

DEPLOYMENT GUIDE

Fortinet Security and Centrify



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Overview

Fortinet network security appliances and subscription services provide broad, integrated, and high-performance protection against dynamic security threats while simplifying the IT security infrastructure. Fortinet offers a flexible, end-to-end solution that incorporates

wireless and wired access, security, authentication, switching, and management in an easily managed system that allows systemwide policy enforcement. Centrify offers secure, single sign-on for cloud and mobile applications, as well as management of a broad variety of mobile devices, enabling enterprises to uniformly and efficiently manage identity and access policies for cloud and mobile resources combined with Fortinet's enterprise security. This provides the customer with the combined benefits of both on-premises and cloud-based unified identity services and enterprise security.

Architecture Overview

The following diagram illustrates the various services and components that are part of the Fortinet Centrify integration. Some of these Centrify services are delivered in the Centrify Cloud. This includes a FortiGate appliance and the Centrify Identity Platform, which provide the underlying infrastructure for the Centrify Identity Service and the Centrify Privilege Service. These cloud services are hosted on the Microsoft Azure Platform-as-a-Service and operated by Centrify.

Deployment Prerequisites

The Fortinet and Centrify deployment requires the following:

- 1. FortiGate Firewall
- 2. Network AD Server
- 3. Client Device connecting to the network
- 4. Centrify Software or Cloud Account



Centrify also offers solutions such as Centrify Server Suite, which runs as a set of on-premises software services that provide direct integration with Microsoft Active Directory or LDAP directory services. The Centrify Cloud Connector acts as a secure connection between various on-premises services and the Centrify Cloud Services. Centrify, along with Fortinet, can provide secure identity management services across both on-premises platforms and mobile devices.

The Identity Platform can be used with existing Active Directory, LDAP infrastructures, or use Centrify's cloud-based directory or both.



Figure 1: Topology

Partner Configuration

Centrify Cloud

For customers who want to integrate the Centrify Cloud with their on-premises Active Directory or LDAP directory for user authentication, the Centrify-supplied software program called the Centrify Cloud Connector needs to be installed inside their environment. The Centrify Cloud Connector is a simple Windows service that runs behind a customer's firewall to provide real-time authentication, policy, and access to user profiles without synchronizing data to the cloud.

The Cloud Connector seamlessly integrates with Active Directory or LDAP without opening extra ports in an organization's firewall or adding devices in their DMZ, and it acts as a gateway for access to on-premises applications without the need for VPN.

When the Cloud Connector starts up, it creates a persistent, outbound connection over port 443 (https) to connect to the Azure cloud via the Microsoft Service Bus API. Traffic is encrypted and mutually authenticated (a "secure channel") between the Cloud Connector and the cloud tenant.

First complete registration with Centrify. Log in to Centrify and download the Cloud Connector. Steps to installing Centrify Cloud Connector:

- 1. Log on to the Centrify Cloud Manager at http://cloud.centrify.com/manage.
- 2. Click on Settings \rightarrow Network.
- 3. Click on Add Centrify Connector.
- 4. Click Download and install it on your Windows AD server. See Figure 2.
- 5. Use Portal Credentials for user with "Register Proxies" rights to integrate your Active Directory with Centrify Cloud Services. See Figure 3.





Figure 2: Connectors Download.

Figure 3: Connector Login.

On the Centrify Admin Portal, you should be able to see your server integrated and the status as active. This can be visible under Settings > Centrify Connectors. See Figure 4 below.

Centrify Connector ise these settings to add and ma cam more	Inage connectors.					
Add Centrify Connector						
Name	Forest	Version	Last Ping	Hostname	Enabled Services	Status
WinServer2012	corp.fortidemo.com	17.1.151	02/23/2017 06:39 PM	WinServer2012	AD Proxy App Gateway LDAP Proxy RADIUS Server Web Server (IWA)	Inactive
WIN-L2L0MJH04GN	corp.EntLabHW.local	17.5.152	06/06/2017 10:41 AM	WIN-L2L0MJH04GN	AD Proxy App Gateway LDAP Proxy RADIUS Server Web Server (IWA)	Active

Figure 4: Connectors Configured

The next step is to add Users. Click Core Services > User and Add User. You can also bulk import users. Figure 5 below shows how to import users from the AD server.

