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 FIPS mode on your cluster, existing SSH public key accounts without the supported key algorithms must be reconfigured with a supported key type. The accounts should be reconfigured before you enable FIPs or the administrator authentication will fail.

The following table indicates host key type algorithms that are supported for ONTAP SSH connections. These key types do not apply to configuring SSH public authentication.

ONTAP release	Key types supported in FIPS mode	Key types supported in non-FIPS mode
9.11.1 and later	ecdsa-sha2-nistp256	ecdsa-sha2-nistp256 rsa-sha2-512 rsa-sha2-256 ssh-ed25519 ssh-dss ssh-rsa
9.10.1 and earlier	ecdsa-sha2-nistp256 ssh-ed25519	ecdsa-sha2-nistp256 ssh-ed25519 ssh-dss ssh-rsa

ssh-ed25519 host key algorithm support is removed in 9.11.1

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 `svmadmin1` with the predefined `vsadmin-volume` role to access the SVM`engData1` using an SSH public key:

   ```
   cluster1::>security login create -vserver engData1 -user-or-group-name
   svmadmin1 -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.

Associating a public key with a user account

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.

Beginning with ONTAP 9.12.1, you can use Yubikey hardware authentication devices for SSH client MFA using the FIDO2 (Fast IDentity Online) or Personal Identity Verification (PIV) authentication standards.

Learn more about Multifactor Authentication in ONTAP 9 (TR-4647).

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 SVM`engData1` 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 SVM`engData2` 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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