



## **View CIFS active sessions**

REST API reference

NetApp

September 12, 2025

This PDF was generated from [https://docs.netapp.com/us-en/ontap-restapi-98/protocols\\_cifs\\_sessions\\_endpoint\\_overview.html](https://docs.netapp.com/us-en/ontap-restapi-98/protocols_cifs_sessions_endpoint_overview.html) on September 12, 2025. Always check [docs.netapp.com](https://docs.netapp.com) for the latest.

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# View CIFS active sessions

## Protocols CIFS sessions endpoint overview

### Overview

ONTAP CIFS sessions `show` functionality is used to provide a list of currently established CIFS sessions.

The following lists the fields retrieved using the CIFS sessions GET API:

**node.name:** Node name hosting this record; basically the node hosting the "server\_ip". **node.uuid:** Node UUID hosting this record; basically the node hosting the "server\_ip". **svm.name:** Svm name to which the "server\_ip" belongs to. **svm.uuid:** Svm uuid to which the "server\_ip" belongs to. **server\_ip:** All clients connected to this interface are displayed in rows. **client\_ip:** IP address of the client connected to the interface. **identifier:** Unique identifier used to represent each SMB session. **connection\_id:** Unique identifier used to represent each SMB Connection. **authentication:** Type of authentication supported by the server when a client accesses a SMB share. **user:** Username for the Windows client. **mapped\_unix\_user:** Mapped UNIX user name. **open\_shares:** Number of shares opened by the client on a specific SVM. **open\_files:** Number of files opened by the client on a specific SVM. **open\_others:** Number of other files opened by the client on a specific SVM. **connected\_duration:** Time elapsed since the first request was sent by the client for this SMB session. **idle\_duration:** Time elapsed since the last request was sent by the client for this SMB session. **protocol:** SMB protocol dialects over which the client accesses the SMB share. **availability:** Level of continuous availability of protection provided to the files from the SMB share **smb\_signing:** Specifies whether SMB signing is enabled. **smb\_encryption:** Specifies the SMB session encryption status. **large\_mtu:** Specifies whether the SMB session's large MTU is enabled. **connection\_count:** Counter used to track requests that are sent to the volumes to the node. **volumes.name:** Name of the active volumes the client is accessing. **volumes.uuid:** UUID of the active volumes the client is accessing.

### Example

Retrieves established sessions information

```
# The API:  
GET /protocols/cifs/sessions  
  
# The call:  
curl -X GET "https://<cluster-mgmt-  
ip>/api/protocols/cifs/sessions?return_timeout=15&return_records=true" -H  
"accept: application/json"  
  
# The response:  
{  
  "records": [  
    {  
      "node": {  
        "uuid": "85d46998-4e5d-11ea-afb1-0050568ec4e4",  
        "name": "bkalyan-vsimg1"  
      },  
      "svm": {
```

```

    "uuid": "fc824aa8-4e60-11ea-afb1-0050568ec4e4",
    "name": "vs1"
  },
  "identifier": 625718873227788300,
  "connection_id": 91842,
  "lif_address": "10.140.70.197",
  "address": "10.74.7.182",
  "auth_mechanism": "ntlmv2",
  "windows_user": "NBCIFSQA2\\administrator",
  "unix_user": "root",
  "shares": 1,
  "files": 2,
  "other": 0,
  "connected_time": "PT16H54M47S",
  "idle_time": "PT3S",
  "protocol_version": "smb3_1",
  "continuously_available": "no",
  "is_session_signed": false,
  "smb_encryption_status": "unencrypted",
  "connection_count": 1,
  "is_large_mtu_enabled": true,
  "vol_names": [
    "vol12",
    "origin",
    "fg",
    "vol1"
  ],
  "vol_uuids": [
    "954d697f-4e62-11ea-afb1-0050568ec4e4",
    "0f909e06-4e6e-11ea-afb1-0050568ec4e4",
    "08c27b7d-4e61-11ea-afb1-0050568ec4e4",
    "02f0a240-4e61-11ea-afb1-0050568ec4e4"
  ]
},
{
  "node": {
    "uuid": "85d46998-4e5d-11ea-afb1-0050568ec4e4",
    "name": "bkalyan-vsim1"
  },
  "svm": {
    "uuid": "fc824aa8-4e60-11ea-afb1-0050568ec4e4",
    "name": "vs1"
  },
  "identifier": 625718873227788500,
  "connection_id": 92080,
  "lif_address": "10.140.70.197",

