



# **Manage NetBIOS aliases for SMB servers**

## **ONTAP 9**

NetApp  
February 16, 2023

# Table of Contents

- Manage NetBIOS aliases for SMB servers ..... 1
  - Manage NetBIOS aliases for SMB servers overview ..... 1
  - Add a list of NetBIOS aliases to the SMB server ..... 1
  - Remove NetBIOS aliases from the NetBIOS alias list ..... 2
  - Display the list of NetBIOS aliases on CIFS servers ..... 3
  - Determine whether SMB clients are connected using NetBIOS aliases ..... 4

# Manage NetBIOS aliases for SMB servers

## Manage NetBIOS aliases for SMB servers overview

NetBIOS aliases are alternative names for your SMB server that SMB clients can use when connecting to the SMB server. Configuring NetBIOS aliases for a SMB server can be useful when you are consolidating data from other file servers to the SMB server and want the SMB server to respond to the original file servers' names.

You can specify a list of NetBIOS aliases when you create the SMB server or at any time after you create the SMB server. You can add or remove NetBIOS aliases from the list at any time. You can connect to the SMB server using any of the names in the NetBIOS alias list.

### Related information

[Displaying information about NetBIOS over TCP connections](#)

## Add a list of NetBIOS aliases to the SMB server

If you want SMB clients to connect to the SMB server by using an alias, you can create a list of NetBIOS aliases, or you can add NetBIOS aliases to an existing list of NetBIOS aliases.

### About this task

- The NetBIOS alias name can be 15 up to characters in length.
- You can configure up to 200 NetBIOS aliases on the SMB server.
- The following characters are not allowed:

@ # \* ( ) = + [ ] | ; : " , < > \ / ?

### Steps

1. Add the NetBIOS aliases:

```
vserver cifs add-netbios-aliases -vserver vserver_name -netbios-aliases  
NetBIOS_alias,...
```

```
vserver cifs add-netbios-aliases -vserver vs1 -netbios-aliases  
alias_1,alias_2,alias_3
```

- You can specify one or more NetBIOS aliases by using a comma-delimited list.
- The specified NetBIOS aliases are added to the existing list.
- A new list of NetBIOS aliases is created if the list is currently empty.

2. Verify that the NetBIOS aliases were added correctly: `vserver cifs show -vserver vserver_name -display-netbios-aliases`

```
vserver cifs show -vserver vs1 -display-netbios-aliases
```

```
Vserver: vs1
```

```
Server Name: CIFS_SERVER
```

```
NetBIOS Aliases: ALIAS_1, ALIAS_2, ALIAS_3
```

## Related information

[Removing NetBIOS aliases from the NetBIOS alias list](#)

[Displaying the list of NetBIOS aliases on CIFS servers](#)

# Remove NetBIOS aliases from the NetBIOS alias list

If you do not need specific NetBIOS aliases for a CIFS server, you can remove those NetBIOS aliases from the list. You can also remove all NetBIOS aliases from the list.

## About this task

You can remove more than one NetBIOS alias by using a comma-delimited list. You can remove all of the NetBIOS aliases on a CIFS server by specifying `-` as the value for the `-netbios-aliases` parameter.

## Steps

1. Perform one of the following actions:

If you want to remove...	Enter...
Specific NetBIOS aliases from the list	<pre>vserver cifs remove-netbios-aliases -vserver _vserver_name_ -netbios -aliases _NetBIOS_alias_,...</pre>
All NetBIOS aliases from the list	<pre>vserver cifs remove-netbios-aliases -vserver vserver_name -netbios-aliases -</pre>

```
vserver cifs remove-netbios-aliases -vserver vs1 -netbios-aliases alias_1
```

2. Verify that the specified NetBIOS aliases were removed: `vserver cifs show -vserver vserver_name -display-netbios-aliases`

```
vserver cifs show -vserver vs1 -display-netbios-aliases
```

```
Vserver: vs1
```

```
Server Name: CIFS_SERVER
```

```
NetBIOS Aliases: ALIAS_2, ALIAS_3
```

# Display the list of NetBIOS aliases on CIFS servers

You can display the list of NetBIOS aliases. This can be useful when you want to determine the list of names over which SMB clients can make connections to the CIFS server.

## Step

1. Perform one of the following actions:

If you want to display information about...	Enter...
A CIFS server's NetBIOS aliases	<code>vserver cifs show -display-netbios -aliases</code>
The list of NetBIOS aliases as part of the detailed CIFS server information	<code>vserver cifs show -instance</code>

The following example displays information about a CIFS server's NetBIOS aliases:

```
vserver cifs show -display-netbios-aliases
```

```
Vserver: vs1

      Server Name: CIFS_SERVER
      NetBIOS Aliases: ALIAS_1, ALIAS_2, ALIAS_3
```

The following example displays the list of NetBIOS aliases as part of the detailed CIFS server information:

```
vserver cifs show -instance
```

```

                                Vserver: vs1
                                CIFS Server NetBIOS Name: CIFS_SERVER
                                NetBIOS Domain/Workgroup Name: EXAMPLE
                                Fully Qualified Domain Name: EXAMPLE.COM
Default Site Used by LIFs Without Site Membership:
                                Authentication Style: domain
                                CIFS Server Administrative Status: up
                                CIFS Server Description:
                                List of NetBIOS Aliases: ALIAS_1, ALIAS_2,
ALIAS_3
```

See the man page for the commands for more information.

## Related information

[Adding a list of NetBIOS aliases to the CIFS server](#)

## Determine whether SMB clients are connected using NetBIOS aliases

You can determine whether SMB clients are connected using NetBIOS aliases, and if so, which NetBIOS alias is used to make the connection. This can be useful when troubleshooting connection issues.

### About this task

You must use the `-instance` parameter to display the NetBIOS alias (if any) associated with an SMB connection. If the CIFS server name or an IP address is used to make the SMB connection, the output for the `NetBIOS Name` field is `-` (hyphen).

### Step

1. Perform the desired action:

If you want to display NetBIOS information for...	Enter...
SMB connections	<code>vserver cifs session show -instance</code>
Connections using a specified NetBIOS alias:	<code>vserver cifs session show -instance -netbios-name <i>netbios_name</i></code>

The following example displays information about the NetBIOS alias used to make the SMB connection with session ID 1:

```
vserver cifs session show -session-id 1 -instance
```

Node: node1  
Vserver: vs1  
Session ID: 1  
Connection ID: 127834  
Incoming Data LIF IP Address: 10.1.1.25  
Workstation: 10.2.2.50  
Authentication Mechanism: NTLMv2  
Windows User: EXAMPLE\user1  
UNIX User: user1  
Open Shares: 2  
Open Files: 2  
Open Other: 0  
Connected Time: 1d 1h 10m 5s  
Idle Time: 22s  
Protocol Version: SMB3  
Continuously Available: No  
Is Session Signed: true  
User Authenticated as: domain-user  
NetBIOS Name: ALIAS1  
SMB Encryption Status: Unencrypted

## Copyright information

Copyright © 2023 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.