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Create login accounts

ONTAP 9

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Create login accounts

Create login accounts overview

You can enable local or remote cluster and SVM administrator accounts. A local account is one in which the account information, public key, or security certificate resides on the storage system. AD account information is stored on a domain controller. LDAP and NIS accounts reside on LDAP and NIS servers.

Cluster and SVM administrators

A *cluster administrator* accesses the admin SVM for the cluster. The admin SVM and a cluster administrator with the reserved name admin are automatically created when the cluster is set up.

A cluster administrator with the default admin role can administer the entire cluster and its resources. The cluster administrator can create additional cluster administrators with different roles as needed.

An *SVM administrator* accesses a data SVM. The cluster administrator creates data SVMs and SVM administrators as needed.

SVM administrators are assigned the vsadmin role by default. The cluster administrator can assign different roles to SVM administrators as needed.

Naming conventions

The following generic names cannot be used for remote cluster and SVM administrator accounts:

- "adm"
- "bin"
- "cli"
- "daemon"
- "ftp"
- "games"
- "halt"
- "lp"
- "mail"
- "man"
- "naroot"
- "netapp"
- "news"
- "nobody"
- · "operator"
- "root"
- "shutdown"

- "sshd"
- "sync"
- "sys"
- "uucp"
- "www"

Merged roles

If you enable multiple remote accounts for the same user, the user is assigned the union of all roles specified for the accounts. That is, if an LDAP or NIS account is assigned the <code>vsadmin</code> role, and the AD group account for the same user is assigned the <code>vsadmin-volume</code> role, the AD user logs in with the more inclusive <code>vsadmin</code> capabilities. The roles are said to be <code>merged</code>.

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.

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.

Before you begin

You must be a cluster administrator to perform this task.

Step

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

security login create -vserver SVM_n name -user-or-group-name $user_or_group_n$ ame -application application -authmethod $authentication_m$ ethod -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 SVMengCluster 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.

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



Support for the ssh-ed25519 host key algorithm is removed beginning with ONTAP 9.11.1.

For more information, see Configure network security using FIPS.

Before you begin

You must be a cluster administrator to perform this task.

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 symadmin1 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
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 multifactor authentication (MFA) accounts

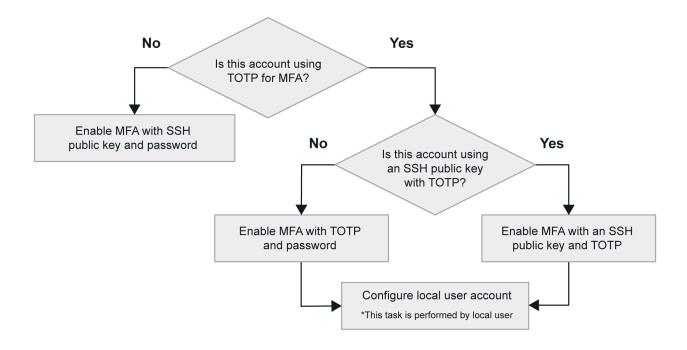
Multifactor authentication overview

Multifactor authentication (MFA) allows you to enhance security by requiring users to provide two authentication methods to log in to an admin or data SVM.

Depending upon your version of ONTAP, you can use a combination of an SSH public key, user password, and time-based one-time password (TOTP) to set up multifactor authentication.

ONTAP version	First authentication method	Second authentication method
9.13.1 and later	SSH public key	TOTP
	User password	TOTP
9.3 and later	SSH public key	User password

If MFA is configured with TOTP, the cluster administrator must first enable the local user account, then the account must be configured by the local user.



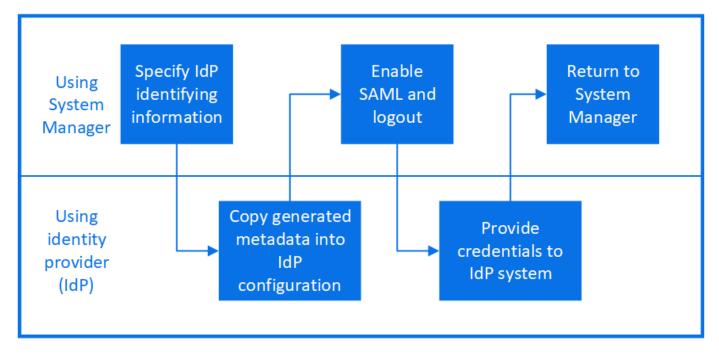
Set up multifactor authentication

Security Assertion Markup Language (SAML) authentication allows users to log in to an application by using a secure identity provider (IdP).

In System Manager, in addition to standard ONTAP authentication, SAML-based authentication is provided as an option for multifactor authentication.

Security Assertion Markup Language (SAML) is an XML-based framework for authentication and authorization between two entities: a service provider and an identity provider.

