



Configuring single sign-on

StorageGRID

NetApp
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Configuring single sign-on

When single sign-on (SSO) is enabled, users can only access the Grid Manager, the Tenant Manager, the Grid Management API, or the Tenant Management API if their credentials are authorized using the SSO sign-in process implemented by your organization.

- [Confirming federated users can sign in](#)
- [Using sandbox mode](#)
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Confirming federated users can sign in

Before you enable single sign-on (SSO), you must confirm that at least one federated user can sign in to the Grid Manager and in to the Tenant Manager for any existing tenant accounts.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.
- You are using Active Directory as the federated identity source and AD FS as the identity provider.

[Requirements for using single sign-on](#)

Steps

1. If there are existing tenant accounts, confirm that none of the tenants is using its own identity source.



When you enable SSO, an identity source configured in the Tenant Manager is overridden by the identity source configured in the Grid Manager. Users belonging to the tenant's identity source will no longer be able to sign in unless they have an account with the Grid Manager identity source.

- a. Sign in to the Tenant Manager for each tenant account.
 - b. Select **Access Control > Identity Federation**.
 - c. Confirm that the **Enable Identity Federation** check box is not selected.
 - d. If it is, confirm that any federated groups that might be in use for this tenant account are no longer required, unselect the check box, and click **Save**.
2. Confirm that a federated user can access the Grid Manager:
 - a. From Grid Manager, select **Configuration > Access Control > Admin Groups**.

- b. Ensure that at least one federated group has been imported from the Active Directory identity source and that it has been assigned the Root Access permission.
 - c. Sign out.
 - d. Confirm you can sign back in to the Grid Manager as a user in the federated group.
3. If there are existing tenant accounts, confirm that a federated user who has Root Access permission can sign in:
 - a. From the Grid Manager, select **Tenants**.
 - b. Select the tenant account, and click **Edit Account**.
 - c. If the **Uses Own Identity Source** check box is selected, uncheck the box and click **Save**.

Edit Tenant Account

Tenant Details

Display Name

S3 tenant account

Uses Own Identity Source

☐

Allow Platform Services

☒

Storage Quota (optional)

GB

▼

Cancel

Save

The Tenant Accounts page appears.

- d. Select the tenant account, click **Sign In**, and sign in to the tenant account as the local root user.
 - e. From the Tenant Manager, click **Access Control > Groups**.
 - f. Ensure that at least one federated group from the Grid Manager has been assigned the Root Access permission for this tenant.
 - g. Sign out.
 - h. Confirm you can sign back in to the tenant as a user in the federated group.

Related information

[Requirements for using single sign-on](#)

[Managing admin groups](#)

[Use a tenant account](#)

Using sandbox mode

You can use sandbox mode to configure and test Active Directory Federation Services (AD FS) relying party trusts before you enforce single sign-on (SSO) for StorageGRID users. After SSO is enabled, you can reenable sandbox mode to configure or test new

and existing relying party trusts. Reenabling sandbox mode temporarily disables SSO for StorageGRID users.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.

About this task

When SSO is enabled and a user attempts to sign in to an Admin Node, StorageGRID sends an authentication request to AD FS. In turn, AD FS sends an authentication response back to StorageGRID, indicating whether the authorization request was successful. For successful requests, the response includes a universally unique identifier (UUID) for the user.

To allow StorageGRID (the service provider) and AD FS (the identity provider) to communicate securely about user authentication requests, you must configure certain settings in StorageGRID. Next, you must use AD FS to create a relying party trust for every Admin Node. Finally, you must return to StorageGRID to enable SSO.

Sandbox mode makes it easy to perform this back-and-forth configuration and to test all of your settings before you enable SSO.



Using sandbox mode is highly recommended, but not strictly required. If you are prepared to create AD FS relying party trusts immediately after you configure SSO in StorageGRID, and you do not need to test the SSO and single logout (SLO) processes for each Admin Node, click **Enabled**, enter the StorageGRID settings, create a relying party trust for each Admin Node in AD FS, and then click **Save** to enable SSO.

