



# **Secure file access by using SMB share ACLs**

**ONTAP 9**

NetApp  
January 08, 2026

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# Secure file access by using SMB share ACLs

## Learn about managing ONTAP SMB share-level ACLs

You can change share-level ACLs to give users more or less access rights to the share. You can configure share-level ACLs by using either Windows users and groups or UNIX users and groups.

By default, the share-level ACL gives full control to the standard group named Everyone. Full control in the ACL means that all users in the domain and all trusted domains have full access to the share. You can control the level of access for a share-level ACL by using the Microsoft Management Console (MMC) on a Windows client or the ONTAP command line. [Create share access control lists](#).

The following guidelines apply when you use the MMC:

- The user and group names specified must be Windows names.
- You can specify only Windows permissions.

The following guidelines apply when you use the ONTAP command line:

- The user and group names specified can be Windows names or UNIX names.

If a user and group type is not specified when creating or modifying ACLs, the default type is Windows users and groups.

- You can specify only Windows permissions.

## Create ONTAP SMB share access control lists

Configuring share permissions by creating access control lists (ACLs) for SMB shares enables you to control the level of access to a share for users and groups.

### About this task

You can configure share-level ACLs by using local or domain Windows user or group names or UNIX user or group names.

Before creating a new ACL, you should delete the default share ACL `Everyone / Full Control`, which poses a security risk.

In workgroup mode, the local domain name is the SMB server name.

### Steps

1. Delete the default share ACL: ``vserver cifs share access-control delete -vserver <vserver_name> -share <share_name> -user-or-group Everyone``
2. Configure the new ACL:

If you want to configure ACLs by using a...	Enter the command...
Windows user	<pre>vserver cifs share access-control create -vserver &lt;vserver_name&gt; -share &lt;share_name&gt; -user-group-type windows -user-or-group &lt;Windows_domain_name\user_name&gt; -permission &lt;access_right&gt;</pre>
Windows group	<pre>vserver cifs share access-control create -vserver &lt;vserver_name&gt; -share &lt;share_name&gt; -user-group-type windows -user-or-group &lt;Windows_domain_name\group_name&gt; -permission &lt;access_right&gt;</pre>
UNIX user	<pre>vserver cifs share access-control create -vserver &lt;vserver_name&gt; -share &lt;share_name&gt; -user-group-type &lt;unix- user&gt; -user-or-group &lt;UNIX_user_name&gt; -permission &lt;access_right&gt;</pre>
UNIX group	<pre>vserver cifs share access-control create -vserver &lt;vserver_name&gt; -share &lt;share_name&gt; -user-group-type &lt;unix- group&gt; -user-or-group &lt;UNIX_group_name&gt; -permission &lt;access_right&gt;</pre>

3. Verify that the ACL applied to the share is correct by using the `vserver cifs share access-control show` command.

### Example

The following command gives Change permissions to the "Sales Team" Windows group for the "sales" share on the "`vs1.example.com`" SVM:

```
cluster1::> vsserver cifs share access-control create -vsserver
vs1.example.com -share sales -user-or-group "DOMAIN\Sales Team"
-permission Change
```

```
cluster1::> vsserver cifs share access-control show -vsserver
vs1.example.com
```

Vserver	Share Name	User/Group Name	User/Group Type	Access Permission
vs1.example.com	c\$	BUILTIN\Administrators	windows	Full_Control
vs1.example.com	sales	DOMAIN\Sales Team	windows	Change

The following command gives Read permission to the "engineering" UNIX group for the "eng" share on the "vs2.example.com" SVM:

```
cluster1::> vsserver cifs share access-control create -vsserver
vs2.example.com -share eng -user-group-type unix-group -user-or-group
engineering -permission Read
```

```
cluster1::> vsserver cifs share access-control show -vsserver
vs2.example.com
```

Vserver	Share Name	User/Group Name	User/Group Type	Access Permission
vs2.example.com	c\$	BUILTIN\Administrators	windows	Full_Control
vs2.example.com	eng	engineering	unix-group	Read

The following commands give Change permission to the local Windows group named "Tiger Team" and Full\_Control permission to the local Windows user named "Sue Chang" for the "datavol5" share on the "vs1" SVM:

```
cluster1::> vserver cifs share access-control create -vserver vs1 -share
datavol5 -user-group-type windows -user-or-group "Tiger Team" -permission
Change
```

```
cluster1::> vserver cifs share access-control create -vserver vs1 -share
datavol5 -user-group-type windows -user-or-group "Sue Chang" -permission
Full_Control
```

```
cluster1::> vserver cifs share access-control show -vserver vs1
```

Vserver	Share	User/Group	User/Group	Access
Permission	Name	Name	Type	
-----	-----	-----	-----	
-----				
vs1	c\$	BUILTIN\Administrators	windows	
Full_Control				
vs1	datavol5	Tiger Team	windows	Change
vs1	datavol5	Sue Chang	windows	Full_Control

## ONTAP commands for managing SMB share access control lists

You need to know the commands for managing SMB access control lists (ACLs), which includes creating, displaying, modifying, and deleting them.

If you want to...	Use this command...
Create a new ACL	<code>vserver cifs share access-control create</code>
Display ACLs	<code>vserver cifs share access-control show</code>
Modify an ACL	<code>vserver cifs share access-control modify</code>
Delete an ACL	<code>vserver cifs share access-control delete</code>

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