Users Coope					
Robert Copie Name	200	Select Users		×	Leef Login
C abouted	fortiveLoom 76 adm				06/06/2017 9.32.51
Laboratory	ageorg fortideA31	Search Usera, Roles and Groups		Q	NOVELOCITY NOW AT A
antorpop	snopcop.turtile. Arth	-			
in a statuted	conj.fortidami z	Source:	Enter search query		
alperts bandloos	ettables local Bane	Contrily Directory			46/96/2017 7:05/92
and	poopendenal. cate	A Alte soon East shall be local			
and a service of	request factor. Care	AC COPLEMENTIC DEM			
Landidate E Bargioy.	etablectural John	157020			
title in special	ort erstative local Supe	User Status.			85-96/2017 8-44.29 /
and a second sec		Siever invited			
LILLAN		in trutted, Never Logged in			
Deep 1		Active			

Figure 5: Adding Users.

You can also import the roles from the AD server or manually create roles as shown below.

N Dashboards	Roles				
Core Services	Search roles	C. Add Role			
Roles	Name	Description †			
in the second	Everybody	All users are in this role by default, whether they have been added directly to the Centrify Directory, or are in an external directory connected through a Centrify Connector.			
	DemoLab	All users are in this role have been added by external directory connected through a Centrify Connector on Demo Lab			
- market and	EntLab	All users are in this role have been added by external directory connected through a Centrifly Connector on Enterprise Lab			
	System Administrator	The primary administrative role for the Admin Portal. Users in this role can delegate specific administrative rights to other roles who require more limited administrative access.			
Endpoints	Invited Users	This role is created as part of invite user action. The role is assigned to a proper policy and application for invited users.			
Settings					
Authentication					
Network					
Users					

Figure 6: Adding Roles.

Centrify Cloud Manager provides Mobile Device Management with FortiGate and FortiAP.

You can centrally configure security and access policies for all wired and wireless users. You can centrally manage devices (info, lock, wipe) and Fortinet App directly to the mobile devices from Centrify.

Fortinet Configuration

For this MDM integration, there is no requirement to configure the FortiGate device.

Fortinet RADIUS Authentication

For RADIUS Authentication, FortiGate can be configured to work with Centrify Cloud as an external RADIUS Server.

Mobile Device Configuration

Install and launch the Centrify application on the mobile device. The user account gets verified against Centrify Cloud Service.

Dashboard and Reporting

The dashboard gives an overview of the login attempts, security events, locations, and devices in the network, as shown in the figure below.



Figure 7: Dashboard.

The Users tab under Core Services lists the status of the authorized users.

All L	Isers Except Service Users +	Search Users		Q Add User B	ulk User Import	nvite Users	
	Login Name	Display Name	Email	Source	Status	Last Invite	Lest Login
	admin.tmg@fortinet.com.76	admin_tmg	tmg@fortinet.com	Centrify Directory	Active		06/06/2017 9:33:51 AM
	adrianalacerva@corp.fortidemo	Adriana La. Cerva		Active Directory (corp.fortidemo	Active		02/01/2017 5:08:47 AM
	anthonysoprano@corp.fortidem	Anthony Soprano		Active Directory (corp.fortidemo	Active		01/31/2017 5:00:23 PM
ii)	artiebucco@corp.fortidemo.com	Artie Bucco		Active Directory (corp.fortidemo	Active		01/31/2017 4:37:44 PM
	bane@corp.entlabhw.local	Bane		Active Directory (corp.EntLabH	Active		06/07/2017 7:01:04 AM
Q	carbonblack@corp.entlabhw.local	carbonblack		Active Directory (corp EntLabH	Not Invited		
	carmelasoprano@corp.fortidem	Carmela Soprano		Active Directory (corp.fortidemo	Active		02/22/2017 5:12:27 AM
U	joker@corp.entlabhw.local	Joker		Active Directory (corp.EntLabH	Active		02/01/2017 2:35:45 PM
	superman@corp.entlabhw.local	Super Man		Active Directory (corp.EntLabH	Active		06/07/2017 11:52:18 AM

The Apps tab lists the apps that can be deployed and the status of those apps.

