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Manage access-control roles

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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.

Before you begin

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.

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.

Before you begin

You must be a cluster administrator to perform this task.

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	Has this level of access	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	 All command directories (DEFAULT) security login rest- role security login role
	Read only	 security login restrole create security login restrole delete security login restrole modify security login restrole show security login role create
		 security login role create security login role delete security login role modify security login role show volume activity-tracking volume analytics
	None	volume file show-disk- 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	 security login password For managing own user account local password and key information only set
	none	security
	readonly	All other command directories (DEFAULT)
snaplock	all	setvolume createvolume modifyvolume movevolume show
	none	• volume move governor • volume move recommend
	none	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 ${\tt vsadmin}$ role.

The following table lists the predefined roles for SVM administrators:

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

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

The role assigned to an administrator determines which functions the administrator can perform with System Manager. Predefined roles for cluster administrators and storage VM administrators are provided by System Manager. You assign the role when you create the administrator's account, or you can assign a different role later.

Depending on how you have enabled account access, you might need to perform any of the following:

- · Associate a public key with a local account.
- Install a CA-signed server digital certificate.
- · Configure AD, LDAP, or NIS access.

You can perform these tasks before or after enabling account access.

Assigning a role to an administrator

Assign a role to an administrator, as follows:

Steps

- 1. Select Cluster > Settings.
- 2. Select > next to Users and Roles.
- 3. Select + Add under Users.
- 4. Specify a user name, and select a role in the drop-down menu for Role.
- 5. Specify a login method and password for the user.

Changing an administrator's role

Change the role for an administrator, as follows:

Steps

- 1. Click Cluster > Settings.
- 2. Select the name of user whose role you want to change, then click the ‡ that appears next to the user name.
- 3. Click Edit.
- 4. Select a role in the drop-down menu for **Role**.

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