portnox* CLEAR Okta Integration Deployment Guide

Why integrate Portnox CLEAR with Okta?

The Okta-Portnox CLEAR integrated solution offers all the benefits of SSO for cloud application access (SaaS), enhanced with extra layers of user and device authentication

The solution not only provides agile and user-friendly access, suitable for the cloud-empowered enterprise, but enhances security with always-on device risk assessment, multi-factor authentication, and network data enrichment that can be used to create specific, tailored security policies

Introduction

The Okta-Portnox CLEAR integrated solution offers all the benefits of SSO for cloud application access (SaaS), enhanced with extra layers of user and device authentication. By tying the user to their device, as well as applications accessed, it's possible for IT departments to significantly decrease their overhead and create smarter access policies that directly address the specific security needs of their organization. Offering various options for augmenting the authentication process for SSO access, the Okta-Portnox CLEAR solution is ideal for enterprises keen on obtaining complete visibility and risk-based authorization cloud application access. The solution not only provides agile and user-friendly access, suitable for the cloud-empowered enterprise, but enhances security with always-on device risk assessment, multi-factor authentication, and network data enrichment that can be used to create specific, tailored security policies.

The benefits include:

- Risk-based authorization for SaaS applications
- Multi-factor authentication
- Expanded onboarding options to avoid access from none-sanctioned devices
- Efficient security-policy management

Prerequisite

As a prerequisite to integrating Portnox CLEAR with Okta, you must deploy Portnox AgentP on all user devices eligible for cloud service access. Refer to the relevant Portnox documentation.

Performing Integration

In the CLEAR Portnox Portal

This section describes the actions you must perform in the Portnox CLEAR portal to prepare for integration with Okta.

A. Add the Okta service

- 1. In the CLEAR portal, navigate to Settings -> Integration Services -> CLEAR Okta Service. Click Create new CLEAR RADIUS instance, select a Location and click Create.
- 2. Note the Cloud RADIUS IP, Okta Port, and Shared Secret values. You will need them when configuring integration with CLEAR, in the Okta Developer Console

B. Enable Okta for user groups

- 1. In the CLEAR portal, navigate to Settings > Groups.
- 2. Click Edit to edit an existing group, or click New to create a new group for Okta authorization.
- Select Group Settings > OKTA Access and check the Enable OKTA access for devices in this group checkbox.

In the Okta Console

The following actions need to be performed in the Okta Developer Console.

- 1. Create an Okta developer environment, or use an existing one, as follows:
 - a. To create an Okta developer environment, go to https://developer.okta.com/signup/
 - b. Follow the instructions in the activation email to access the environment.
 - c. Switch over to the Classic UI, using the drop-down list in the upper left corner of the screen.



- 2. Configure the Okta environment for general MFA setup as follows:
 - a. Select Security > Multifactor > On-Prem MFA > Edit > Enable On-Prem MFA.

okta	Dashboard	Directory	Applications	Security	Reports	Settings	My Applications 🔿	Upgrade
🔒 Multifa	ictor							
Factor Types	Factor Enro	ollment						
Okta Verify								
SMS Authentio	ation		Jn-Prem MFA					Indcuve +
Voice Call Aut	hentication	, L	After configuring this four ser will be prompted to the service of	actor, users sigr to enter their O	ning in to Okta s n-Prem MFA tol	ee that extra verifica ens.	ition is required. If On-Prem MFA is s	elected the
Google Authe	nticator							
Windows Hello	o (Web Authentica	ation)	On-Prom Multi	factor Autho	antication Se	ttings		Cancel
U2F Security	(FIDO 1.0)		OTTICITIVILI		childation 50	.ttiligs		Curren
Yubikey								
Symantec VIP			() On-Pren	1 MFA is not en	abled.			
On-Prem MFA								
RSA SecurID								
Security Ques	tion						Enable 0	Dn-Prem MFA

- b. Enter the following information, and then click **Save**:
 - Provider name any name.
 - Provider username format Select Okta username.
 - Hostname the Cloud RADIUS IP value of the CLEAR Okta Service, noted in Step A (2).
 - Authentication port the Okta Port value of the CLEAR Okta Service, noted in <u>Step A (2)</u>.
 - Shared secret the Shared Secret value of the CLEAR Okta Service, noted in <u>Step A (2)</u>. Note that whenever you click Edit to edit the On-Prem MFA, you must re-enter the Shared Secret value from the CLEAR Okta Service.