Steps

1. Select **Configuration > Access Control > Single Sign-on**.

The Single Sign-on page appears, with the **Disabled** option selected.

Single Sign-on

You can enable single sign-on (SSO) if you want an external identity provider (IdP) to authorize all user access to StorageGRID. To start, enable [identity federation](#) and confirm that at least one federated user has Root Access permission to the Grid Manager and to the Tenant Manager for any existing tenant accounts. Next, select Sandbox Mode to configure, save, and then test your SSO settings. After verifying the connections, select Enabled and click Save to start using SSO.

SSO Status ☒ Disabled ☐ Sandbox Mode ☐ Enabled

Save



If the SSO Status options do not appear, confirm you have configured Active Directory as the federated identity source. See “Requirements for using single sign-on.”

2. Select the **Sandbox Mode** option.

The Identity Provider and Relying Party settings appear. In the Identity Provider section, the **Service Type** field is read only. It shows the type of identity federation service you are using (for example, Active Directory).

3. In the Identity Provider section:

- a. Enter the Federation Service name, exactly as it appears in AD FS.



To locate the Federation Service Name, go to Windows Server Manager. Select **Tools > AD FS Management**. From the Action menu, select **Edit Federation Service Properties**. The Federation Service Name is shown in the second field.

- b. Specify whether you want to use Transport Layer Security (TLS) to secure the connection when the identity provider sends SSO configuration information in response to StorageGRID requests.

- **Use operating system CA certificate:** Use the default CA certificate installed on the operating system to secure the connection.
- **Use custom CA certificate:** Use a custom CA certificate to secure the connection.

If you select this setting, copy and paste the certificate in the **CA Certificate** text box.

- **Do not use TLS:** Do not use a TLS certificate to secure the connection.

4. In the Relying Party section, specify the relying party identifier you will use for StorageGRID Admin Nodes when you configure relying party trusts.

- For example, if your grid has only one Admin Node and you do not anticipate adding more Admin Nodes in the future, enter `SG` or `StorageGRID`.
- If your grid includes more than one Admin Node, include the string `[HOSTNAME]` in the identifier. For example, `SG-[HOSTNAME]`. This generates a table that includes a relying party identifier for each Admin Node, based on the node's hostname.

NOTE: You must create a relying party trust for each Admin Node in your StorageGRID system. Having a relying party trust for each Admin Node ensures that users can securely sign in to and out of any Admin Node.

5. Click **Save**.

- A green check mark appears on the **Save** button for a few seconds.



- The Sandbox mode confirmation notice appears, confirming that sandbox mode is now enabled. You can use this mode while you use AD FS to configure a relying party trust for each Admin Node and test the single sign-in (SSO) and single logout (SLO) processes.

Single Sign-on

You can enable single sign-on (SSO) if you want an external identity provider (IdP) to authorize all user access to StorageGRID. To start, enable [identity federation](#) and confirm that at least one federated user has Root Access permission to the Grid Manager and to the Tenant Manager for any existing tenant accounts. Next, select Sandbox Mode to configure, save, and then test your SSO settings. After verifying the connections, select Enabled and click Save to start using SSO.

SSO Status ☐ Disabled ☒ Sandbox Mode ☐ Enabled

Sandbox mode

Sandbox mode is currently enabled. Use this mode to configure relying party trusts and to confirm that single sign-on (SSO) and single logout (SLO) are correctly configured for the StorageGRID system.

1. Use Active Directory Federation Services (AD FS) to create relying party trusts for StorageGRID. Create one trust for each Admin Node, using the relying party identifier(s) shown below.
2. Go to your identity provider's sign-on page: <https://ad2016.saml.sgws/adfs/ls/idpinitiatedsignon.htm>
3. From this page, sign in to each StorageGRID relying party trust. If the SSO operation is successful, StorageGRID displays a page with a success message. Otherwise, an error message is displayed.

