



View CIFS active sessions

ONTAP 9.8 REST API reference

NetApp
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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-vsml1"
      },
      "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-vs1m1"
  },
  "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
}

```

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"> • Default value: 1 • Max value: 120 • Min value: 0
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"> • Default value: 1

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

cifs_session

Name	Type	Description
_links	_links	
authentication	string	<p>SMB authentication over which the client accesses the share. The following values are supported:</p> <ul style="list-style-type: none"> • none - No authentication • ntlmv1 - Ntlm version 1 mechanism • ntlmv2 - Ntlm version 2 mechanism • kerberos - Kerberos authentication • anonymous - Anonymous mechanism
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"> • no - Open file is not continuously available. For sessions, it contains one or more open files but none of them are continuously available. • yes - open file is continuously available. For sessions, it contains one or more open files and all of them are continuously available. • partial - Sessions only. Contains at least one continuously available open file with other files open but not continuously available.
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	The SMB protocol version over which the client accesses the volumes. The following values are supported: <ul style="list-style-type: none"> • smb1 - SMB version 1 • smb2 - SMB version 2 • smb2.1 - SMB version 2 minor version 1 • smb3 - SMB version 3 • smb3.1 - SMB version 3 minor version 1
server_ip	string	Specifies the IP address of the SVM.
smb_encryption	string	Indicates an SMB encryption state. The following values are supported: <ul style="list-style-type: none"> • unencrypted - SMB session is not encrypted • encrypted - SMB session is fully encrypted. SVM level encryption is enabled and encryption occurs for the entire session. • partially_encrypted - SMB session is partially encrypted. Share level encryption is enabled and encryption is initiated when the tree-connect occurs.
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.

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	_links	
authentication	string	<p>SMB authentication over which the client accesses the share. The following values are supported:</p> <ul style="list-style-type: none"> • none - No authentication • ntlmv1 - Ntlm version 1 mechanism • ntlmv2 - Ntlm version 2 mechanism • kerberos - Kerberos authentication • anonymous - Anonymous mechanism
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"> • no - Open file is not continuously available. For sessions, it contains one or more open files but none of them are continuously available. • yes - open file is continuously available. For sessions, it contains one or more open files and all of them are continuously available. • partial - Sessions only. Contains at least one continuously available open file with other files open but not continuously available.
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"> • smb1 - SMB version 1 • smb2 - SMB version 2 • smb2.1 - SMB version 2 minor version 1 • smb3 - SMB version 3 • smb3.1 - SMB version 3 minor version 1
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"> • unencrypted - SMB session is not encrypted • encrypted - SMB session is fully encrypted. SVM level encryption is enabled and encryption occurs for the entire session. • partially_encrypted - SMB session is partially encrypted. Share level encryption is enabled and encryption is initiated when the tree-connect occurs.
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": "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
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">• example: 028baa66-41bd-11e9-81d5-00a0986138f7

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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