# **■** NetApp

## Manage access-control roles

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## **Table of Contents**

| Manage access-control roles                  |  |
|--|--|
| Manage access-control roles overview         |  |
| Modify the role assigned to an administrator |  |
| Define custom roles                          |  |
| Predefined roles for cluster administrators  |  |
| Predefined roles for SVM administrators      |  |

## Manage access-control roles

## Manage access-control roles overview

The role assigned to an administrator determines the commands to which the administrator has access. You assign the role when you create the account for the administrator. You can assign a different role or define custom roles as needed.

## Modify the role assigned to an administrator

You can use the security login modify command to change the role of a cluster or SVM administrator account. You can assign a predefined or custom role.

### What you'll need

You must be a cluster administrator to perform this task.

#### Step

1. Change the role of a cluster or SVM administrator:

security login modify -vserver SVM\_name -user-or-group-name user\_or\_group\_name -application application -authmethod authentication\_method -role role -comment comment

For complete command syntax, see the worksheet.

#### Creating or modifying login accounts

The following command changes the role of the AD cluster administrator account DOMAIN1\guest1 to the predefined readonly role.

```
cluster1::>security login modify -vserver engCluster -user-or-group-name
DOMAIN1\guest1 -application ssh -authmethod domain -role readonly
```

The following command changes the role of the SVM administrator accounts in the AD group account DOMAIN1\adgroup to the custom vol role role.

```
cluster1::>security login modify -vserver engData -user-or-group-name
DOMAIN1\adgroup -application ssh -authmethod domain -role vol role
```

## **Define custom roles**

You can use the security login role create command to define a custom role. You can execute the command as many times as necessary to achieve the exact combination of capabilities that you want to associate with the role.

#### What you'll need

You must be a cluster administrator to perform this task.

#### About this task

 A role, whether predefined or custom, grants or denies access to ONTAP commands or command directories.

A command directory (volume, for example) is a group of related commands and command subdirectories. Except as described in this procedure, granting or denying access to a command directory grants or denies access to each command in the directory and its subdirectories.

· Specific command access or subdirectory access overrides parent directory access.

If a role is defined with a command directory, and then is defined again with a different access level for a specific command or for a subdirectory of the parent directory, the access level that is specified for the command or subdirectory overrides that of the parent.



You cannot assign an SVM administrator a role that gives access to a command or command directory that is available only to the admin cluster administrator—for example, the security command directory.

### Step

1. Define a custom role:

```
security login role create -vserver SVM_name -role role -cmddirname command or directory name -access access level -query query
```

For complete command syntax, see the worksheet.

The following commands grant the vol\_role role full access to the commands in the volume command directory and read-only access to the commands in the volume snapshot subdirectory.

```
cluster1::>security login role create -role vol_role -cmddirname
"volume" -access all

cluster1::>security login role create -role vol_role -cmddirname "volume
snapshot" -access readonly
```

The following commands grant the SVM\_storage role read-only access to the commands in the storage command directory, no access to the commands in the storage encryption subdirectory, and full access to the storage aggregate plex offline nonintrinsic command.

```
cluster1::>security login role create -role SVM_storage -cmddirname
"storage" -access readonly

cluster1::>security login role create -role SVM_storage -cmddirname
"storage encryption" -access none

cluster1::>security login role create -role SVM_storage -cmddirname
"storage aggregate plex offline" -access all
```

## Predefined roles for cluster administrators

The predefined roles for cluster administrators should meet most of your needs. You can create custom roles as necessary. By default, a cluster administrator is assigned the predefined admin role.

The following table lists the predefined roles for cluster administrators:

| This role |     | To the following commands or command directories |
|-----------|-----|--|
| admin     | all | All command directories ( DEFAULT)               |

| admin-no-fsa (available beginning in ONTAP 9.12.1) | Read/Write | <ul> <li>All command directories (DEFAULT)</li> <li>security login rest- role</li> <li>security login role</li> </ul>  |
|--|------------|--|
|  | Read only  | <ul> <li>security login restrole create</li> <li>security login restrole delete</li> <li>security login restrole modify</li> <li>security login restrole show</li> <li>security login role create</li> </ul>         |
|  |            | <ul> <li>security login role create</li> <li>security login role delete</li> <li>security login role modify</li> <li>security login role show</li> <li>volume activity-tracking</li> <li>volume analytics</li> </ul> |
|  | None       | volume file show-disk-<br>usage  |
| autosupport  | all        | • set • system node autosupport  |
|  | none       | All other command directories (DEFAULT)  |

| backup   | all      | vserver services ndmp   |
|----------|----------|---|
|          | readonly | volume  |
|          | none     | All other command directories (DEFAULT)   |
| readonly | all      | <ul> <li>security login password</li> <li>For managing own user account local password and key information only</li> <li>set</li> </ul> |
|          | none     | security  |
|          | readonly | All other command directories (DEFAULT)   |
| none     | none     | All command directories ( DEFAULT)  |