When you have confirmed SSO for each of the relying party trusts and you are ready to enforce the use of SSO for StorageGRID, change the SSO Status to Enabled, and click Save.

Related information

[Requirements for using single sign-on](#)

Creating relying party trusts in AD FS

You must use Active Directory Federation Services (AD FS) to create a relying party trust for each Admin Node in your system. You can create relying party trusts using PowerShell commands, by importing SAML metadata from StorageGRID, or by entering the data manually.

Creating a relying party trust using Windows PowerShell

You can use Windows PowerShell to quickly create one or more relying party trusts.

What you'll need

- You have configured SSO in StorageGRID, and you know the fully qualified domain name (or the IP address) and the relying party identifier for each Admin Node in your system.



You must create a relying party trust for each Admin Node in your StorageGRID system. Having a relying party trust for each Admin Node ensures that users can securely sign in to and out of any Admin Node.

- You have experience creating relying party trusts in AD FS, or you have access to the Microsoft AD FS documentation.
- You are using the AD FS Management snap-in, and you belong to the Administrators group.

About this task

These instructions apply to AD FS 4.0, which is included with Windows Server 2016. If you are using AD FS

3.0, which is included with Windows 2012 R2, you will notice slight differences in the procedure. See the Microsoft AD FS documentation if you have questions.

Steps

1. From the Windows start menu, right-click the PowerShell icon, and select **Run as Administrator**.
2. At the PowerShell command prompt, enter the following command:

```
Add-AdfsRelyingPartyTrust -Name "Admin_Node_Identifier" -MetadataURL  
"https://Admin_Node_FQDN/api/saml-metadata"
```

- For *Admin_Node_Identifier*, enter the Relying Party Identifier for the Admin Node, exactly as it appears on the Single Sign-on page. For example, SG-DC1-ADM1.
 - For *Admin_Node_FQDN*, enter the fully qualified domain name for the same Admin Node. (If necessary, you can use the node's IP address instead. However, if you enter an IP address here, be aware that you must update or recreate this relying party trust if that IP address ever changes.)
3. From Windows Server Manager, select **Tools > AD FS Management**.

The AD FS management tool appears.

4. Select **AD FS > Relying Party Trusts**.

The list of relying party trusts appears.

5. Add an Access Control Policy to the newly created relying party trust:
 - a. Locate the relying party trust you just created.
 - b. Right-click the trust, and select **Edit Access Control Policy**.
 - c. Select an Access Control Policy.
 - d. Click **Apply**, and click **OK**
6. Add a Claim Issuance Policy to the newly created Relying Party Trust:
 - a. Locate the relying party trust you just created.
 - b. Right-click the trust, and select **Edit claim issuance policy**.
 - c. Click **Add rule**.
 - d. On the Select Rule Template page, select **Send LDAP Attributes as Claims** from the list, and click **Next**.
 - e. On the Configure Rule page, enter a display name for this rule.

For example, **ObjectGUID to Name ID**.

- f. For the Attribute Store, select **Active Directory**.
 - g. In the LDAP Attribute column of the Mapping table, type **objectGUID**.
 - h. In the Outgoing Claim Type column of the Mapping table, select **Name ID** from the drop-down list.
 - i. Click **Finish**, and click **OK**.
7. Confirm that the metadata was imported successfully.
 - a. Right-click the relying party trust to open its properties.
 - b. Confirm that the fields on the **Endpoints**, **Identifiers**, and **Signature** tabs are populated.

If the metadata is missing, confirm that the Federation metadata address is correct, or simply enter the values manually.

8. Repeat these steps to configure a relying party trust for all of the Admin Nodes in your StorageGRID system.
9. When you are done, return to StorageGRID and [test all relying party trusts](#) to confirm they are configured correctly.

Creating a relying party trust by importing federation metadata

You can import the values for each relying party trust by accessing the SAML metadata for each Admin Node.

