Kloudhybrid / Documentation

OKTA Integrations

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Note: These instructions will be updated following listing in the Okta application gallery

SCIM 2.0

We support an SCIM V2.0 integration with Okta. Set this up as follows:

Get SCIM Credentials from Kloudinsights

First set up some credentials for OKTA to use as an SCIM client:

Goto 'Configuration -> Integrations -> SCIM Configuration' in the KloudInsights admin menus.

On installation a random password will be generated. You can either use as is or enter you own.

S	CIM Configuration	
	Jser	Password
	scim-user	changeit

Set up App in Okta

- Go to Applications -> 'Browse App Catalog'.
- Select SCIM 2.0 Test App (Basic Auth)

okta		Q Search				Image: steve@kloudspot.c kloudspot-dev-626	~
Dashboard	~	← Back to Applications					
Directory	~	👯 Browse App I	nteg	ration Catalog		Create New App	
Applications	^	CATEGORIES					
Applications		All Integrations	7141	Q SCIM		\otimes	
Self Service		Analytics and Automation	641				
Security	~	Collaboration Software	930	INTEGRATIONS			
		Developer Tools and Productiv	ity 629	SCIM 2.0 Test App (Basic	: Auth)		
Workflow	~	Directories and HR Systems	380	SCIM 2.0 Test App (Head	er Auth)	SAML, SWA, Provision	
Reports	~	Data Privacy and Consent Management	5	SCIM 1.1 Test App (Heade	er Auth)	SAML, SWA, Provision	
Settings	~	Identity Proofing	5	SCIM 1.1 Test App (Basic	Auth)	SAML, SWA, Provision	
0		Identity Governance and Administration	11	SCIM 1.1 Test App (OAuth	Bearer Token)	SAML, SWA, Provision	
Thanks for trying the Okta	1	Marketing and Operations	724	See All Results			
Starter plan. Upgrade to the Advanced plan to		Security	716	📲 SIACK	zoom	UTTICE 365	
create more apps and get		Social Login	5	Slack	Zoom	Microsoft Office 365	
more Monthly Active User	s.	Zero Trust Ecosystem	53	SAML, SWA, Provisioning	SAML, Provisioning	SWA, WSFED, Provisioning	
Upgrade		FILTERS Access					

- Click 'Add'.
- Set a name for the applications. You can safely ignore the other options. Click 'Next' and then 'Done'

• Then click on 'Provisioning' and 'Configure API Integration':



• Enter the URL which will be of the form 'https://<server>/scim/v2' and the credentials from above and then click 'Test API Credentials'.

SCIM 2.0 Test App (Basic Auth) was v	erified successfully!
Enable API integration	
Enter your SCIM 2.0 Test App (Basic Auth) crede	entials to enable user import and provisioning features.
SCIM 2.0 Base Url	https:// /scim/v2
Username	scim-user
Password	•••••
	Test API Credentials
	Save

- If the connection is verified, click 'Save'.
- Now we need to configure the provisioning:
 - Click edit and enable 'Create Users', 'Update User Attributes' and 'Deactivate Users'. Do not enable 'Sync Password'.
 - Click 'Save'.

то Арр		okta	→	SCIM	
To Okta				•••••	
Integration	Provisioning to App				Cancel
	Create Users				🗹 Enable
	Creates or links a user in SCI	M 2.0 Test App (Basic A	Auth) when as	ssigning the app to a u	ser in Okta.
	The default username used to	o create accounts is set	to Okta user	rname.	
	Update User Attributes				🗹 Enable
	Okta updates a user's attribu changes made to the Okta us Test App (Basic Auth).	tes in SCIM 2.0 Test Ag er profile will automati	op (Basic Auth cally overwrit	h) when the app is assi e the corresponding at	gned. Future attribute tribute value in SCIM 2.0
	Deactivate Users				S Enable
	Deactivates a user's SCIM 2.0 deactivated. Accounts can be	D Test App (Basic Auth) reactivated if the app	account whe	en it is unassigned in O to a user in Okta.	kta or their Okta account is
	Sync Password				C Enable
	Creates a SCIM 2.0 Test App (Basic Auth).	(Basic Auth) password	for each assi	gned user and pushes	it to SCIM 2.0 Test App

- Finally scroll down to the 'Attribute Mappings' section and remove any sensitive mappings. We recommend that all of the address related mappings are deleted. The application will make use of the name, email and phone number related mappings as well as the organizational hierarchy mappings.
- You are now finished with configuration and can assign users and groups to the app.

SAML

The SAML support is configured as follows:

- Go to the 'Applications' menu in Okta and click 'Create App Integration'.
- Select 'SAML 2.0' as the Sign-on method:



• Enter a name for the app and click 'Next':

Create SAML Integration

1 General Settings	2 Configure SAML
1 General Settings	
denoral octange	
App name	Kloudspot
App logo (optional) 🚳	
	Ø
App visibility	Do not display application icon to users
	Do not display application icon in the Okta Mobile app
Cancel	Next

- Then enter the Single Sign-on URL and the Audience URI as follows:
 - Single Sign-on URL: https://<server>/login/saml2/sso/okta
 - Audience URI: <u>https://<server>/saml2/service-provider-metadata/okta</u>
- Then scroll down to the 'Group attributes' and enter a selector for the groups attribute.



