



# **Determine whether SMB sessions are continuously available**

**ONTAP 9**

NetApp

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# Table of Contents

Determine whether SMB sessions are continuously available .....	1
Display SMB session information .....	1
Display information about open SMB files in ONTAP .....	5

# Determine whether SMB sessions are continuously available

## Display SMB session information

You can display information about established SMB sessions, including the SMB connection and session ID and the IP address of the workstation using the session. You can display information about the session's SMB protocol version and continuously available protection level, which helps you to identify whether the session supports nondisruptive operations.

### About this task

You can display information for all of the sessions on your SVM in summary form. However, in many cases, the amount of output that is returned is large. You can customize what information is displayed in the output by specifying optional parameters:

- You can use the optional `-fields` parameter to display output about the fields you choose.

You can enter `-fields ?` to determine what fields you can use.

- You can use the `-instance` parameter to display detailed information about established SMB sessions.
- You can use the `-fields` parameter or the `-instance` parameter either alone or in combination with other optional parameters.

### Steps

1. Perform one of the following actions:

If you want to display SMB session information...	Enter the following command...
For all sessions on the SVM in summary form	<code>vserver cifs session show -vserver vserver_name</code>
On a specified connection ID	<code>vserver cifs session show -vserver vserver_name -connection-id integer</code>
From a specified workstation IP address	<code>vserver cifs session show -vserver vserver_name -address workstation_IP_address</code>
On a specified LIF IP address	<code>vserver cifs session show -vserver vserver_name -lif -address LIF_IP_address</code>
On a specified node	<code>vserver cifs session show -vserver vserver_name -node {node_name local}</code>

If you want to display SMB session information...	Enter the following command...
From a specified Windows user	<pre><b>vserver cifs session show -vserver vserver_name -windows -user user_name</b></pre> <p>The format for <code>user_name</code> is [domain] \user.</p>
With a specified authentication mechanism	<pre><b>vserver cifs session show -vserver vserver_name -auth -mechanism authentication_mechanism</b></pre> <p>The value for <code>-auth-mechanism</code> can be one of the following:</p> <ul style="list-style-type: none"> <li>• NTLMv1</li> <li>• NTLMv2</li> <li>• Kerberos</li> <li>• Anonymous</li> </ul>
With a specified protocol version	<pre><b>vserver cifs session show -vserver vserver_name -protocol -version protocol_version</b></pre> <p>The value for <code>-protocol-version</code> can be one of the following:</p> <ul style="list-style-type: none"> <li>• SMB1</li> <li>• SMB2</li> <li>• SMB2_1</li> <li>• SMB3</li> <li>• SMB3_1</li> </ul> <p> Continuously available protection and SMB Multichannel are available only on SMB 3.0 and later sessions. To view their status on all qualifying sessions, you should specify this parameter with the value set to SMB3 or later.</p>

If you want to display SMB session information...	Enter the following command...
With a specified level of continuously available protection	<pre><b>vserver cifs session show -vserver vserver_name -continuously-available continuously_available_protection_level</b></pre> <p>The value for <code>-continuously-available</code> can be one of the following:</p> <ul style="list-style-type: none"> <li>• No</li> <li>• Yes</li> <li>• Partial</li> </ul> <p> If the continuously available status is Partial, this means that the session contains at least one open continuously available file, but the session has some files that are not open with continuously available protection. You can use the <code>vserver cifs sessions file show</code> command to determine which files on the established session are not open with continuously available protection.</p>
With a specified SMB signing session status	<pre><b>vserver cifs session show -vserver vserver_name -is-session-signed {true false}</b></pre>

## Examples

The following command displays session information for the sessions on SVM vs1 established from a workstation with IP address 10.1.1.1:

```
cluster1::> vserver cifs session show -address 10.1.1.1
Node:      node1
Vserver:   vs1
Connection Session
ID          ID      Workstation          Windows User      Open      Idle
-----  -----  -----
3151272279,
3151272280,
3151272281  1      10.1.1.1          DOMAIN\joe      2          23s
```

The following command displays detailed session information for sessions with continuously available protection on SVM vs1. The connection was made by using the domain account.

```
cluster1::> vserver cifs session show -instance -continuously-available
Yes

          Node: node1
          Vserver: vs1
          Session ID: 1
          Connection ID: 3151274158
Incoming Data LIF IP Address: 10.2.1.1
          Workstation IP address: 10.1.1.2
          Authentication Mechanism: Kerberos
          Windows User: DOMAIN\SERVER1$
          UNIX User: pcuser
          Open Shares: 1
          Open Files: 1
          Open Other: 0
          Connected Time: 10m 43s
          Idle Time: 1m 19s
          Protocol Version: SMB3
Continuously Available: Yes
          Is Session Signed: false
          User Authenticated as: domain-user
          NetBIOS Name: -
          SMB Encryption Status: Unencrypted
```

The following command displays session information on a session using SMB 3.0 and SMB Multichannel on SVM vs1. In the example, the user connected to this share from an SMB 3.0 capable client by using the LIF IP address; therefore, the authentication mechanism defaulted to NTLMv2. The connection must be made by using Kerberos authentication to connect with continuously available protection.

```
cluster1::> vserver cifs session show -instance -protocol-version SMB3

          Node: node1
          Vserver: vs1
          Session ID: 1
          **Connection IDs: 3151272607,31512726078,3151272609
          Connection Count: 3**
Incoming Data LIF IP Address: 10.2.1.2
  Workstation IP address: 10.1.1.3
  Authentication Mechanism: NTLMv2
    Windows User: DOMAIN\administrator
    UNIX User: pcuser
    Open Shares: 1
    Open Files: 0
    Open Other: 0
  Connected Time: 6m 22s
    Idle Time: 5m 42s
  Protocol Version: SMB3
Continuously Available: No
  Is Session Signed: false
  User Authenticated as: domain-user
  NetBIOS Name: -
  SMB Encryption Status: Unencrypted
```

## Display information about open SMB files in ONTAP

You can display information about open SMB files, including the SMB connection and session ID, the hosting volume, the share name, and the share path. You can also display information about the continuously available protection level of a file, which is helpful in determining whether an open file is in a state that supports nondisruptive operations.