What you'll need

- You have configured SSO in StorageGRID, and you know the fully qualified domain name (or the IP address) and the relying party identifier for each Admin Node in your system.



You must create a relying party trust for each Admin Node in your StorageGRID system. Having a relying party trust for each Admin Node ensures that users can securely sign in to and out of any Admin Node.

- You have experience creating relying party trusts in AD FS, or you have access to the Microsoft AD FS documentation.
- You are using the AD FS Management snap-in, and you belong to the Administrators group.

About this task

These instructions apply to AD FS 4.0, which is included with Windows Server 2016. If you are using AD FS 3.0, which is included with Windows 2012 R2, you will notice slight differences in the procedure. See the Microsoft AD FS documentation if you have questions.

Steps

1. In Windows Server Manager, click **Tools**, and then select **AD FS Management**.
2. Under Actions, click **Add Relying Party Trust**.
3. On the Welcome page, choose **Claims aware**, and click **Start**.
4. Select **Import data about the relying party published online or on a local network**.
5. In **Federation metadata address (host name or URL)**, type the location of the SAML metadata for this Admin Node:

```
https://Admin_Node_FQDN/api/saml-metadata
```

For *Admin_Node_FQDN*, enter the fully qualified domain name for the same Admin Node. (If necessary, you can use the node's IP address instead. However, if you enter an IP address here, be aware that you must update or recreate this relying party trust if that IP address ever changes.)

6. Complete the Relying Party Trust wizard, save the relying party trust, and close the wizard.



When entering the display name, use the Relying Party Identifier for the Admin Node, exactly as it appears on the Single Sign-on page in the Grid Manager. For example, SG-DC1-ADM1.

7. Add a claim rule:

- a. Right-click the trust, and select **Edit claim issuance policy**.
- b. Click **Add rule**:
- c. On the Select Rule Template page, select **Send LDAP Attributes as Claims** from the list, and click **Next**.
- d. On the Configure Rule page, enter a display name for this rule.

For example, **ObjectGUID to Name ID**.

- e. For the Attribute Store, select **Active Directory**.
 - f. In the LDAP Attribute column of the Mapping table, type **objectGUID**.
 - g. In the Outgoing Claim Type column of the Mapping table, select **Name ID** from the drop-down list.
 - h. Click **Finish**, and click **OK**.
8. Confirm that the metadata was imported successfully.
 - a. Right-click the relying party trust to open its properties.
 - b. Confirm that the fields on the **Endpoints**, **Identifiers**, and **Signature** tabs are populated.

If the metadata is missing, confirm that the Federation metadata address is correct, or simply enter the values manually.

9. Repeat these steps to configure a relying party trust for all of the Admin Nodes in your StorageGRID system.
10. When you are done, return to StorageGRID and [test all relying party trusts](#) to confirm they are configured correctly.

Creating a relying party trust manually

If you choose not to import the data for the relying party trusts, you can enter the values manually.

What you'll need

- You have configured SSO in StorageGRID, and you know the fully qualified domain name (or the IP address) and the relying party identifier for each Admin Node in your system.



You must create a relying party trust for each Admin Node in your StorageGRID system. Having a relying party trust for each Admin Node ensures that users can securely sign in to and out of any Admin Node.

- You have the custom certificate that was uploaded for the StorageGRID management interface, or you know how to log in to an Admin Node from the command shell.
- You have experience creating relying party trusts in AD FS, or you have access to the Microsoft AD FS documentation.
- You are using the AD FS Management snap-in, and you belong to the Administrators group.

About this task

These instructions apply to AD FS 4.0, which is included with Windows Server 2016. If you are using AD FS 3.0, which is included with Windows 2012 R2, you will notice slight differences in the procedure. See the Microsoft AD FS documentation if you have questions.

Steps

1. In Windows Server Manager, click **Tools**, and then select **AD FS Management**.
2. Under Actions, click **Add Relying Party Trust**.
3. On the Welcome page, choose **Claims aware**, and click **Start**.
4. Select **Enter data about the relying party manually**, and click **Next**.
5. Complete the Relying Party Trust wizard:

- a. Enter a display name for this Admin Node.

