



# **Enable local account access**

ONTAP 9

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# Enable local account access

## Enable local account access overview

A local account is one in which the account information, public key, or security certificate resides on the storage system. You can use the `security login create` command to enable local accounts to access an admin or data SVM.

## Enable password account access

You can use the `security login create` command to enable administrator accounts to access an admin or data SVM with a password. You are prompted for the password after you enter the command.

### What you'll need

You must be a cluster administrator to perform this task.

### About this task

If you are unsure of the access control role that you want to assign to the login account, you can use the `security login modify` command to add the role later.

### Step

1. Enable local administrator accounts to access an SVM using a password:

```
security login create -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](#).

The following command enables the cluster administrator account `admin1` with the predefined `backup` role to access the admin SVM `engCluster` using a password. You are prompted for the password after you enter the command.

```
cluster1::>security login create -vserver engCluster -user-or-group-name  
admin1 -application ssh -authmethod password -role backup
```

## Enable SSH public key accounts

You can use the `security login create` command to enable administrator accounts to access an admin or data SVM with an SSH public key.

### What you'll need

You must be a cluster administrator to perform this task.

### About this task

- You must associate the public key with the account before the account can access the SVM.

#### Associating a public key with a user account

You can perform this task before or after you enable account access.

- If you are unsure of the access control role that you want to assign to the login account, you can use the `security login modify` command to add the role later.

If you want to enable SSL FIPS mode on a cluster where administrator accounts authenticate with an SSH public key before accessing SVMs, you must ensure that the host key algorithm is supported before enabling FIPS.

**Note:** Host key algorithm support has changed in ONTAP 9.11.1 and later releases.

| ONTAP release      | Supported key types                | Unsupported key types   |
|--------------------|------------------------------------|---|
| 9.11.1 and later   | ecdsa-sha2-nistp256                | rsa-sha2-512<br>rsa-sha2-256<br>ssh-ed25519<br>ssh-dss<br>ssh-rsa |
| 9.10.1 and earlier | ecdsa-sha2-nistp256<br>ssh-ed25519 | ssh-dss<br>ssh-rsa  |

Existing SSH public key accounts without the supported key algorithms must be reconfigured with a supported key type before enabling FIPS, or the administrator authentication will fail.

For more information, see [Configure network security using FIPS](#).

#### Step

1. Enable local administrator accounts to access an SVM using an SSH public key:

```
security login create -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](#).

The following command enables the SVM administrator account `svmin1` with the predefined `vsadmin-volume` role to access the `SVMengData1` using an SSH public key:

```
cluster1::>security login create -vserver engData1 -user-or-group-name
svmin1 -application ssh -authmethod publickey -role vsadmin-volume
```

#### After you finish

If you have not associated a public key with the administrator account, you must do so before the account can access the SVM.

## Enable SSH multifactor authentication (MFA)

Beginning with ONTAP 9.3, you can use the `security login create` command to enhance security by requiring that administrators log in to an admin or data SVM with both an SSH public key and a user password.

### Before you begin

You must be a cluster administrator to perform this task.

### About this task

- You must associate the public key with the account before the account can access the SVM.

#### [Associate a public key with a user account](#)

You can perform this task before or after you enable account access.

- If you are unsure of the access control role that you want to assign to the login account, you can use the `security login modify` command to add the role later.

#### [Modifying the role assigned to an administrator](#)

- The user is always authenticated with public key authentication followed by password authentication.

### Step

1. Require local administrator accounts to access an SVM using SSH MFA:

```
security login create -vserver SVM -user-or-group-name user_name -application  
ssh -authentication-method password|publickey -role admin -second  
-authentication-method password|publickey
```

The following command requires the SVM administrator account `admin2` with the predefined `admin` role to log in to the `SVMengData1` with both an SSH public key and a user password:

```
cluster-1::> security login create -vserver engData1 -user-or-group-name  
admin2 -application ssh -authentication-method publickey -role admin  
-second-authentication-method password
```

```
Please enter a password for user 'admin2':
```

```
Please enter it again:
```

```
Warning: To use public-key authentication, you must create a public key  
for user "admin2".
```

### After you finish

If you have not associated a public key with the administrator account, you must do so before the account can access the SVM.

#### [Associating a public key with a user account](#)

# Enable SSL certificate accounts

You can use the `security login create` command to enable administrator accounts to access an admin or data SVM with an SSL certificate.

## What you'll need

You must be a cluster administrator to perform this task.

## About this task

- You must install a CA-signed server digital certificate before the account can access the SVM.

[Generating and installing a CA-signed server certificate](#)

You can perform this task before or after you enable account access.

- If you are unsure of the access control role you want to assign to the login account, you can add the role later with the `security login modify` command.

[Modifying the role assigned to an administrator](#)



For cluster administrator accounts, certificate authentication is supported only with the `http` and `ontapi` applications. For SVM administrator accounts, certificate authentication is supported only with the `ontapi` application.

## Step

1. Enable local administrator accounts to access an SVM using an SSL certificate:

```
security login create -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 [ONTAP man pages by release](#).

The following command enables the SVM administrator account `svmadmin2` with the default `vsadmin` role to access the `SVMengData2` using an SSL digital certificate.

```
cluster1::>security login create -vserver engData2 -user-or-group-name  
svmadmin2 -application ontapi -authmethod cert
```

## After you finish

If you have not installed a CA-signed server digital certificate, you must do so before the account can access the SVM.

[Generating and installing a CA-signed server certificate](#)

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