Enable SAML authentication



To enable SAML authentication, perform the following steps:

Steps

- 1. Click Cluster > Settings.
- Next to SAML Authentication, click
- 3. Ensure there is a check in the **Enable SAML Authentication** checkbox.
- 4. Enter the URL of the IdP URI (including "https://").
- 5. Modify the host system address, if needed.
- 6. Ensure the correct certificate is being used:
 - If your system was mapped with only one certificate with type "server", then that certificate is considered the default and it isn't displayed.
 - If your system was mapped with multiple certificates as type "server", then one of the certificates is displayed. To select a different certificate, click **Change**.
- 7. Click **Save**. A confirmation window displays the metadata information, which has been automatically copied to your clipboard.
- 8. Go to the IdP system you specified and copy the metadata from your clipboard to update the system metadata.
- 9. Return to the confirmation window (in System Manager) and check the checkbox I have configured the IdP with the host URI or metadata.
- 10. Click Logout to enable SAML-based authentication. The IdP system will display an authentication screen.
- 11. In the IdP system, enter your SAML-based credentials. After your credentials are verified, you will be directed to the System Manager home page.

Disable SAML authentication

To disable SAML authentication, perform the following steps:

Steps

- 1. Click Cluster > Settings.
- Under SAML Authentication, click the Enabled toggle button.
- Optional: You can also click next to SAML Authentication, and then uncheck the Enable SAML Authentication checkbox.

Enable multifactor authentication

Multifactor authentication (MFA) allows you to enhance security by requiring users to provide two authentication methods to log in to an admin or data SVM.

About this task

- You must be a cluster administrator to perform 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.

Modifying the role assigned to an administrator

• If you are using a public key for authentication, 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.

• 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.

Enable MFA with SSH public key and user password

Beginning with ONTAP 9.3, a cluster administrator can set up local user accounts to log in with MFA using an SSH public key and a user password.

1. Enable MFA on local user account with SSH public key and user password:

```
security login create -vserver <svm_name> -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".
```

Enable MFA with TOTP

Beginning with ONTAP 9.13.1, you can enhance security by requiring local users to log in to an admin or data SVM with both an SSH public key or user password and a time-based one-time password (TOTP). After the account is enabled for MFA with TOTP, the local user must log in to complete the configuration.

TOTP is a computer algorithm that uses the current time to generate a one-time password. If TOTP is used, it is always the second form of authentication after the SSH public key or the user password.

Before you begin

You must be a storage administrator to perform these tasks.

Steps

You can set up MFA to with a user password or an SSH public key as the first authentication method and TOTP as the second authentication method.

Enable MFA with user password and TOTP

1. Enable a user account for multifactor authentication with a user password and TOTP.

For new user accounts

security login create -vserver <svm_name> -user-or-group-name
<user_or_group_name> -application ssh -authentication-method
password -second-authentication-method totp -role <role> -comment
<comment>

For existing user accounts

security login modify -vserver <svm_name> -user-or-group-name
<user_or_group_name> -application ssh -authentication-method
password -second-authentication-method totp -role <role> -comment
<comment>

2. Verify that MFA with TOTP is enabled:

security login show

Enable MFA with SSH public key and TOTP

1. Enable a user account for multifactor authentication with an SSH public key and TOTP.

For new user accounts

security login create -vserver <svm_name> -user-or-group-name
<user_or_group_name> -application ssh -authentication-method
publickey -second-authentication-method totp -role <role> -comment
<comment>

For existing user accounts

security login modify -vserver <svm_name> -user-or-group-name
<user_or_group_name> -application ssh -authentication-method
publickey -second-authentication-method totp -role <role> -comment
<comment>

2. Verify that MFA with TOTP is enabled:

security login show

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

• The local user must log in to complete MFA configuration with TOTP.

Configure local user account for MFA with TOTP

Related information

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

Configure local user account for MFA with TOTP

Beginning in ONTAP 9.13.1, user accounts can be configured with multifactor authentication (MFA) using a time-based one-time password (TOTP).

Before you begin

- The storage administrator must enable MFA with TOTP as a second authentication method for your user account.
- Your primary user account authentication method should be a user password or public SSH key.
- You must configure your TOTP app to work with your smartphone and create your TOTP secret key.

TOTP is supported by various authenticator apps such as Google Authenticator.

Steps

1. Log in to your user account with your current authentication method.

Your current authentication method should be a user password or an SSH public key.

2. Create the TOTP configuration on your account:

```
security login totp create -vserver "<svm_name>" -username
"<account_username >"
```

3. Verify that the TOTP configuration is enabled on your account:

```
security login totp show -vserver "<svm_name>" -username
"<account_username>"
```

Reset TOTP secret key

To protect your account security, if your TOTP secret key is compromised or lost, you should disable it and create a new one.