For consistency, use the Relying Party Identifier for the Admin Node, exactly as it appears on the Single Sign-on page in the Grid Manager. For example, SG-DC1-ADM1.

- b. Skip the step to configure an optional token encryption certificate.
- c. On the Configure URL page, select the **Enable support for the SAML 2.0 WebSSO protocol** check box.
- d. Type the SAML service endpoint URL for the Admin Node:

`https://Admin_Node_FQDN/api/saml-response`

For *Admin_Node_FQDN*, enter the fully qualified domain name for the Admin Node. (If necessary, you can use the node's IP address instead. However, if you enter an IP address here, be aware that you must update or recreate this relying party trust if that IP address ever changes.)

- e. On the Configure Identifiers page, specify the Relying Party Identifier for the same Admin Node:

Admin_Node_Identifier

For *Admin_Node_Identifier*, enter the Relying Party Identifier for the Admin Node, exactly as it appears on the Single Sign-on page. For example, SG-DC1-ADM1.

- f. Review the settings, save the relying party trust, and close the wizard.

The Edit Claim Issuance Policy dialog box appears.



If the dialog box does not appear, right-click the trust, and select **Edit claim issuance policy**.

6. To start the Claim Rule wizard, click **Add rule**:
 - a. On the Select Rule Template page, select **Send LDAP Attributes as Claims** from the list, and click **Next**.
 - b. On the Configure Rule page, enter a display name for this rule.

For example, **ObjectGUID to Name ID**.
 - c. For the Attribute Store, select **Active Directory**.
 - d. In the LDAP Attribute column of the Mapping table, type **objectGUID**.
 - e. In the Outgoing Claim Type column of the Mapping table, select **Name ID** from the drop-down list.
 - f. Click **Finish**, and click **OK**.
7. Right-click the relying party trust to open its properties.

8. On the **Endpoints** tab, configure the endpoint for single logout (SLO):
 - a. Click **Add SAML**.
 - b. Select **Endpoint Type > SAML Logout**.
 - c. Select **Binding > Redirect**.
 - d. In the **Trusted URL** field, enter the URL used for single logout (SLO) from this Admin Node:

`https://Admin_Node_FQDN/api/saml-logout`

For *Admin_Node_FQDN*, enter the Admin Node's fully qualified domain name. (If necessary, you can use the node's IP address instead. However, if you enter an IP address here, be aware that you must update or recreate this relying party trust if that IP address ever changes.)

- e. Click **OK**.
9. On the **Signature** tab, specify the signature certificate for this relying party trust:
 - a. Add the custom certificate:
 - If you have the custom management certificate you uploaded to StorageGRID, select that certificate.
 - If you do not have the custom certificate, log in to the Admin Node, go the `/var/local/mgmt-api` directory of the Admin Node, and add the `custom-server.crt` certificate file.
 - Note:** Using the Admin Node's default certificate (`server.crt`) is not recommended. If the Admin Node fails, the default certificate will be regenerated when you recover the node, and you will need to update the relying party trust.
 - b. Click **Apply**, and click **OK**.

The Relying Party properties are saved and closed.

10. Repeat these steps to configure a relying party trust for all of the Admin Nodes in your StorageGRID system.
11. When you are done, return to StorageGRID and [test all relying party trusts](#) to confirm they are configured correctly.

Testing relying party trusts

Before you enforce the use of single sign-on (SSO) for StorageGRID, confirm that single sign-on and single logout (SLO) are correctly configured. If you created a relying party trust for each Admin Node, confirm you can use SSO and SLO for each Admin Node.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.
- You have configured one or more relying party trusts in AD FS.

Steps

1. Select **Configuration > Access Control > Single Sign-on**.

The Single Sign-on page appears, with the **Sandbox Mode** option selected.

2. In the instructions for sandbox mode, locate the link to your identity provider's sign-on page.

The URL is derived from the value you entered in the **Federated Service Name** field.