- Then click 'Next' and 'Finish'.
- Then scroll down to the 'Setup Instruction' which will give you the information enter into KloudInsights:

Now login to KloudInsights and perform the following steps:

- Go to 'Configuration -> Integrations -> External Authentication' in the KloudInsights admin menus and enable 'SCIM':
- Select 'Okta' as the Identity Provider and cut and paste the information from the Okta instructions:

SAML	
Enabled	Save
A Once you perform any operation, the server will restart. You may need to	ogin again once it restarts.
Identity Provider Type	
Okta Azure	
Identity Provider Single Sign-On URL	
Identity Provider Issuer:	
I	
X.509 Verification Certificate	
	h h
Default Role	ROLE_USER Group Id
ROLE_USER	
ROLE_MANAGER Group Id	ROLE_ADMIN Group Id
	ks-admin

- Click on save which will restart the server with the new login configuration.
- The integration is now set up and you can assign groups and users to it.
- Note that you can use these groups to select the role used in KloudInsights. To do this enter the mapping into the relevant fields above.

Open-ID Connect

The Open-ID connect support is configured as follows:

- Go to the 'Applications' menu in Okta and click 'Create App Integration'.
- Select 'OIDC OpenID Connect' as the Sign-on method and 'Web Application' as the Application type and then click 'Next'

Create a new app integration

Sign-on method

Learn More 🖸

OIDC - OpenID Connect

Token-based OAuth 2.0 authentication for Single Sign-On (SSO) through API endpoints. Recommended if you intend to build a custom app integration with the Okta Sign-In Widget.

SAML 2.0

 $\mathsf{XML}\xspace$ based open standard for SSO. Use if the Identity Provider for your application only supports SAML.

SWA - Secure Web Authentication

Okta-specific SSO method. Use if your application doesn't support OIDC or SAML.

O API Services

Interact with Okta APIs using the scoped OAuth 2.0 access tokens for machine-to-machine authentication.

Application type

What kind of application are you trying to integrate with Okta?

Specifying an application type customizes your experience and provides the best configuration, SDK, and sample recommendations.

O Web Application

Server-side applications where authentication and tokens are handled on the server (for example, Go, Java, ASP.Net, Node.js, PHP)

Single-Page Application

Single-page web applications that run in the browser where the client receives tokens (for example, Javascript, Angular, React, Vue)

Native Application

Desktop or mobile applications that run natively on a device and redirect users to a non-HTTP callback (for example, iOS, Android, React Native)

Cancel Nex

- Set a name for the App.
- Set the Sign-in redirect URIs and Sign-out redirect URIs:
 - Sign-in redirect URIs: https://<server>/login/oauth2/code/okta
 - Sign-out redirect URIs: https://<server>/logout
- Then click 'Save'. The screen will now show the properties needed to configure KloudInsights:





General Sign On Assignn	nents Okta API Scopes
-------------------------	-----------------------

Client Credentials	Edit
Client ID	0oa2j8nkqgwDHpU7t5d6
	Public identifier for the client that is required for all OAuth flows.
Client secret	•••••••••••••••••••••••••••••••••••••••
	Secret used by the client to exchange an authorization code
	for a token. This must be kept confidential! Do not include it
	in apps which cannot keep it secret, such as those running on a client.
General Settings	Edit
Okta domain	dev-6265734.okta.com

Finally, you need to determine which groups get exposed by Okta. You do this by adding the groups claim and setting the filter appropriately. Typically, you would create groups for the different user roles prefaced by something (for example 'ks-') and then edit the Open Id Connect Token in the 'Sign On' tab:

OpenID Connect ID Token		Edit
lssuer	https://dev-626	5734.okta.com
Audience	0oawd3466K95	ilbIID5d6
Claims	Claims for this t profile.	oken include all user attributes on the app
Groups claim type	Filter	
Groups claim filter 🛛	groups	Starts with ks- s Claim

Okta is now set up. Now login to KloudInsights and perform the following steps:



- Go to 'Configuration -> Integrations -> External Authentication' in the KloudInsights admin menus and enable 'OAuth2 / OpenID Connect'.
- Click 'New Provider' and set the following properties:
 - Name: Set this to 'okta'
 - Issuer URI: Set this using the 'Okta domain'.
 Note that you need to add the 'https://' since this is not present when the property is copied from Okta.

	New Provider
^ okta	Û
Name	Issuer Uri
okta	https://dev-6265734.okta.com
~ Advanced	

- Next click 'New Registration' and set the following properties:
 - Registration Name: Set to 'Okta'
 - **Client Id:** Cut and paste from OKTA
 - **Client Secret:** Cut and paste from OKTA
 - Display Name: Use an appropriate 'friendly' name this is what is displayed on the login screen.
 - Ensure that the 'OpenId', 'Email', 'Profile' and 'Groups' scopes are selected.
 'Offline Use' must not be selected.
 - Enter any group mappings as needed to match those setup above.

^ okta			μ. Δ
Provider		Registration Name	
okta		✓ okta	
Client ld		Client Secret	
0oa2j8nkqgwDHpU7t5d6		STyBcdPWD5wSdbFzKqR3iFA7MZ1hpD6h	nfGsTy5l_
Display Name			
OKTA OIDC			
Default Role		ROLE_NEW Group Id	
ROLE_USER			
ROLE_USER Group Id		ROLE_MANAGER Group Id	
ROLE_ADMIN Group Id			
ks-admin			
Scope :			
✓ OpenId	✓ Email	V Profile	Offline Use
Groups			



- Now click 'Save'. The server will restart. Wait for 15-30 seconds for this to complete and then refresh the screen.
- Whilst the server is restarting, go to the Okta Ui and assign groups/users to the App that you want to be able to access Kloudspot.
- Once the server is restarted, you should be able to see the Okta OIDC login button on the main login screen.