```

```

"address": "10.140.133.97",
"auth_mechanism": "ntlmv2",
"windows_user": "NBCIFSQA2\\administrator",
"unix_user": "root",
"shares": 1,
"files": 1,
"other": 0,
"connected_time": "PT1M19S",
"idle_time": "PT1M1S",
"protocol_version": "smb3",
"continuously_available": "no",
"is_session_signed": false,
"smb_encryption_status": "unencrypted",
"connection_count": 1,
"is_large_mtu_enabled": true,
"vol_names": [
    "origin",
    "fg",
    "vol1"
],
"vol_uuids": [
    "0f909e06-4e6e-11ea-afb1-0050568ec4e4",
    "08c27b7d-4e61-11ea-afb1-0050568ec4e4",
    "02f0a240-4e61-11ea-afb1-0050568ec4e4"
]
},
"num_records": 2
}
],
"num_records": 2
}

```

## Retrieve CIFS session information for all SVMs

GET /protocols/cifs/sessions

**Introduced In:** 9.8

Retrieves the CIFS sessions information for all SVMs.

### Related ONTAP commands

- vserver cifs session show -active-volumes

### Parameters

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
large_mtu	boolean	query	False	Filter by large_mtu
authentication	string	query	False	Filter by authentication
user	string	query	False	Filter by user
open_other	integer	query	False	Filter by open_other
client_ip	string	query	False	Filter by client_ip
smb_encryption	string	query	False	Filter by smb_encryption
continuous_availability	string	query	False	Filter by continuous_availability
connected_duration	string	query	False	Filter by connected_duration
mapped_unix_user	string	query	False	Filter by mapped_unix_user
idle_duration	string	query	False	Filter by idle_duration
volumes.uuid	string	query	False	Filter by volumes.uuid
volumes.name	string	query	False	Filter by volumes.name
open_shares	integer	query	False	Filter by open_shares
server_ip	string	query	False	Filter by server_ip
node.name	string	query	False	Filter by node.name
node.uuid	string	query	False	Filter by node.uuid

Name	Type	In	Required	Description
connection_id	integer	query	False	Filter by connection_id
smb_signing	boolean	query	False	Filter by smb_signing
open_files	integer	query	False	Filter by open_files
identifier	integer	query	False	Filter by identifier
protocol	string	query	False	Filter by protocol
connection_count	integer	query	False	Filter by connection_count
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
return_records	boolean	query	False	<p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>

Name	Type	In	Required	Description
order_by	array[string]	query	False	Order results by specified fields and optional [asc]

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[cifs_session]	

## Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "records": [  
    {  
      "_links": {  
        "self": {  
          "href": "/api/resourcelink"  
        }  
      },  
      "authentication": "ntlmv2",  
      "client_ip": "10.74.7.182",  
      "connected_duration": "P4DT84H30M5S",  
      "connection_count": "0",  
      "connection_id": "22802",  
      "continuous_availability": "no",  
      "identifier": "4622663542519103507",  
      "idle_duration": "P4DT84H30M5S",  
      "large_mtu": 1,  
      "mapped_unix_user": "root",  
      "node": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "node1",  
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
      },  
      "open_files": 0,  
      "open_other": 0,  
      "open_shares": 0,  
      "protocol": "smb3.1",  
      "server_ip": "10.140.78.248",  
      "smb_encryption": "unencrypted",  
      "smb_signing": "",  
      "svm": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        }  
      }  
    }  
  ]  
}
```