App	os				
All A	pplicatio	ns + Search Apps		Add Web Apps Add Mobile Apps	
		Name	Туре	Description Provisioning App Gateway	Status
	\$	Centrify	i05 - App Store	The Centrify mobile app provides you with secure convenient access to all your organizations	Ready to Deploy
	•	Certify Mobile	Android - App Store	Certify Mobile is the perfect companion for business travel. You can capture receipts and exp	Ready to Deploy
	Q.	FortiClient	iOS - App Store	FortiClient App includes the following features: SSLVPN: allows you to create a secure SSL V	Ready to Deploy
		FortiClient	Android - App Store	The new FortiClient v5.4 Endpoint Security App not only allows you to securely connect to For	Deployed
		FortiClient VPN	Android - App Store	This FortiClient VPN App allows you to create a secure Virtual Private Network (VPN) connect	Ready to Deploy
		FortiExplorer Lite	iOS - App Store	FortiExplorer Lite App is a user-friendly configuration tool that helps you to quickly and easily	Ready to Deploy
		FortiLink	Android - App Store	Welcome to the Fortinet Portal. Get the latest Fortinet information, including sales, marketing,	Ready to Deploy
۵	-	Fortinet XTREME 2016	Android - App Stone	WHAT IS THE FORTINET XTREME? The 10th, edition of the LATAM XTreme Event brings a mo	Ready to Deploy
		FortiRecorder Mobile	Android - App Store	FortiRecorder Mobile Android App is a user-friendly tool that lets you access your FortiRecord	Ready to Deploy
Q.	1	FortiRecorder Mobile	IOS - App Store	FortiRecorder Mobile IOS App is a user-friendly client that lets you access your FortiRecorder	Ready to Deploy
		Fort/Token Mobile	IOS - App Store	Fort/Token Mobile is an OATH compliant, event-based and time-based One Time Password (0	Ready to Deploy
	*	FortiToken Mobile	Android - App Store	Fort/Token Mobile is an OATH compliant, time-based and event-based One Time Password (0	Ready to Depicy
		Fort/WLM App	IOS - App Store	FortWLM is a network manager application which manages wireless networks in an enterpris	Ready to Deploy
	*	txCharlot Endpoint	IOS - App Store	txia's txCharlot software endpoint, in combination with txia's txCharlot or Hawkeye (formerty tx	Ready to Deploy
	S	User Portal	Web - Portal	The User Portal is your interface to the Centrify Identity Platform. From the portal, you open w	Deployed

Figure 7: Dashboard.

The Endpoints tab lists the status of the authorized device, the apps installed, and details of the hardware, as shown below.

End	poi	nts									
All Ere	ill Endpoints • Search Endpoints			D, 🔳 🔮							
		Name	Serial	Model Name	OS Version	User	Owner	Carrier	Phone Number	Compliance	Status
0	8	XT830C (PN: 0000006532)	ZX1P02JJ76	XT830C	4.4.4	AdrianaLaCerva@corp.fortidemo	Personal		0000006532	Compliant	Unreach
	8	XT830C (PN: 0000001122)	ZX1PD2DTPV	XTB30C	4.4.4	AnthonySoprano@corp.fortidem	Personal		0000001122	Compliant	Unreach
	8	BLU Advance 5.0 (SN: 01234567	0123456789	BLU Advance 5.0	8.1	ArtieBucco@corp.fortidemo.com	Personal				Unenrolled
0		XT830C (PN: 0000008551)	ZX1PD28M8M	XTB30C	4.4.4	Bane@corp.entlabhw.local	Personal		0000008551	Compliant	Enroled
		XT830C (PN: 0000001122)	ZX1P020TPV	XT830C	4.4.4	CarmelaGoprano@corp.fortidem	Personal		0000001122	Compliant	Unreach
0		BLU Advance 5.0 (SN: 01234567	0123456789_	BLU Advance 5.0	5.1	Joker@corp.entiabhw.local	Personal				Unenrolled
0	8	Moto 0 Play (SN: ZY2230V0P2)	ZV2230V0P2	Moto G Play	6.0.1	Superman@corp.entlabhw.local	Personal			Compliant	Enrolled

Figure 8: User.

Summary

Access to Centrify Demo: This demo is part of FortiDemo and EntLab portal and can be accessed using <u>https://aap0764.</u> my.centrify.com/. Log in as admin/admin.

How To Get Help

Fortinet:

This demo is part of the EntLab portal. Contact the Technical Marketing Group to access the setup.

- https://fuse.fortinet.com/p/do/sd/sid=2302&fid=3542&req=direct
- tmg@fortinet.com

Centrify:

- https://www.fortinet.com/content/dam/fortinet/assets/solution-guides/SB-Fortinet-Centrify.pdf
- http://community.centrify.com/centrify/attachments/centrify/techblog/537/1/Centrify%20for%20Fortinet%20RADIUS%20 configuration%20guide.pdf
- support@centrify.com



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