

# Secure file access by using SMB share ACLs

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# Secure file access by using SMB share ACLs

### **Guidelines for managing 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.

After you create a share, by default, the share-level ACL gives read access to the standard group named Everyone. Read access in the ACL means that all users in the domain and all trusted domains have read-only access to the share.

You can change a share-level ACL by using the Microsoft Management Console (MMC) on a Windows client or the ONTAP command line.

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 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	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type windows -user-or-group Windows_domain_name\user_name -permission access_right
Windows group	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type windows -user-or-group Windows_domain_name\group_name -permission access_right
UNIX user	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type unix-user -user-or-group UNIX_user_name -permission access_right
UNIX group	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type unix-group -user-or-group UNIX_group_name -permission access_right

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 <code>Change</code> permissions to the "Sales Team" Windows group for the "sales" share on the "vs1.example.com' "SVM:

```
cluster1::> vserver cifs share access-control create -vserver
vs1.example.com -share sales -user-or-group "DOMAIN\Sales Team"
-permission Change
cluster1::> vserver cifs share access-control show -vserver
vs1.example.com
              Share
                       User/Group
                                             User/Group Access
              Name
                        Name
Vserver
                                             Type
Permission
_____
_____
vs1.example.com c$
                 BUILTIN\Administrators windows
Full Control
vsl.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::> vserver cifs share access-control create -vserver
vs2.example.com -share eng -user-group-type unix-group -user-or-group
engineering -permission Read
cluster1::> vserver cifs share access-control show -vserver
vs2.example.com
                         User/Group
                                                  User/Group Access
               Share
Vserver
               Name
                         Name
                                                  Type
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 Share User/Group User/Group Access Name Name Vserver Type Permission \_\_\_\_\_ c\$ BUILTIN\Administrators windows vs1 Full Control vs1 datavol5 Tiger Team windows Change datavol5 Sue Chang windows vs1 Full Control

## 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	vserver cifs share access-control create
Display ACLs	vserver cifs share access-control show
Modify an ACL	vserver cifs share access-control modify
Delete an ACL	vserver cifs share access-control delete

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