Okta Verify SMS Authentication Voice Call Authentication Google Authenticator	On-Prem MFA After configuring this factor, users signing in t user will be prompted to enter their On-Prem	o Okta see that extra verification is required. If On-Prem MF MFA tokens.	Active
Windows Hello (Web Authentication)	On-Prem Multifactor Authentica	tion Settings	Cancel
Yubikey	Provider name	On-Prem MFA	
Symantec VIP On-Prem MFA	Provider username format	Okta username 🔻	
RSA SecuriD	Hostname	10.10.10.10	
Security Question	Authentication port	1234	-
	Shared secret	•••••	
	AGENTS	Add New Agent	
	Disable On-Prem MFA		Save

- **3**. Install an MFA agent for the specific CLEAR+Okta environment, as follows. Note that the MFA agent can be installed anywhere (not necessarily on-premises):
 - a. In the On-Prem MFA screen (shown above), click Add New Agent.

b. In the **Agents** area that appears, click the link to download the agent, and note the instance ID displayed onscreen.

AGENTS
Download the agent:
https://dev-457496-admin.oktapreview.com/static/rsa/OktaOnPremMFASetup-1.3.3.exe
When prompted for an Instance ID, enter:
0oackwjwi9FsV8RtU0h7
Your new Agent will appear in the list after installation

c. When prompted for an Instance ID, enter the Instance ID you had noted in the previous step.

	Okt	a On-Prem MFA Agent 1.3.3	×					
Okta On-Prem MFA Agent Configuration Enter On-Prem MFA agent configuration parameters.								
Insta	nce ID:	Enter the Instance ID provided by the Okta service]					
InstallMate®		< Back Next > C	ancel					

d. When prompted for an Organization URL, enter your organization URL.

0	Okta On-Prem MFA Agent	×
Register Okta On-Prem Enter your Okta customer dom	MFA Agent nain to register this agent with Okta.	
Enter Organization URL:	Examples: https://mycompany.okta.com/ or https://mycompany.oktapreview.com/	
InstalMate@	< Back Next >	Cancel

4. Log into Okta with admin credentials, and click Allow Access for the agent you configured.

Sign into Okta with agent service account	t –
okta	
Ô	On-Prem MFA Agent is requesting permission to:Access the entire Okta API
On-Prem MFA Agent	Allow Access Don't Allow

- 5. Configure in Okta a sign-on policy requiring MFA access, for a specific user or in general, as follows:
 - a. Make sure you created at least another user in your Okta environment that does NOT require MFA, to avoid being locked out of your own environment.
 - b. Select Security > Authentication > Sign On.

okta	Dashboard	Directory	Applications	Security	Reports	Settings	My Applications 🔿
Authe	Ntication Sign On						
Add New Ol	kta Sign-on Policy						
2 Def	nox CLEAR Risk Au	thoriz Po	rtnox CLEAR Ri	isk Authorizat	ion	Active •	🖍 Edit 🗙 Delete
	ant roncy	Ass	scription igned to groups	Use CL	EAR for MFA		
		[Add Rule				
		P	1 Portnox Cl	e LEAR Risk Rule	Access	Status Active •	Actions

c. Configure a rule that requires MFA authentication (Prompt for Factor), but make sure to exclude at least one user from this rule, to avoid being locked out of the system.

Authentication	Edit Rule	
Password Sign On Add New Okta Sign-on Policy 1 Portnox CLEAR Risk Author	Rule Name Portnox CLEAR Risk Rule Exclude Users Exclude Users	
2 Default Policy	IF User's IP is	Anywhere • Manage configuration for Networks
	AND Authenticates via THEN Access is	Any •
		Prompt for Factor Manage configurations for Multifactor Authentication
		Per Device Every Time Per Session
	Session expires after	4 Hours V
© 2018 Okta, Inc. Privacy Vers		Update Rule Cancel

End-user usage

Following Okta integration with Portnox CLEAR, the end-user must perform the following two-step authentication in order to access a Cloud application from his/her device.

