

Set up an SMB server in a workgroup ONTAP 9

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Set up an SMB server in a workgroup

Set up an SMB server in a workgroup overview

Setting up an SMB server as a member in a workgroup consists of creating the SMB server, and then creating local users and groups.

You can configure an SMB server in a workgroup when the Microsoft Active Directory domain infrastructure is not available.

An SMB server in workgroup mode supports only NTLM authentication and does not support Kerberos authentication.

Create an SMB server in a workgroup

You can use the vserver cifs create command to create an SMB server on the SVM and specify the workgroup to which it belongs.

Before you begin

The SVM and LIFs that you are using to serve data must have been configured to allow the SMB protocol. The LIFs must be able to connect to the DNS servers that are configured on the SVM.

About this task

SMB servers in workgroup mode do not support the following SMB features:

- SMB3 Witness protocol
- SMB3 CA shares
- SQL over SMB
- Folder Redirection
- Roaming Profiles
- Group Policy Object (GPO)
- Volume Snapshot Service (VSS)

The vserver cifs man pages contain additional optional configuration parameters and naming requirements.

Steps

1. Verify that SMB is licensed on your cluster: system license show -package cifs

The SMB license is included with ONTAP One. If you don't have ONTAP One and the license is not installed, contact your sales representative.

A CIFS license is not required if the SMB server will be used for authentication only.

2. Create the SMB server in a workgroup: vserver cifs create -vserver vserver_name -cifs -server cifs_server_name -workgroup workgroup_name [-comment text]

The following command creates the SMB server "smb_server01" in the workgroup "workgroup01":

```
cluster1::> vserver cifs create -vserver vs1.example.com -cifs-server
SMB_SERVER01 -workgroup workgroup01
```

3. Verify the SMB server configuration by using the vserver cifs show command.

In the following example, the command output shows that a SMB server named "smb_server01" was created on SVM vs1.example.com in the workgroup "workgroup01":

After you finish

For a CIFS server in a workgroup, you must create local users, and optionally local groups, on the SVM.

Related information

SMB management

Create local user accounts

You can create a local user account that can be used to authorize access to data contained in the SVM over an SMB connection. You can also use local user accounts for authentication when creating an SMB session.

About this task

Local user functionality is enabled by default when the SVM is created.

When you create a local user account, you must specify a user name and you must specify the SVM with which to associate the account.

The vserver cifs users-and-groups local-user man pages contain details about optional parameters and naming requirements.

Steps

1. Create the local user: vserver cifs users-and-groups local-user create -vserver vserver name -user-name user name optional parameters

The following optional parameters might be useful:

° -full-name

The users's full name.

° -description

A description for the local user.

```
° -is-account-disabled {true|false}
```

Specifies whether the user account is enabled or disabled. If this parameter is not specified, the default is to enable the user account.

The command prompts for the local user's password.

- 2. Enter a password for the local user, and then confirm the password.
- 3. Verify that the user was successfully created: vserver cifs users-and-groups local-user show -vserver vserver_name

Example

The following example creates a local user "SMB_SERVER01\sue", with a full name "Sue Chang", associated with SVM vs1.example.com:

Create local groups

You can create local groups that can be used for authorizing access to data associated with the SVM over an SMB connection. You can also assign privileges that define what user rights or capabilities a member of the group has.

About this task

Local group functionality is enabled by default when the SVM is created.

When you create a local group, you must specify a name for the group and you must specify the SVM with

which to associate the group. You can specify a group name with or without the local domain name, and you can optionally specify a description for the local group. You cannot add a local group to another local group.

The vserver cifs users-and-groups local-group man pages contain details about optional parameters and naming requirements.

Steps

1. Create the local group: vserver cifs users-and-groups local-group create -vserver vserver_name -group-name group_name

The following optional parameter might be useful:

° -description

A description for the local group.

2. Verify that the group was successfully created: vserver cifs users-and-groups local-group show -vserver vserver_name

Example

The following example creates a local group "SMB_SERVER01\engineering" associated with SVM vs1:

```
cluster1::> vserver cifs users-and-groups local-group create -vserver
vsl.example.com -group-name SMB SERVER01\engineering
cluster1::> vserver cifs users-and-groups local-group show -vserver
vs1.example.com
         Group Name
Vserver
                                        Description
_____
vsl.example.com BUILTIN\Administrators
                                        Built-in Administrators
group
vsl.example.com BUILTIN\Backup Operators Backup Operators group
vsl.example.com BUILTIN\Power Users
                                        Restricted administrative
privileges
vsl.example.com BUILTIN\Users
                                        All users
vs1.example.com SMB SERVER01\engineering
vs1.example.com SMB SERVER01\sales
```

After you finish

You must add members to the new group.

Manage local group membership

You can manage local group membership by adding and removing local or domain users, or adding and removing domain groups. This is useful if you want to control access to data based on access controls placed on the group, or if you want users to have privileges associated with that group.

About this task

If you no longer want a local user, domain user, or domain group to have access rights or privileges based on membership in a group, you can remove the member from the group.

You must keep the following in mind when adding members to a local group:

- You cannot add users to the special Everyone group.
- You cannot add a local group to another local group.
- To add a domain user or group to a local group, ONTAP must be able to resolve the name to a SID.

You must keep the following in mind when removing members from a local group:

- You cannot remove members from the special *Everyone* group.
- To remove a member from a local group, ONTAP must be able to resolve their name to a SID.

Steps

- 1. Add a member to or remove a member from a group.
 - Add a member: vserver cifs users-and-groups local-group add-members -vserver vserver name -group-name group name -member-names name[,...]

You can specify a comma-delimited list of local users, domain users, or domain groups to add to the specified local group.

Remove a member: vserver cifs users-and-groups local-group remove-members
 -vserver vserver name -group-name group name -member-names name[,...]

You can specify a comma-delimited list of local users, domain users, or domain groups to remove from the specified local group.

Examples

The following example adds a local user "SMB_SERVER01\sue" to the local group "SMB_SERVER01\engineering" on SVM vs1.example.com:

cluster1::> vserver cifs users-and-groups local-group add-members -vserver vs1.example.com -group-name SMB_SERVER01\engineering -member-names SMB_SERVER01\sue

The following example removes the local users "SMB_SERVER01\sue" and "SMB_SERVER01\james" from the local group "SMB_SERVER01\engineering" on SVM vs1.example.com:

```
cluster1::> vserver cifs users-and-groups local-group remove-members
-vserver vs1.example.com -group-name SMB_SERVER\engineering -member-names
SMB_SERVER\sue,SMB_SERVER\james
```

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