Manage NetBIOS aliases for SMB servers

ONTAP 9

NetApp
November 19, 2022

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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	`vserver cifs remove-netbios-aliases -vserver _vserver_name_ -netbios -aliases _NetBIOS_alias_,...`
All NetBIOS aliases from the list	`vserver cifs remove-netbios-aliases -vserver` *`vserver_name`* `-netbios-aliases -`

```
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	`vserver cifs show -display-netbios -aliases`
The list of NetBIOS aliases as part of the detailed CIFS server information	`vserver cifs show -instance`

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	`vserver cifs session show -instance`
Connections using a specified NetBIOS alias:	`vserver cifs session show -instance -netbios-name` *`netbios_name`*

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
```

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