1. Login to your Portnox AgentP, click **Tok**, and note the token you receive.

				_ ×
P	Last tick OCT 10, 14:04	Tick	Connection developex.local	
AgentP	Token	Tok	Yes	Settings
	677765	TOR	On premise	
			51-S	
			NO	messages

2. Login to your organizational Okta portal, and enter your Okta credentials.

okta	
Sign In	
vaskravcnuk@testdevelopex.com	0
••••••	0
Remember me	
Sign In	
Need help signing in?	

3. Following credential validation, you are prompted for your MFA passcode. Enter the token you noted in (1).

okta
On-Prem MFA
Enter your On-Prem MFA passcode
Enter Code
Verify

You can now access, from the Okta portal, the applications configured for you,

Ongoing Monitoring

Monitoring in the CLEAR Portnox Portal

Network page

Following successful integration, the Okta MFA Agent, indicated by the Okta icon, appears in the CLEAR portal's **Devices > Network** page, as shown in the left pane of the following figure. The right pane displays all the organizational devices that successfully connected to a cloud application after being successfully authenticated with CLEAR using Okta authentication.

٥۵	ortnox [.] LEAR	Alerts 🔒) De		Settings	Policies	Guests	Help	MSP Page					
				All	•			٩	O	ô Ó C) () ()	nblock	Block	9 Q
÷ 🗖	4-F0-04-B6-0	E-56		ő device(s)										
	CX6450-C12P	D Rout		USER NAME		DEVICE NAME		ACCOUNT	GROUP	RISK SCORE	AGENT	BLOCKED	LAST AUTHENTICATI	CONNECTED
0	окта	(jamesAda	ms@company	System m	anufacturer PC1.		Yg		20 •		1:19 PM, 10/16/	~

Alerts page

Okta-related alerts appear in the CLEAR portal's **Alerts** page. Successful connection to a cloud app following successful Okta + CLEAR authentication is indicated by a green icon (shown below). For unsuccessful attempts, the alert description provides details about the reason for failure.

james.Adams@company Low	📕 System manufacture	(00:00:00:00:00)	Yg Ris	sk Score 🛛 🗖 20	Policy: <u>System Default Policy</u>			
44 sec ago 1:19:19 PM, 10/16/2018	Access Alert Okta authentifica	tion success						
james.Adams@company	The device was successfully authenticated with CLEAR using OKTA authentication and has successfully connected							
	Resolve action	Past activity	Hide	Notification	Additional Info			

Monitoring in the Okta Admin Console

In the Okta console, you can monitor all events by navigating to **Reports > System log**, as shown in the following example.

ok	ta Dashboard	Directory Appl	lications Security	Reports	Settings				
← Back to Reports									
🕒 System Log									
From)/10/2018 () 00:00:00	To	9:59 EEST v	Search					
Count of events over time									
110		Thu 11	Fri 12		Sat 13 Or				
Show event trends by category									
Events: 491 🗮 오									
۲	Time	Actor	Event Info	Та	irgets				
۲	Oct 17 15:25:53	James Adams (User)	Authentication of user success	via MFA Ja	ames Adams (User)				
۲	Oct 17 15:25:52	James Adams (User)	Evaluation of sign-on p challenge	policy Po	ortnox CLEAR Risk Authorization (PolicyEntity) ortnox CLEAR Risk Rule (PolicyRule)				
۲	Oct 17 15:25:31	James Adams (User)	Evaluation of sign-on p challenge	policy Po	ortnox CLEAR Risk Authorization (PolicyEntity) ortnox CLEAR Risk Rule (PolicyRule)				
۲	Oct 17 15:25:31	James Adams (User)	User login to Okta success						



For further information please contact info@portnox.com or visit us at: portnox.com