The autosupport role is assigned to the predefined autosupport account, which is used by AutoSupport OnDemand. ONTAP prevents you from modifying or deleting the autosupport account. ONTAP also prevents you from assigning the autosupport role to other user accounts.

## Predefined roles for SVM administrators

The predefined roles for SVM administrators should meet most of your needs. You can create custom roles as necessary. By default, an SVM administrator is assigned the predefined vsadmin role.

The following table lists the predefined roles for SVM administrators:

| vsadmin          | <ul> <li>Managing own user account local password and<br/>key information</li> </ul> |
|------------------|--|
|                  | Managing volumes, except volume moves  |
|                  | <ul> <li>Managing quotas, qtrees, Snapshot copies, and files</li> </ul>              |
|                  | Managing LUNs  |
|                  | <ul> <li>Performing SnapLock operations, except<br/>privileged delete</li> </ul>     |
|                  | <ul> <li>Configuring protocols: NFS, SMB, iSCSI, and FC. including FCoE</li> </ul>   |
|                  | <ul> <li>Configuring services: DNS, LDAP, and NIS</li> </ul>                         |
|                  | Monitoring jobs  |
|                  | <ul> <li>Monitoring network connections and network interface</li> </ul>             |
|                  | <ul> <li>Monitoring the health of the SVM</li> </ul>                                 |
| vsadmin-volume   | <ul> <li>Managing own user account local password and<br/>key information</li> </ul> |
|                  | Managing volumes, including volume moves   |
|                  | <ul> <li>Managing quotas, qtrees, Snapshot copies, and files</li> </ul>              |
|                  | Managing LUNs  |
|                  | <ul> <li>Configuring protocols: NFS, SMB, iSCSI, and FC, including FCoE</li> </ul>   |
|                  | <ul> <li>Configuring services: DNS, LDAP, and NIS</li> </ul>                         |
|                  | <ul> <li>Monitoring network interface</li> </ul>                                     |
|                  | Monitoring the health of the SVM   |
| vsadmin-protocol | <ul> <li>Managing own user account local password and<br/>key information</li> </ul> |
|                  | <ul> <li>Configuring protocols: NFS, SMB, iSCSI, and FC, including FCoE</li> </ul>   |
|                  | <ul> <li>Configuring services: DNS, LDAP, and NIS</li> </ul>                         |
|                  | Managing LUNs  |
|                  | Monitoring network interface   |
|                  | Monitoring the health of the SVM   |
|                  |  |

| vsadmin-backup   | <ul> <li>Managing own user account local password and<br/>key information</li> </ul> |
|------------------|--|
|                  | Managing NDMP operations   |
|                  | Making a restored volume read/write  |
|                  | <ul> <li>Managing SnapMirror relationships and Snapshot copies</li> </ul>            |
|                  | Viewing volumes and network information  |
| vsadmin-snaplock | <ul> <li>Managing own user account local password and<br/>key information</li> </ul> |
|                  | <ul> <li>Managing volumes, except volume moves</li> </ul>                            |
|                  | <ul> <li>Managing quotas, qtrees, Snapshot copies, and files</li> </ul>              |
|                  | <ul> <li>Performing SnapLock operations, including<br/>privileged delete</li> </ul>  |
|                  | Configuring protocols: NFS and SMB   |
|                  | <ul> <li>Configuring services: DNS, LDAP, and NIS</li> </ul>                         |
|                  | Monitoring jobs  |
|                  | Monitoring network connections and network interface                                 |
| vsadmin-readonly | Managing own user account local password and<br>key information                      |
|                  | <ul> <li>Monitoring the health of the SVM</li> </ul>                                 |
|                  | Monitoring network interface   |
|                  | Viewing volumes and LUNs   |
|                  | Viewing services and protocols   |
|                  |  |

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