazon DCV.</li> <li>• Added support for Ubuntu 24.04.</li> </ul>

## 2023.1-17652— August 1, 2024

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 426</li> <li>• Agent: 748</li> </ul>	<ul style="list-style-type: none"> <li>• Bug fixes and performance improvements.</li> </ul>

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• CLI: 140</li></ul>	

## 2023.1-16388— June 26, 2024

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 417</li><li>• Agent: 748</li><li>• CLI: 140</li></ul>	<ul style="list-style-type: none"><li>• Fixed a bug that showed memory incorrectly as TB, not GB.</li><li>• Bug fixes and performance improvements.</li></ul>

## 2023.1— November 9, 2023

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 410</li><li>• Agent: 732</li><li>• CLI: 140</li></ul>	<ul style="list-style-type: none"><li>• Bug fixes and performance improvements</li></ul>

## 2023.0-15065— May 4, 2023

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 392</li><li>• Agent: 675</li><li>• CLI: 132</li></ul>	<ul style="list-style-type: none"><li>• Added support for Red Hat Enterprise Linux 9, Rocky Linux 9, and CentOS Stream 9 on ARM platforms.</li></ul>

## 2023.0-14852— March 28, 2023

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 392</li><li>• Agent: 642</li><li>• CLI: 132</li></ul>	<ul style="list-style-type: none"><li>• Added support for Red Hat Enterprise Linux 9, Rocky Linux 9, and CentOS Stream 9.</li></ul>

## 2022.2-13907— November 11, 2022

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 382</li><li>• Agent: 612</li><li>• CLI: 123</li></ul>	<ul style="list-style-type: none"><li>• Added a Substate field in DescribeSessions response.</li><li>• Fixed a problem that could cause the CLI to fail to connect to the broker depending on the URL in use.</li></ul>

## 2022.1-13067— June 29, 2022

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 355</li><li>• Agent: 592</li><li>• CLI: 114</li></ul>	<ul style="list-style-type: none"><li>• Added support to run the broker on AWS Graviton instances.</li><li>• Added agent and broker support for Ubuntu 22.04.</li></ul>

## 2022.0-11952— February 23, 2022

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 341</li><li>• Agent: 520</li><li>• CLI: 112</li></ul>	<ul style="list-style-type: none"><li>• Added log rotation capability to the Agent.</li><li>• Added configuration parameter to set Java home in the Broker.</li><li>• Improved data flushing from cache to disk in the Broker.</li></ul>

Build numbers	Changes and bug fixes
	<ul style="list-style-type: none"><li>• Fixed URL validation in the CLI.</li></ul>

## 2021.3-11591— December 20, 2021

Build numbers	New features
<ul style="list-style-type: none"><li>• Broker: 307</li><li>• Agent: 453</li><li>• CLI: 92</li></ul>	<ul style="list-style-type: none"><li>• Added support for integrating with the Amazon DCV Connection Gateway.</li><li>• Added Broker support for Ubuntu 18.04 and Ubuntu 20.04.</li></ul>

## 2021.2-11445— November 18, 2021

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 288</li><li>• Agent: 413</li><li>• CLI: 54</li></ul>	<ul style="list-style-type: none"><li>• Fixed a problem with the validation of login names which include a Windows domain.</li></ul>

## 2021.2-11190— October 11, 2021

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"><li>• Broker: 254</li><li>• Agent: 413</li><li>• CLI: 54</li></ul>	<ul style="list-style-type: none"><li>• Fixed a problem in the command line interface which prevented from launching Windows sessions.</li></ul>

## 2021.2-11042— September 01, 2021

Build numbers	New features	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 25</li> <li>• Agent: 413</li> <li>• CLI: 37</li> </ul>	<ul style="list-style-type: none"> <li>• Amazon DCV Session Manager now offers command line interface (CLI) support. You can create and manage Amazon DCV sessions in the CLI, instead of calling APIs.</li> <li>• Amazon DCV Session Manager introduced Broker data persistence. For higher availability, brokers can persist server state information on an external data store and restore the data at startup.</li> </ul>	<ul style="list-style-type: none"> <li>• When registering an external authorization server, you can now specify the algorithm that the authorization server uses to sign JSON-formatted Web Tokens. With this change, you can use Azure AD as an external authorization server.</li> </ul>

## 2021.1-10557— May 31, 2021

Build numbers	New features	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 21</li> <li>• Agent: 365</li> </ul>	<ul style="list-style-type: none"> <li>• Amazon DCV Session Manager added support for input parameters passed to the autorun file on Linux.</li> <li>• Server properties can now be passed as requirements to the <a href="#">CreateSessions</a> API.</li> </ul>	<ul style="list-style-type: none"> <li>• We fixed a problem with the autorun file on Windows.</li> </ul>

## 2021.0-10242— April 12, 2021

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>• Broker: 183</li> </ul>	<ul style="list-style-type: none"> <li>• Amazon DCV Session Manager introduced the following new APIs:</li> </ul>