### About this task

You can display information about open files on an established SMB session. The displayed information is useful when you need to determine SMB session information for particular files within an SMB session.

For example, if you have an SMB session where some of the open files are open with continuously available protection and some are not open with continuously available protection (the value for the `-continuously-available` field in `vserver cifs session show` command output is `Partial`), you can determine which files are not continuously available by using this command.

You can display information for all open files on established SMB sessions on storage virtual machines (SVMs) in summary form by using the `vserver cifs session file show` command without any optional parameters.

However, in many cases, the amount of output returned is large. You can customize what information is displayed in the output by specifying optional parameters. This can be helpful when you want to view information for only a small subset of open files.

- You can use the optional `-fields` parameter to display output on the fields you choose.

You can use this parameter either alone or in combination with other optional parameters.

- You can use the `-instance` parameter to display detailed information about open SMB files.

You can use this parameter either alone or in combination with other optional parameters.

## Steps

1. Perform one of the following actions:

If you want to display open SMB files...	Enter the following command...
On the SVM in summary form	<code>vserver cifs session file show -vserver vserver_name</code>
On a specified node	<code>vserver cifs session file show -vserver vserver_name -node {node_name local}</code>
On a specified file ID	<code>vserver cifs session file show -vserver vserver_name -file-id integer</code>
On a specified SMB connection ID	<code>vserver cifs session file show -vserver vserver_name -connection-id integer</code>
On a specified SMB session ID	<code>vserver cifs session file show -vserver vserver_name -session-id integer</code>
On the specified hosting aggregate	<code>vserver cifs session file show -vserver vserver_name -hosting -aggregate aggregate_name</code>
On the specified volume	<code>vserver cifs session file show -vserver vserver_name -hosting-volume volume_name</code>
On the specified SMB share	<code>vserver cifs session file show -vserver vserver_name -share share_name</code>
On the specified SMB path	<code>vserver cifs session file show -vserver vserver_name -path path</code>

If you want to display open SMB files...	Enter the following command...
With the specified level of continuously available protection	<pre data-bbox="845 175 1437 302"><b>vserver cifs session file show</b> <b>-vserver vserver_name -continuously</b> <b>-available</b> <b>continuously_available_status</b></pre> <p data-bbox="845 344 1462 407">The value for <code>-continuously-available</code> can be one of the following:</p> <ul data-bbox="866 449 948 530" style="list-style-type: none"> <li data-bbox="866 449 948 481">• No</li> <li data-bbox="866 502 948 530">• Yes</li> </ul> <p data-bbox="926 713 980 762" style="text-align: center;"></p> <p data-bbox="1041 582 1449 889">If the continuously available status is <code>No</code>, this means that these open files are not capable of nondisruptively recovering from takeover and giveback. They also cannot recover from general aggregate relocation between partners in a high-availability relationship.</p>
With the specified reconnected state	<pre data-bbox="845 977 1421 1083"><b>vserver cifs session file show</b> <b>-vserver vserver_name -reconnected</b> <b>reconnected_state</b></pre> <p data-bbox="845 1125 1449 1189">The value for <code>-reconnected</code> can be one of the following:</p> <ul data-bbox="866 1231 948 1311" style="list-style-type: none"> <li data-bbox="866 1231 948 1262">• No</li> <li data-bbox="866 1284 948 1311">• Yes</li> </ul> <p data-bbox="926 1522 980 1571" style="text-align: center;"></p> <p data-bbox="1041 1364 1462 1733">If the reconnected state is <code>No</code>, the open file is not reconnected after a disconnection event. This can mean that the file was never disconnected, or that the file was disconnected and is not successfully reconnected. If the reconnected state is <code>Yes</code>, this means that the open file is successfully reconnected after a disconnection event.</p>

There are additional optional parameters that you can use to refine the output results. Learn more about the commands described in this procedure in the [ONTAP command reference](#).

## Examples

The following example displays information about open files on SVM vs1:

```
cluster1::> vserver cifs session file show -vserver vs1
Node:      node1
Vserver:   vs1
Connection: 3151274158
Session:   1
File      File      Open Hosting          Continuously
ID        Type      Mode Volume      Share
-----  -----
41       Regular    r     data       data      Available
Path: \mytest.rtf
```

The following example displays detailed information about open SMB files with file ID 82 on SVM vs1:

```
cluster1::> vserver cifs session file show -vserver vs1 -file-id 82
-instance

          Node: node1
          Vserver: vs1
          File ID: 82
          Connection ID: 104617
          Session ID: 1
          File Type: Regular
          Open Mode: rw
Aggregate Hosting File: aggr1
Volume Hosting File: data1
          CIFS Share: data1
Path from CIFS Share: windows\win8\test\test.txt
          Share Mode: rw
          Range Locks: 1
Continuously Available: Yes
          Reconnected: No
```

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