Sandbox mode

Sandbox mode is currently enabled. Use this mode to configure relying party trusts and to confirm that single sign-on (SSO) and single logout (SLO) are correctly configured for the StorageGRID system.

1. Use Active Directory Federation Services (AD FS) to create relying party trusts for StorageGRID. Create one trust for each Admin Node, using the relying party identifier(s) shown below.
2. Go to your identity provider's sign-on page: <https://ad2016.saml.sgws/adfs/ls/idpinitiatedsignon.htm>
3. From this page, sign in to each StorageGRID relying party trust. If the SSO operation is successful, StorageGRID displays a page with a success message. Otherwise, an error message is displayed.

When you have confirmed SSO for each of the relying party trusts and you are ready to enforce the use of SSO for StorageGRID, change the SSO Status to Enabled, and click Save.

3. Click the link, or copy and paste the URL into a browser, to access your identity provider's sign-on page.
4. To confirm you can use SSO to sign in to StorageGRID, select **Sign in to one of the following sites**, select the relying party identifier for your primary Admin Node, and click **Sign in**.

You are not signed in.

☐ Sign in to this site.

☒ Sign in to one of the following sites:

SG-DC1-ADM1

Sign in

You are prompted to enter your username and password.

5. Enter your federated username and password.
 - If the SSO sign-in and logout operations are successful, a success message appears.

✓ Single sign-on authentication and logout test completed successfully.

- If the SSO operation is unsuccessful, an error message appears. Fix the issue, clear the browser's cookies, and try again.
6. Repeat the previous steps to confirm you can sign in to any other Admin Nodes.

If all SSO sign-in and logout operations are successful, you are ready to enable SSO.

Enabling single sign-on

After using sandbox mode to test all of your StorageGRID relying party trusts, you are ready to enable single sign-on (SSO).

What you'll need

- You must have imported at least one federated group from the identity source and assigned Root Access management permissions to the group. You must confirm that at least one federated user has Root Access permission to the Grid Manager and to the Tenant Manager for any existing tenant accounts.
- You must have tested all relying party trusts using sandbox mode.

Steps

1. Select **Configuration > Access Control > Single Sign-on**.

The Single Sign-on page appears with **Sandbox Mode** selected.

2. Change the SSO Status to **Enabled**.
3. Click **Save**.

A warning message appears.

Warning

Enable single sign-on

After you enable SSO, no local users—including the root user—will be able to sign in to the Grid Manager, the Tenant Manager, the Grid Management API, or the Tenant Management API.

Before proceeding, confirm the following:

- You have imported at least one federated group from the identity source and assigned Root Access management permissions to the group. You must confirm that at least one federated user has Root Access permission to the Grid Manager and to the Tenant Manager for any existing tenant accounts.
- You have tested all relying party trusts using sandbox mode.

Are you sure you want to enable single sign-on?

Cancel

OK

4. Review the warning, and click **OK**.

Single sign-on is now enabled.



All users must use SSO to access the Grid Manager, the Tenant Manager, the Grid Management API, and the Tenant Management API. Local users can no longer access StorageGRID.

Disabling single sign-on

You can disable single sign-on (SSO) if you no longer want to use this functionality. You must disable single sign-on before you can disable identity federation.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.