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>Agent: 318</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">OpenServers</a></li> <li><a href="#">CloseServers</a></li> <li><a href="#">DescribeServers</a></li> <li><a href="#">GetSessionScreenshots</a></li> <li>It also introduced the following new configuration parameters:             <ul style="list-style-type: none"> <li><a href="#">Broker parameters</a>: <code>session-screenshot-max-width</code> , <code>session-screenshot-max-height</code> , <code>session-screenshot-format</code> , <code>create-sessions-queue-max-size</code> , and <code>create-sessions-queue-max-time-seconds</code> .</li> <li><a href="#">Agent parameters</a>: <code>agent.autorun_folder</code> , <code>max_virtual_sessions</code> , and <code>max_concurrent_sessions_per_user</code> .</li> </ul> <p><a href="#">Agent parameters</a>: <code>agent.autorun_folder</code> , <code>max_virtual_sessions</code> , and <code>max_concurrent_sessions_per_user</code> .</p> <p><a href="#">Agent parameters</a>: <code>agent.autorun_folder</code> , <code>max_virtual_sessions</code> , and <code>max_concurrent_sessions_per_user</code> .</p> </li> </ul>

## 2020.2-9662— December 04, 2020

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>Broker: 114</li> <li>Agent: 211</li> </ul>	<ul style="list-style-type: none"> <li>We fixed a problem with the auto-generated TLS certificates that prevented the Broker from starting.</li> </ul>

## 2020.2-9508— November 11, 2020

Build numbers	Changes and bug fixes
<ul style="list-style-type: none"> <li>Broker: 78</li> <li>Agent: 183</li> </ul>	<ul style="list-style-type: none"> <li>The initial release of Amazon DCV Session Manager.</li> </ul>

## Document history

The following table describes the documentation for this release of Amazon DCV Session Manager.

Change	Description	Date
Amazon DCV Version 2025.0-544	Amazon DCV Session Manager has been updated for Amazon DCV 2025.0-544. For more information, see <a href="#">2025.0-544— February 2, 2026</a> .	February 2, 2026
Amazon DCV Version 2025.0-544	Amazon DCV Session Manager has been updated for Amazon DCV 2025.0-544. For more information, see <a href="#">2025.0-544— December 23, 2025</a> .	December 23, 2025
Amazon DCV Version 2025.0-539	Amazon DCV Session Manager has been updated for Amazon DCV 2025.0-539. For more information, see <a href="#">2025.0-539— November 12, 2025</a> .	November 12, 2025
Amazon DCV Version 2025.0-539	Amazon DCV Session Manager has been updated for Amazon DCV 2025.0-539. For more information, see <a href="#">2025.0-539— October 22, 2025</a> .	October 22, 2025

Change	Description	Date
Amazon DCV Version 2024.0-531	Amazon DCV Session Manager has been updated for Amazon DCV 2024.0-531. For more information, see <a href="#">2024.0-531— June 17, 2025</a> .	June 17, 2025
Amazon DCV Version 2024.0-504	Amazon DCV Session Manager has been updated for Amazon DCV 2024.0-504. For more information, see <a href="#">2024.0-504— March 31, 2025</a> .	March 31, 2025
Amazon DCV Version 2024.0-493	Amazon DCV Session Manager has been updated for Amazon DCV 2024.0-493. For more information, see <a href="#">2024.0-493— January 15, 2025</a> .	January 15, 2025
Amazon DCV Version 2024.0-457	Amazon DCV Session Manager has been updated for Amazon DCV 2024.0-457. For more information, see <a href="#">2024.0-457— October 1, 2024</a> .	September 30, 2024
Amazon DCV Version 2023.1-17652	Amazon DCV Session Manager has been updated for Amazon DCV 2023.1-17652. For more information, see <a href="#">2023.1-17652— August 1, 2024</a> .	August 1, 2024
Amazon DCV Version 2023.1-16388	Amazon DCV Session Manager has been updated for Amazon DCV 2023.1-16388. For more information, see <a href="#">2023.1-16388— June 26, 2024</a> .	June 26, 2024

Change	Description	Date
Amazon DCV Version 2023.1	Amazon DCV Session Manager has been updated for Amazon DCV 2023.1. For more information, see <a href="#">2023.1—November 9, 2023</a> .	November 9, 2023
Amazon DCV Version 2023.0	Amazon DCV Session Manager has been updated for Amazon DCV 2023.0. For more information, see <a href="#">2023.0-14852—March 28, 2023</a> .	March 28, 2023
Amazon DCV Version 2022.2	Amazon DCV Session Manager has been updated for Amazon DCV 2022.2. For more information, see <a href="#">2022.2-13907—November 11, 2022</a> .	November 11, 2022
Amazon DCV Version 2022.1	Amazon DCV Session Manager has been updated for Amazon DCV 2022.1. For more information, see <a href="#">2022.1-13067—June 29, 2022</a> .	June 29, 2022
Amazon DCV Version 2022.0	Amazon DCV Session Manager has been updated for Amazon DCV 2022.0. For more information, see <a href="#">2022.0-11952—February 23, 2022</a> .	February 23, 2022
Amazon DCV Version 2021.3	Amazon DCV Session Manager has been updated for Amazon DCV 2021.3. For more information, see <a href="#">2021.3-11591—December 20, 2021</a> .	December 20, 2021
Amazon DCV Version 2021.2	Amazon DCV Session Manager has been updated for Amazon DCV 2021.2. For more information, see <a href="#">2021.2-11042—September 01, 2021</a> .	September 01, 2021

Change	Description	Date
Amazon DCV Version 2021.1	Amazon DCV Session Manager has been updated for Amazon DCV 2021.1. For more information, see <a href="#">2021.1-10557— May 31, 2021</a> .	May 31, 2021
Amazon DCV Version 2021.0	Amazon DCV Session Manager has been updated for Amazon DCV 2021.0. For more information, see <a href="#">2021.0-10242— April 12, 2021</a> .	April 12, 2021
Initial release of Amazon DCV Session Manager	The first publication of this content.	November 11, 2020