

Configure SAML single sign-on with Google

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You can configure your ExtraHop Command and Discover appliances to enable users to log into the appliance through the Google identity management service.


Before you begin

- You should be familiar with administrating Google Admin.
- You should be familiar with administrating ExtraHop appliances.

These procedures require you to copy and paste information between the ExtraHop Admin UI and the Google Admin UI, so it is helpful to have each UI open side-by-side.


Enable SAML on the ExtraHop appliance

1. Log into the Admin UI on the Discover or Command appliance.
2. In the Access Settings section, click **Remote Authentication**.
3. From the Remote authentication method drop-down list, select **SAML**.




 **Important:** If you are migrating from an existing remote authentication provider (such as LDAP), contact your ExtraHop account team for assistance in transferring your existing appliance customizations.

4. Click **Continue**.
5. Click **View SP Metadata**.
6. Copy the ACS URL and Entity ID to a text file. You will paste this information into the Google configuration in a later procedure.

Add user custom attributes

1. Log into the Google Admin console.
2. Click **Users**.
3. Click the Manage custom attributes icon .
4. Click **Add Custom Attribute**.
5. In the Category field, type `ExtraHop`.
6. Optional: Type a description in the Description field.
7. In the Custom fields section, enter the following information.
 - a) In the Name field, type `writelevel`.
 - b) From the Info Type drop-down list, select **Text**.
 - c) From the Visibility drop-down list, select **Visible to domain**.
 - d) From the No. of values drop-down list, select **Single Value**.
8. Optional: If you have connected Trace appliances, configure a second custom field with the following information.
 - a) In the Name field, type `packetslevel`.
 - b) From the Info Type drop-down list, select **Text**.
 - c) From the Visibility drop-down list, select **Visible to domain**.
 - d) From the No. of values drop-down list, select **Single Value**.
9. Click **Add**.

Add identity provider information from Google to the ExtraHop appliance

1. In the Google Admin console, click the Main menu icon  and select **Apps > SAML apps**.
2. Click the Enable SSO for a SAML application icon .
3. Click **SETUP MY OWN CUSTOM APP**.
4. On the Google IdP Information screen, click the **Download** button to download the certificate (`GoogleIDPCertificate.pem`).
5. Return to the Admin UI on the ExtraHop appliance.
6. Click **Add Identity Provider**.
7. Type a unique name in the Provider Name field. This name appears on the ExtraHop appliance login page.
8. From the Google IdP Information screen, copy the SSO URL and paste it into the SSO URL field on the ExtraHop appliance.
9. From the Google IdP Information screen, copy the Entity ID and paste into the Entity ID field on the ExtraHop appliance.
10. Open the `GoogleIDPCertificate` in a text editor, copy the contents and paste into the Public Certificate field on the ExtraHop appliance.
11. Choose how you would like to provision users from one of the following options.
 - Select **Auto-provision users** to create a new remote SAML user account on the ExtraHop appliance when the user first logs into the appliance.
 - Clear the **Auto-provision users** checkbox and manually configure new remote users through the ExtraHop Admin UI or REST API. Access and privilege levels are determined by the user configuration in Google.
12. The **Enable this identity provider** option is selected by default and allows users to log into the appliance. To prevent users from logging in, clear the checkbox.
13. Click **Save**.
14. [Save the Running Config](#) .

Add ExtraHop service provider information to Google

1. Return to the Google Admin console and click **Next** on the Google Idp Information page to continue to step 3 of 5.

Step 2 of 5



Google IdP Information

Choose from either option to setup Google as your identity provider. Please add details in the SSO config for the service provider. [Learn more](#)

Option 1

SSO URL `https://accounts.google.com/o/saml2/idp?idpid=C01ntthr1`

Entity ID `https://accounts.google.com/o/saml2?idpid=C01ntthr1`

Certificate **Google_2020-10-31-123717_SAML2.0**

Expires Oct 31, 2020

DOWNLOAD

OR

Option 2

IDP metadata

DOWNLOAD

PREVIOUS

CANCEL

NEXT

2. Type a unique name in the Application Name field to identify the ExtraHop appliance. Each ExtraHop appliance that you create a SAML application for needs a unique name.
3. Optional: Type a description for this application or upload a custom logo.
4. Click **Next**.
5. Copy the Assertion Consumer Service (ACS) URL from the ExtraHop appliance and paste into the ACS URL field in Google Admin.



Note: You might need to manually edit the ACS URL if the URL contains an unreachable hostname, such as the default appliance hostname "extrahop". We recommend that you specify the fully qualified domain name for the ExtraHop appliance in the URL.

6. Copy the SP Entity ID from the ExtraHop appliance and paste into the Entity ID field in Google Admin.
7. Select the **Signed Response** checkbox.
8. In the Name ID section, leave the default **Basic Information** and **Primary Email** settings unchanged.
9. From the Name ID Format drop-down list, select **PERSISTENT**.
10. Click **Next**.
11. On the Attribute Mapping screen, click **ADD NEW MAPPING**.
12. Add the following attributes exactly as shown. The first four attributes are required. The `packetslevel` attribute is optional and is only required if you have connected Trace appliances. If you have a Trace appliance and you do not configure the `packetslevel` attribute, users will be unable to view or download packet captures in the ExtraHop Web UI.

Application Attribute	Category	User Field
urn:oid:0.9.2342.19200300	Basic Information	Primary Email
urn:oid:2.5.4.4	Basic Information	Last Name
urn:oid:2.5.4.42	Basic Information	First Name
urn:extrahop:saml:2.0:writelevel	ExtraHop	writelevel
urn:extrahop:saml:2.0:packetslevel	ExtraHop	packetslevel

13. Click **Finish** and then click **OK**.
14. Click **Edit Service**.
15. Select **On for everyone**, and then click **Save**.

Assign user privileges

1. Click **Users** to return to the table of all users in your organizational units.
2. Click the name of the user you want to allow to log into the ExtraHop appliance.
3. In the User information section, click **User details**.
4. In the ExtraHop section, click **writelevel** and type one of the following privilege levels.
 - unlimited
 - full_write
 - limited_write
 - personal_write
 - full_readonly
 - restricted_readonly

For information about user privileges, see [Users and user groups](#).

5. Optional: If you added the `packetslevel` attribute above, click **packetslevel** and type one of the following privileges.
 - full
 - full_with_write

ExtraHop

writelevel

full_write

packetslevel

full

6. Click **Save**.

Log into the ExtraHop appliance

1. Open a new browser window and enter the URL of the ExtraHop Web UI.
2. Click **Log in with** *<provider name>*.
3. Sign into your provider with your email address and password. You are automatically directed to the ExtraHop Dashboards page.