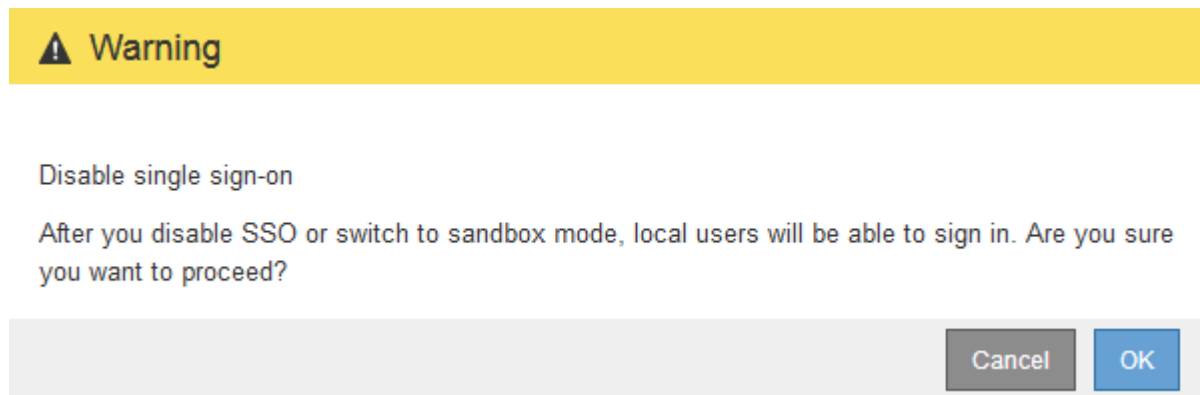
Steps

1. Select **Configuration > Access Control > Single Sign-on**.

The Single Sign-on page appears.

2. Select the **Disabled** option.
3. Click **Save**.

A warning message appears indicating that local users will now be able to sign in.



4. Click **OK**.

The next time you sign in to StorageGRID, the StorageGRID Sign in page appears and you must enter the username and password for a local or federated StorageGRID user.

Temporarily disabling and reenabling single sign-on for one Admin Node

You might not be able to sign in to the Grid Manager if the single sign-on (SSO) system goes down. In this case, you can temporarily disable and reenable SSO for one Admin Node. To disable and then reenable SSO, you must access the node's command shell.

What you'll need

- You must have specific access permissions.
- You must have the `Passwords.txt` file.
- You must know the password for the local root user.

About this task

After you disable SSO for one Admin Node, you can sign in to the Grid Manager as the local root user. To secure your StorageGRID system, you must use the node's command shell to reenables SSO on the Admin Node as soon as you sign out.



Disabling SSO for one Admin Node does not affect the SSO settings for any other Admin Nodes in the grid. The **Enable SSO** check box on the Single Sign-on page in the Grid Manager remains selected, and all existing SSO settings are maintained unless you update them.

Steps

1. Log in to an Admin Node:

- a. Enter the following command: `ssh admin@Admin_Node_IP`
- b. Enter the password listed in the `Passwords.txt` file.
- c. Enter the following command to switch to root: `su -`
- d. Enter the password listed in the `Passwords.txt` file.

When you are logged in as root, the prompt changes from `$` to `#`.

2. Run the following command: `disable-saml`

A message indicates that the command applies to this Admin Node only.

3. Confirm that you want to disable SSO.

A message indicates that single sign-on is disabled on the node.

4. From a web browser, access the Grid Manager on the same Admin Node.

The Grid Manager sign-in page is now displayed because SSO has been disabled.

5. Sign in with the username root and the local root user's password.

6. If you disabled SSO temporarily because you needed to correct the SSO configuration:

- a. Select **Configuration > Access Control > Single Sign-on**.
- b. Change the incorrect or out-of-date SSO settings.
- c. Click **Save**.

Clicking **Save** from the Single Sign-on page automatically reenables SSO for the entire grid.

7. If you disabled SSO temporarily because you needed to access the Grid Manager for some other reason:

- a. Perform whatever task or tasks you need to perform.
- b. Click **Sign Out**, and close the Grid Manager.
- c. Reenable SSO on the Admin Node. You can perform either of the following steps:
 - Run the following command: `enable-saml`

A message indicates that the command applies to this Admin Node only.

Confirm that you want to enable SSO.

A message indicates that single sign-on is enabled on the node.

- Reboot the grid node: `reboot`

8. From a web browser, access the Grid Manager from the same Admin Node.
9. Confirm that the StorageGRID Sign in page appears and that you must enter your SSO credentials to access the Grid Manager.

Related information

[Configuring single sign-on](#)

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