Configure SAML single sign-on with Okta

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You can configure your ExtraHop system to enable users to log in to the system through the Okta identity management service.

Before you begin

- You should be familiar with administering Okta. These procedures are based on the Okta Classic UI. If you are configuring Okta through the Developer Console, the procedure might be slightly different.
- You should be familiar with administering ExtraHop systems.

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

Enable SAML on the ExtraHop system

- 1. Log in to the Administration settings on the ExtraHop system through https://<extrahophostname-or-IP-address>/admin.
- 2. In the Access Settings section, click **Remote Authentication**.
- 3. From the Remote authentication method drop-down list, select SAML.
- 4. Click Continue.
- 5. Click **View SP Metadata**. You will need to copy the ACS URL and Entity ID to paste into the Okta configuration in the next procedure.

Configure SAML settings in Okta

This procedure requires you to copy and paste information between the ExtraHop Administration settings and the Okta Classic UI, so it is helpful to have each UI open side-by-side.

- 1. Log in to Okta.
- 2. In the upper-right corner of the page, change the view from **Developer Console** to **Classic UI**.



- 3. From the top menu, click **Applications**.
- 4. Click Add Application.
- 5. Click Create New App.
- 6. From the Platform drop-down list, select **Web**.
- 7. For the Sign on method, select SAML 2.0.
- 8. Click Create.
- 9. In the General Settings section, type a unique name in the App name field to identify the ExtraHop system.
- 10. Optional: Configure the App logo and App visibility fields as required for your environment.
- 11. Click Next.
- 12. In the SAML Settings sections, paste the Assertion Consumer Service (ACS) URL from the ExtraHop system into the Single sign on URL field in Okta.



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

- 13. Paste the SP Entity ID from the ExtraHop system into the Audience URI (SP Entity ID) field in Okta.
- 14. From the Name ID format drop-down list, select Persistent.
- 15. From the Application username drop-down list, select a username format.
- 16. In the Attribute Statements section, add the following attributes. These attributes identify the user throughout the ExtraHop system.

Name	Name format	Value
urn:oid:0.9.2342.19200	300 URØReferænce	user.email
urn:oid:2.5.4.4	URI Reference	user.lastName
urn:oid:2.5.4.42	URI Reference	user.firstName

17. In the Group Attribute Statement section, type a string in the Name field and configure a filter. You will specify the group attribute name when you configure user privilege attributes on the ExtraHop system. The following figure shows a sample configuration.

GENERAL					
Single sign on URL 👔		https://eda.example.co	m/sso/saml/acs/		<u>+</u>
		Use this for Recipien	t URL and Destination	URL	
		Allow this app to req	uest other SSO URLs		
Audience URI (SP Entity I	D) 👔	urn:extrahop:saml:d524	130f4e8af43b6843990	02b913a8cec	
Default RelayState 👔					
		lf no value is set, a blank	RelayState is sent		
Name ID format 🔞		Persistent	*		
Application username 👩		Email			
		Create and update	*	Show Advanced S	
ATTRIBUTE STATEMENT	es (optional		*	Show Advanced S LEARN	
ATTRIBUTE STATEMENT	TS (OPTIONAL Name form	.) at (optional) Value	•		
ATTRIBUTE STATEMENT	TS (OPTIONAL Name form	.) hat (optional) Value ence v user.email		LEARN	
ATTRIBUTE STATEMENT Name urn:oid:0.9.2342.192003	Name form	.) at (optional) Value ence • user.email ence • user.lastNat	ne	LEARN	IMOR
urn:old:2.5.4.4	Name form 00 URI Refer	.) at (optional) Value ence v user.email ence v user.lastNat	ne	LEARN	I MOR
ATTRIBUTE STATEMENT Name urn:oid:0.9.2342.192003 urn:oid:2.5.4.4 urn:oid:2.5.4.42	Name form 00 URI Refer	.) at (optional) Value ence v user.email ence v user.lastNat	ne	LEARN	I MOR
ATTRIBUTE STATEMENT Name urn:oid:0.9.2342.192003 urn:oid:2.5.4.4 urn:oid:2.5.4.42 Add Another	IS (OPTIONAL Name form OURI Refer	ence * user.lastNat ence * user.firstNat	ne	LEARN	I MOR
ATTRIBUTE STATEMENT Name urn:oid:0.9.2342.192003 urn:oid:2.5.4.4 urn:oid:2.5.4.42 Add Another	IS (OPTIONAL Name form OURI Refer	ence * user.lastNat ence * user.firstNat	ne	LEARN	I MOR
ATTRIBUTE STATEMENT Name urn:oid:0.9.2342.192003 urn:oid:2.5.4.4 urn:oid:2.5.4.42	IS (OPTIONAL Name form 0 URI Refer URI Refer URI Refer	ence * user.lastNat ence * user.firstNat	ne	LEARN	I MOR