```

    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"user": "NBCIFSQA2\\administrator",
"volumes": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
]
}
]
}

```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{  
  "error": {  
    "arguments": [  
      {  
        "code": "string",  
        "message": "string"  
      }  
    ],  
    "code": "4",  
    "message": "entry doesn't exist",  
    "target": "uuid"  
  }  
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	href	
self	href	

\_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volumes

Name	Type	Description
_links	_links	
name	string	The name of the volume.

Name	Type	Description
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> </ul>

#### cifs\_session

Name	Type	Description
_links	<a href="#">_links</a>	
authentication	string	<p>SMB authentication over which the client accesses the share. The following values are supported:</p> <ul style="list-style-type: none"> <li>none - No authentication</li> <li>ntlmv1 - NtLm version 1 mechanism</li> <li>ntlmv2 - NtLm version 2 mechanism</li> <li>kerberos - Kerberos authentication</li> <li>anonymous - Anonymous mechanism</li> </ul>
client_ip	string	Specifies IP address of the client.
connected_duration	string	Specifies an ISO-8601 format of date and time used to retrieve the connected time duration in hours, minutes, and seconds format.
connection_count	integer	A counter used to track requests that are sent to the volumes to the node.
connection_id	integer	A unique identifier used to represent each SMB connection.

Name	Type	Description
continuous_availability	string	<p>The level of continuous availability protection provided to the SMB sessions and/or files.</p> <ul style="list-style-type: none"> <li>• no - Open file is not continuously available. For sessions, it contains one or more open files but none of them are continuously available.</li> <li>• yes - open file is continuously available. For sessions, it contains one or more open files and all of them are continuously available.</li> <li>• partial - Sessions only. Contains at least one continuously available open file with other files open but not continuously available.</li> </ul>
identifier	integer	A unique identifier used to represent each SMB session.
idle_duration	string	Specifies an ISO-8601 format of date and time used to retrieve the idle time duration in hours, minutes, and seconds format.
large_mtu	boolean	Specifies whether or not a large MTU is enabled for an SMB session.
mapped_unix_user	string	Indicated that a mapped UNIX user has logged in.
node	node	
open_files	integer	Number of files the SMB session has opened.
open_other	integer	Number of other files the SMB session has opened.
open_shares	integer	Number of shares the SMB session has opened.

Name	Type	Description
protocol	string	<p>The SMB protocol version over which the client accesses the volumes. The following values are supported:</p> <ul style="list-style-type: none"> <li>• smb1 - SMB version 1</li> <li>• smb2 - SMB version 2</li> <li>• smb2.1 - SMB version 2 minor version 1</li> <li>• smb3 - SMB version 3</li> <li>• smb3.1 - SMB version 3 minor version 1</li> </ul>
server_ip	string	Specifies the IP address of the SVM.
smb_encryption	string	<p>Indicates an SMB encryption state. The following values are supported:</p> <ul style="list-style-type: none"> <li>• unencrypted - SMB session is not encrypted</li> <li>• encrypted - SMB session is fully encrypted. SVM level encryption is enabled and encryption occurs for the entire session.</li> <li>• partially_encrypted - SMB session is partially encrypted. Share level encryption is enabled and encryption is initiated when the tree-connect occurs.</li> </ul>
smb_signing	boolean	Specifies whether or not SMB signing is enabled.
svm	<a href="#">svm</a>	
user	string	Indicates that a Windows user has logged in.
volumes	array[ <a href="#">volumes</a> ]	A group of volumes, the client is accessing.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve an SMB session information for an SMB connection in a SVM node

GET /protocols/cifs/sessions/{node.uuid}/{svm.uuid}/{identifier}/{connection\_id}

**Introduced In:** 9.8

Retrieves SMB session information for a specific SMB connection of a SVM in a node.

### Learn more

- [DOC /protocols/cifs/sessions](#)

### Parameters

Name	Type	In	Required	Description
node.uuid	string	path	True	Node UUID.
identifier	integer	path	True	Unique identifier for the SMB session.
connection_id	integer	path	True	Unique identifier for the SMB connection.

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