Reset TOTP if your key is compromised

If your TOTP secret key is compromised, but you still have access to it, you can remove the compromised key and create a new one.

- Log in to your user account with your user password or SSH public key and your compromised TOTP secret key.
- 2. Remove the compromised TOTP secret key:

```
security login totp delete -vserver <svm_name> -username
<account_username>
```

3. Create a new TOTP secret key:

```
security login totp create -vserver <svm_name> -username
<account_username>
```

4. Verify that the TOTP configuration is enabled on your account:

```
security login totp show -vserver <svm_name> -username
<account_username>
```

Reset TOTP if your key is lost

If your TOTP secret key is lost, contact your storage administrator to have the key disabled. After your key is disabled, you can use your first authentication method to log in and configure a new TOTP.

Before you begin

The TOTP secret key must be disabled by a storage administrator.

If you do not have a storage administrator account, contact your storage administrator to have the key disabled.

Steps

- 1. After the TOTP secret is disabled by a storage administrator, use your primary authentication method to log in into your local account.
- 2. Create a new TOTP secret key:

```
security login totp create -vserver <svm_name> -username
<account_username >
```

3. Verify that the TOTP configuration is enabled on your account:

```
security login totp show -vserver <svm_name> -username
<account_username>
```

Disable TOTP secret key for local account

If a local user's time-based one-time password (TOTP) secret key is lost, the lost key must be disabled by a storage administrator before the user can create a new TOTP secret key.

About this task

This task can only be performed from a cluster administrator account.

Step

1. Disable the TOTP secret key:

```
security login totp delete -vserver "<svm_name>" -username
"<account_username>"
```

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.

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
```

For complete command syntax, see the ONTAP man pages by release.

The following command enables the SVM administrator account symadmin2 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

Enable Active Directory account access

You can use the security login create command to enable Active Directory (AD) user or group accounts to access an admin or data SVM. Any user in the AD group can access the SVM with the role that is assigned to the group.

About this task

 You must configure AD domain controller access to the cluster or SVM before the account can access the SVM.

Configuring Active Directory domain controller access

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

• Beginning with ONTAP 9.13.1, you can use an SSH public key as either your primary or secondary authentication method with an AD user password.

If you choose to use an SSH public key as your primary authentication, no AD authentication takes place.

- Beginning with ONTAP 9.11.1, you can use LDAP fast bind for nsswitch authentication if it is supported by the AD LDAP server.
- 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



AD group account access is supported only with the SSH and ontapi applications. AD groups are not supported with SSH public key authentication which is commonly used for multifactor authentication.

Before you begin

The cluster time must be synchronized to within five minutes of the time on the AD domain controller.

• You must be a cluster administrator to perform this task.

Step

1. Enable AD user or group administrator accounts to access an SVM:

For AD users:

ONTAP Version	Primary authenticatio n	Secondary authenticatio n	Command
9.13.1 and later	Public key	None	<pre>security login create -vserver <svm_name> -user-or-group-name <user_name> -application ssh -authentication-method publickey -role <role></role></user_name></svm_name></pre>
9.13.1 and later	Domain	Public key	For a new user
			<pre>security login create -vserver <svm_name> -user-or-group-name <user_name> -application ssh -authentication-method domain -second -authentication-method publickey -role <role></role></user_name></svm_name></pre>
			For an existing user
			<pre>security login modify -vserver <svm_name> -user-or-group-name <user_name> -application ssh -authentication-method domain -second -authentication-method publickey -role <role></role></user_name></svm_name></pre>
9.0 and later	Domain	None	<pre>security login create -vserver <svm_name> -user-or-group-name <user_name> -application <application> -authentication-method domain -role <role> -comment <comment> [-is-ldap-fastbind true]</comment></role></application></user_name></svm_name></pre>

For AD groups:

ONTAP version	Primary authenticatio n	Secondary authenticatio n	Command
9.0 and later	Domain	None	<pre>security login create -vserver <svm_name> -user-or-group-name <user_name> -application <application> -authentication-method domain -role <role> -comment <comment> [-is-ldap-fastbind true]</comment></role></application></user_name></svm_name></pre>

For complete command syntax, see worksheets for administrator authentication and RBAC configuration

After you finish

If you have not configured AD domain controller access to the cluster or SVM, you must do so before the account can access the SVM.

Configuring Active Directory domain controller access

Enable LDAP or NIS account access

You can use the security login create command to enable LDAP or NIS user accounts to access an admin or data SVM. If you have not configured LDAP or NIS server access to the SVM, you must do so before the account can access the SVM.

About this task

- · Group accounts are not supported.
- You must configure LDAP or NIS server access to the SVM before the account can access the SVM.

Configuring LDAP or NIS server access

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

- Beginning with ONTAP 9.4, multifactor authentication (MFA) is supported for remote users over LDAP or NIS servers.
- Beginning with ONTAP 9.11.1, you can use LDAP fast bind for nsswitch authentication if it is supported by the LDAP server.
- Because of a known LDAP issue, you should not use the ':' (colon) character in any field of LDAP user account information (for example, gecos, userPassword, and so on). Otherwise, the lookup operation will fail for that user.

Before you begin

You must be a cluster administrator to perform this task.

Steps

1. Enable LDAP or NIS user or group accounts to access an SVM:

```
security login create -vserver SVM_name -user-or-group-name user_name -application application -authmethod nsswitch -role role -comment comment -is -ns-switch-group yes|no [-is-ldap-fastbind true]
```

For complete command syntax, see the worksheet.

Creating or modifying login accounts

The following command enables the LDAP or NIS cluster administrator account guest2 with the predefined backup role to access the admin SVMengCluster.

```
cluster1::>security login create -vserver engCluster -user-or-group-name
guest2 -application ssh -authmethod nsswitch -role backup
```

2. Enable MFA login for LDAP or NIS users:

```
security login modify -user-or-group-name rem_usr1 -application ssh -authentication-method nsswitch -role admin -is-ns-switch-group no -second -authentication-method publickey
```

The authentication method can be specified as publickey and second authentication method as nsswitch.

The following example shows the MFA authentication being enabled:

```
cluster-1::*> security login modify -user-or-group-name rem_usr2
-application ssh -authentication-method nsswitch -vserver
cluster-1 -second-authentication-method publickey"
```

After you finish

If you have not configured LDAP or NIS server access to the SVM, you must do so before the account can access the SVM.

Configuring LDAP or NIS server access

Configure SAML authentication

Beginning with ONTAP 9.3, you can configure Security Assertion Markup Language (SAML) authentication for web services. When SAML authentication is configured and enabled, users are authenticated by an external Identity Provider (IdP) instead of the directory service providers such as Active Directory and LDAP.

What you'll need

- You must have configured the IdP for SAML authentication.
- · You must have the IdP URI.

About this task

SAML authentication applies only to the http and ontapi applications.

The http and ontapi applications are used by the following web services: Service Processor Infrastructure, ONTAP APIs, or System Manager.

SAML authentication is applicable only for accessing the admin SVM.

The following IdPs have been validated with System Manager:

- Active Directory Federation Services
- Cisco DUO (validated with the following ONTAP versions:)
 - 9.7P21 and later 9.7 releases (refer to the System Manager Classic documentation)
 - 9.8P17 and later 9.8 releases
 - 9.9.1P13 and later 9.9 releases
 - 9.10.1P9 and later 9.10 releases
 - 9.11.1P4 and later 9.11 releases
 - 9.12.1 and later releases
- Shibboleth

Steps

1. Create a SAML configuration so that ONTAP can access the IdP metadata:

```
security saml-sp create -idp-uri idp uri -sp-host ontap host name
```

idp uri is the FTP or HTTP address of the IdP host from where the IdP metadata can be downloaded.

ontap_host_name is the host name or IP address of the SAML service provider host, which in this case is the ONTAP system. By default, the IP address of the cluster-management LIF is used.

You can optionally provide the ONTAP server certificate information. By default, the ONTAP web server certificate information is used.

The URL to access the ONTAP host metadata is displayed.

2. From the IdP host, configure the IdP with the ONTAP host metadata.

For more information about configuring the IdP, see the IdP documentation.

3. Enable SAML configuration:

```
security saml-sp modify -is-enabled true
```

Any existing user that accesses the http or ontapi application is automatically configured for SAML authentication.

- 4. If you want to create users for the http or ontapi application after SAML is configured, specify SAML as the authentication method for the new users.
 - a. Create a login method for new users with SAML authentication: security login create -user -or-group-name user_name -application [http | ontapi] -authentication-method saml -vserver svm name

```
cluster_12::> security login create -user-or-group-name admin1
-application http -authentication-method saml -vserver cluster_12
```

b. Verify that the user entry is created:

```
security login show
```

<pre>cluster_12::> security login show</pre>						
Vserver: cluster_12						
Second						
User/Group		Authentication		Acct		
Authentication						
Name	Application	Method	Role Name	Locked		
Method						
admin	console	password	admin	no	none	
admin	http	password	admin	no	none	
admin	http	saml	admin	-	none	
admin	ontapi	password	admin	no	none	
admin	ontapi	saml	admin	-	none	
admin	admin service-processor					
		password	admin	no	none	
admin	ssh	password	admin	no	none	
admin1	http	password	backup	no	none	
<pre>**admin1 none**</pre>	http	saml	backup	_		

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