18. Click **Next** and then click **Finish**.

You are returned to the Sign On settings page.

 In the Settings section, click View Setup Instructions. A new browser window opens and displays information that is required to configure the ExtraHop system.

Assign the ExtraHop system to Okta groups

We assume that you already have users and groups configured in Okta. If you do not, refer to the Okta documentation to add new users and groups.

- 1. From the Directory menu, select Groups.
- 2. Click the group name.
- 3. Click Manage Apps.
- 4. Locate the name of the application you configured for the ExtraHop system and click Assign.
- 5. Click Done.

Add identity provider information on the ExtraHop system

- 1. Return to the Administration settings on the ExtraHop system. Close the Service Provider metadata window if it is still open, and then click **Add Identity Provider**.
- 2. Type a unique name in the Provider Name field. This name appears on the ExtraHop system login page.



- 3. From Okta, copy the Identity Provider Single Sign-On URL and paste into the SSO URL field on the ExtraHop system.
- 4. From Okta, copy the Identity Provider Issuer URL and paste into the Entity ID field on the ExtraHop system.
- 5. From Okta, copy the X.509 certificate and paste into the Public Certificate field on the ExtraHop system.
- 6. 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 system when the user first logs in.
 - Clear the Auto-provision users checkbox and manually configure new remote users through the ExtraHop Administration settings or REST API. Access and privilege levels are determined by the user configuration in Okta.
- 7. The **Enable this identity provider** option is selected by default and allows users to log in to the ExtraHop system. To prevent users from logging in, clear the checkbox.
- 8. Configure user privilege attributes. You must configure the following set of user attributes before users can log in to the ExtraHop system through an identity provider. Values are user-definable; however, they must match the attribute names that are included in the SAML response from your identity provider. Values are not case sensitive and can include spaces. For more information about privilege levels, see Users and user groups .

() Important: You must specify the attribute name and configure at least one attribute value other than **No access** to enable users to log in.

In the examples below, the Attribute Name field is the group attribute configured when creating the ExtraHop application on the identity provider and the Attribute Values are the names of your user groups. If a user is a member of more than one group, the user is granted the most permissive access privilege.

User Privileges

Specify the attribute name and at least one attribute value to grant privileges to SAML users on the ExtraHop system.

Attribute Name

groupMemberships	

Attribute Values	
System and access administration	Security Administrators
Full write	
Limited write	Contractors
Personal write	
Full read-only	
Restricted read-only	
No access	

9. Configure NDR module access.

NDR Module Access

Specify an attribute value to grant access to security detections and views.

Attribute Name

groupMemberships	
Attribute Values	

Full access	Security Administrators
No access	

10. Configure NPM module access.

NPM Module Access

Specify an attribute value to grant access to performance detections and views.

Attribute Name		
groupMemberships		
Attribute Values		
Full access	Security Administrators	
No access		

11. Optional: Configure packets and session key access. This step is optional and is only required when you have a connected packetstore and the Packet Forensics module.

Packets and Session Key Access

Specify an attribute value to grant packet and session key privileges.

Attribute Name			
groupMemberships			
Attribute Values			
Packets and session keys	Security Administrators		
Packets only			
Packet slices only			
No access			

- 12. Click Save.
- 13. Save the Running Config **Z**.

Log in to the ExtraHop system

- 1. Log in to the ExtraHop system through https://<extrahop-hostname-or-IP-address>.
- 2. Click Log in with <provider name>.
- 3. Sign in to your provider with your email address and password. You are automatically directed to the ExtraHop Overview page.