authentication	string	<p>SMB authentication over which the client accesses the share. The following values are supported:</p> <ul style="list-style-type: none"> <li>• none - No authentication</li> <li>• nt1mv1 - Nt1m version 1 mechanism</li> <li>• nt1mv2 - Nt1m version 2 mechanism</li> <li>• kerberos - Kerberos authentication</li> <li>• anonymous - Anonymous mechanism</li> </ul>
client_ip	string	Specifies IP address of the client.
connected_duration	string	Specifies an ISO-8601 format of date and time used to retrieve the connected time duration in hours, minutes, and seconds format.
connection_count	integer	A counter used to track requests that are sent to the volumes to the node.
connection_id	integer	A unique identifier used to represent each SMB connection.

Name	Type	Description
continuous_availability	string	<p>The level of continuous availability protection provided to the SMB sessions and/or files.</p> <ul style="list-style-type: none"> <li>• no - Open file is not continuously available. For sessions, it contains one or more open files but none of them are continuously available.</li> <li>• yes - open file is continuously available. For sessions, it contains one or more open files and all of them are continuously available.</li> <li>• partial - Sessions only. Contains at least one continuously available open file with other files open but not continuously available.</li> </ul>
identifier	integer	A unique identifier used to represent each SMB session.
idle_duration	string	Specifies an ISO-8601 format of date and time used to retrieve the idle time duration in hours, minutes, and seconds format.
large_mtu	boolean	Specifies whether or not a large MTU is enabled for an SMB session.
mapped_unix_user	string	Indicated that a mapped UNIX user has logged in.
node	node	
open_files	integer	Number of files the SMB session has opened.
open_other	integer	Number of other files the SMB session has opened.
open_shares	integer	Number of shares the SMB session has opened.

Name	Type	Description
protocol	string	<p>The SMB protocol version over which the client accesses the volumes. The following values are supported:</p> <ul style="list-style-type: none"> <li>• smb1 - SMB version 1</li> <li>• smb2 - SMB version 2</li> <li>• smb2.1 - SMB version 2 minor version 1</li> <li>• smb3 - SMB version 3</li> <li>• smb3.1 - SMB version 3 minor version 1</li> </ul>
server_ip	string	Specifies the IP address of the SVM.
smb_encryption	string	<p>Indicates an SMB encryption state. The following values are supported:</p> <ul style="list-style-type: none"> <li>• unencrypted - SMB session is not encrypted</li> <li>• encrypted - SMB session is fully encrypted. SVM level encryption is enabled and encryption occurs for the entire session.</li> <li>• partially_encrypted - SMB session is partially encrypted. Share level encryption is enabled and encryption is initiated when the tree-connect occurs.</li> </ul>
smb_signing	boolean	Specifies whether or not SMB signing is enabled.
svm	svm	
user	string	Indicates that a Windows user has logged in.
volumes	array[volumes]	A group of volumes, the client is accessing.

## Example response

```
{  
  "_links": {  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "authentication": "ntlmv2",  
  "client_ip": "10.74.7.182",  
  "connected_duration": "P4DT84H30M5S",  
  "connection_count": "0",  
  "connection_id": "22802",  
  "continuous_availability": "no",  
  "identifier": "4622663542519103507",  
  "idle_duration": "P4DT84H30M5S",  
  "large_mtu": 1,  
  "mapped_unix_user": "root",  
  "node": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "node1",  
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
  },  
  "open_files": 0,  
  "open_other": 0,  
  "open_shares": 0,  
  "protocol": "smb3.1",  
  "server_ip": "10.140.78.248",  
  "smb_encryption": "unencrypted",  
  "smb_signing": "",  
  "svm": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "svm1",  
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  },  
  "user": "NBCIIFSQA2\\administrator",  
  "volumes": [  
  ]
```

```

    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
]
}

```

## Error

Status: Default, Error

Name	Type	Description
error	error	

### Example error

```

{
    "error": {
        "arguments": [
            {
                "code": "string",
                "message": "string"
            }
        ],
        "code": "4",
        "message": "entry doesn't exist",
        "target": "uuid"
    }
}

```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volumes

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none"><li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li></ul>

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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