Administrative Guide

FORTANIX DATA SECURITY MANAGER – OKTA INTEGRATION WITH EXISTING SENSU SERVER

VERSION 1.0





TABLE OF CONTENTS

1.0	INTRODUCTION	. 2
1.1	Purpose	2
1.2	Intended Audience	2
2.0	INTEGRATION STEPS	. 2
2.1	Configuration in Okta	2
2.2	Configuration in Sensu	5
2.3	Test the Integration	7
3.0	DOCUMENT INFORMATION	. 9
3.1	Document Location	9
3.2	Document Updates	9

1.0 INTRODUCTION

1.1 PURPOSE

Welcome to the Fortanix Data Security Manager (DSM) Administration guide. The purpose of this guide is to describe steps to integrate Sensu server with Okta for Open ID Connect (OIDC) based authentication.

1.2 INTENDED AUDIENCE

This setup guide is intended to be used by technical stakeholders of Fortanix DSM who will be responsible for planning, performing, or setting up the monitoring and alerting solution, such as the Systems Administrator, Chief Information Officer (CIO), Analysts, or Developers.

2.0 INTEGRATION STEPS

2.1 CONFIGURATION IN OKTA

- 1. Log in to the Okta admin console and go to **Applications**.
- 2. Click the **App Integration** option.
 - a. Select the **OIDC** option as the **Sign-in method**.
 - b. Select Web Application as the Application type.

 OIDC - OpenID Connect Token-based OAuth 2.0 authentication for Single Sign-On (SSO) through AP endpoints. Recommended if you intend to build a custom app integration with the Okta Sign-In Widget.
 SAML 2.0 XML-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.
 API Services Interact with Okta APIs using the scoped OAuth 2.0 access tokens for machine-to-machine authentication.
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 new HTTP collegel. (for example, iOS, Andreid, Poset Matine)

FIGURE 1: APP INTEGRATION OPTIONS



- c. Click Next.
- 3. On the New Web App Integration page, fill in the following information:
 - a. App integration name- Type **sensu** as the value.
 - b. Grant type- Select the Refresh Token option.
 - c. Sign-in redirect URIs- http://<api-url>/authorization-code/callback
 Where, the <api url> for sensu is <<serverip>:8080> generally.
 - d. Assignments- Select the Skip group assignment for now option.

4. Click Save.

New	Web	App	Integration
-----	-----	-----	-------------

App integration name	sensu
Logo (Optional) 🛛	
	Q
Grant type	Client acting on behalf of itself
Learn More 🖸	Client Gredentials
	Authorization Code
	Interaction Code
	Implicit (hybrid)
Sign-in redirect URIs	Allow wildcard * in sign-in URI redirect.
Okta sends the authentication response and ID	http://54.151.121.234:8080/authorization-code/callback
Learn More 🖸	+ Add URI
Trusted Origins	
Base URIs (Optional)	
Required if you plan to self-host the Okta Sign-In	
Nidget. With a Trusted Origin set, the Sign-In	+ Add URI
from this domain.	
Learn More 🖸	
Assignments	
Controlled access	Allow everyone in your organization to access
Select whether to assign the app integration to	Limit access to selected groups Skip group assignment for now
averyone in your org, only selected group(s), or skip assignment until after app creation.	 ords Proofs residentiating intervention.

FIGURE 2: WEB APP INTEGRATION OPTIONS



5. A new Web App Integration is now created. Click the app, and copy the

Client ID, Client secret, and Okta domain to the notepad.

Consu Active •	View Logs
General Sign On Assignment	ts Okta API Scopes
Client Credentials	Edit
Client ID	Ooael74dwhAlmBVfk696
	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 chent.
General Settings	Edit
Okta domain	fortanixsdkms.okta.com

FIGURE 3: COPY CLIENT CREDENTIALS



6. Next, click the **Assignments** tab and add people/group assignments as required.

← Back to Applicat	ions SENSU Active Active Implements Okta API Scope	95	
Assign T Filters	Convert assignments v Person	Q Search Type	People v
People Groups	Compika Tekrisval@fortanix.com	Individual	× ×

FIGURE 4: ADD PEOPLE AND GROUP ASSIGNMENTS

2.2 CONFIGURATION IN SENSU

1. Create an oidc.yml file with all the information.

Here is a sample oidc.yml file:

```
type: oidc
api_version: authentication/v2
metadata:
   name: okta
spec:
   additional_scopes:
   - email
   - groups
```

OKTA WITH EXISTING SENSU SERVER INTEGRATION GUIDE

```
client_id: 0oael74dwhAImBVfk696
client_secret: tfbocOodGFnxefgydm4yFSjDSLvpw_mv41vI1QLM
redirect_uri:
http://54.151.121.234:8080/api/enterprise/authentication/v2/oidc/call
back
server: https://fortanixsdkms.okta.com
disable_offline_access: false
username_claim: email
group_claim: groups
username_prefix: 'oidc:'
```

Where,

- client_id, client_secret and server are from Okta. Refer to Step 5 in the Section: Configuration in Okta.
- Redirect uri is the value provided in *Step 3c* in *Section: Configuration in Okta*.
- 2. Next, create OIDC authentication using the following command:

```
sensuctl create --file oidc.yml
```

Check if the OIDC authentication is created using the following command:

sensuctl auth list

3. Now create a role and do role-binding for the user/group:

For example, if you are creating a read-only role for a user- rose.bush@fortanix.com

Create a read-only role:

```
sensuctl role create readonlyuser --namespace default --
resource=checks,entities,events --verb=get,list
```



Create a role binding on the user:

```
sensuctl role-binding create rbokta --user oidc:rose.bush@fortanix.com
--role readonlyuser --namespace default
```

2.3 TEST THE INTEGRATION

1. Log in to the Sensu app and click **SIGN-IN WITH OKTA** button.

Sign-in with your credentials	
Username	
Password	
SIGN-IN	
Or	
Sensu version 6.6.3	



2. After you are logged in as an Okta user, you should be able to view the Sensu dashboard with the required "view" privileges.



FIGURE 6: SENSU DASHBOARD

3.0 DOCUMENT INFORMATION

3.1 DOCUMENT LOCATION

The latest published version of this document is located at the URL:

https://support.fortanix.com/hc/en-us/articles/4403030801812-Splunk-Integration-with-Sensu-

<u>Server</u>

3.2 DOCUMENT UPDATES

This document will typically be updated on a periodic review and update cycle.

For any urgent document updates, please send an email to: support@fortanix.com

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