



Enabling encrypted assertions

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Enabling encrypted assertions

You can improve your GitHub Enterprise Server instance's security with SAML single sign-on (SSO) by encrypting the messages that your SAML identity provider (IdP) sends.

Who can use this feature

Site administrators can configure encrypted assertions for a GitHub Enterprise Server instance.

About encrypted assertions &

If your IdP support encryption of assertions, you can configure encrypted assertions on GitHub Enterprise Server for increased security during the authentication process.

Prerequisites @

To enable encrypted assertions for authentication to GitHub Enterprise Server, you must configure SAML authentication, and your IdP must support encrypted assertions.

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To enable encrypted assertions, you must provide your GitHub Enterprise Server instance's public certificate to your IdP, and configure encryption settings that match your IdP.

Note: GitHub strongly recommends that you verify any new configuration for authentication in a staging environment. An incorrect configuration could result in downtime for your GitHub Enterprise Server instance. For more information, see "Setting up a staging instance."

- 1 Optionally, enable SAML debugging. SAML debugging records verbose entries in GitHub Enterprise Server's authentication log, and may help you troubleshoot failed authentication attempts. For more information, see "Troubleshooting SAML authentication."
- 2 From an administrative account on GitHub Enterprise Server, in the upper-right corner of any page, click \mathcal{Q} .
- 3 If you're not already on the "Site admin" page, in the upper-left corner, click **Site** admin.
- 4 In the "\$\mathrice{g}\$ Site admin" sidebar, click **Management Console**.

- 5 In the "Settings" sidebar, click **Authentication**.
- 6 Select Require encrypted assertions.
- 7 To the right of "Encryption Certificate", to save a copy of your GitHub Enterprise Server instance's public certificate on your local machine, click **Download**.
- 8 Sign into your SAML IdP as an administrator.
- In the application for your GitHub Enterprise Server instance, enable encrypted assertions.
 - Note the encryption method and key transport method.
 - Provide the public certificate you downloaded in step 7.
- Return to the management console on your GitHub Enterprise Server instance.
- 1 To the right of "Encryption Method", select the encryption method for your IdP from step 9.
- To the right of "Key Transport Method", select the key transport method for your IdP from step 9.
- B Click Save settings.
- 14 Wait for the configuration run to complete.

If you enabled SAML debugging to test authentication with encrypted assertions, disable SAML debugging when you're done testing. For more information, see "<u>Troubleshooting</u> SAML authentication."

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