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Administration Guide

FortiZTP 23.1

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Change log

Date	Change Description
2023-02-03	Initial release of 23.1.

Introduction

FortiZTP is a centralized zero-touch provisioning platform for FortiCloud cloud product services. Powered by FortiDeploy, the service supports individual or bulk device provisioning to the target on-premise or cloud services. The centralized service integrates with various FortiCloud services to view the provisioning status and perform actions to provision, deprovision, hide, or change provisioning targets.

FortiZTP supports the following devices and provisioning targets:

Device	Provisioning target
FortiGateFortiGate-VMFortiWiFi	FortiGate CloudFortiManagerFortiManager Cloud
FortiAP	FortiGateFortiLAN Cloud
FortiSwitch	FortiLAN Cloud
FortiExtender	FortiExtender CloudFortiSASE

You must register or import devices to the Asset Management portal in the same FortiCloud account.

Functions

Function	Description
Provisioning status summary	Displays the number of provisioned and unprovisioned devices for supported products.
Provision devices (Zero Touch)	Provision product to the supported target on-premise or cloud service.
Deprovision devices	Deprovision products from the cloud service.
Hide devices	Hide unprovisioned products from the list if they are managed locally.
Regions	 Global (North America) Europe (EU) Japan (APAC) FortiZTP supports FortiGate Cloud, FortiLAN Cloud, and FortiManager Cloud. For information on region support for these products, see the following: FortiGate Cloud: see Functions. FortiLAN Cloud: FortiLAN Cloud includes the Global, Europe, and Japan regions: The data center in Canada serves the GL and JP domains.

Function	Description
	 The data center located in Germany serves the EU domain. FortiManager Cloud: when logged in to the FortiManager Cloud instance, see the region list from the dropdown list in the top right corner. See Deploying a FortiManager Cloud instance.
Languages	English

Requirements

The following items are required to use FortiZTP:

Requirement	Description
FortiCloud account	Create a FortiCloud account if you do not have one. Using FortiZTP requires a FortiCloud account. You must register or import devices to the Asset Management portal in the same FortiCloud account for them to be available for provisioning in FortiZTP
Cloud service licensing	You must ensure that you have the license for the cloud services that you are using as provisioning targets, such as FortiGate Cloud, FortiLAN Cloud, or FortiManager Cloud. Refer to the specific cloud service documentation in the Fortinet Document Library for detailed licensing information.
FortiGate-VM licensing	To provision a FortiGate-VM using the FortiZTP portal, it must have a valid license applied. FortiZTP requires a FortiGate model that supports the zero-touch provisioning (autojoin) feature. FortiGate/FortiWiFi/POE desktop and 1U models up to 100F support the zero touch provisioning feature. For other models, FortiZTP supports one-touch provisioning. For these models, you must configure DHCP on the port of choice. The FortiZTP server can push FortiManager settings to devices that fulfill this requirement. Having trained personnel handle larger deployments is recommended. FortiZTP is available for devices running FortiOS 5.2.2 and later. A FG-VM01 or FG-VM01V license is recommended, as the autojoin feature is enabled by default.
	To enable autojoining FortiGate Cloud: From FortiOS 5.2.3 and later, the <pre>auto-join-forticloud</pre> option is enabled by default. You must enable it for FortiZTP to function correctly. You can ensure that the option is enabled by running the following commands: config system fortiguard set <pre>auto-join-forticloud</pre> enable end After changing this setting, restart the device and ensure that the device is sending traffic to FortiGate Cloud to verify that you have configured it correctly.

Requirement	Description
	For a non-U.S. government FortiGate-VM, you must unset the FortiGuard location: config system fortiguard unset update-server-location end
Browsers	 Microsoft Edge 41 and later versions Microsoft Internet Explorer 11 and later versions Mozilla Firefox 59 and later versions Google Chrome 65 and later versions

What's new

- Support for organizations:
 - Allow portal access for Identity & Access Management (IAM) user and identity provider user with organization
 unit (OU) scope and portal permissions
 - OU account selection and switching
 - OU dashboard
 - Support OU/account switching within portal after login
- Provision history support
- IAM user support enhancements
- · Default landing page automatically set to provisioned list if there are no unprovisioned devices
- Provisioning FortiExtender to FortiSASE

Getting started with the FortiZTP portal

You can access FortiZTP by going to fortiztp.forticloud.com.

The top of the GUI displays how many devices are unprovisioned and hidden. It also displays how many FortiGates are unprovisioned, provisioned, or hidden, as well as the total number of FortiGates that are available for configuration. It displays the same information for FortiAPs and FortiSwitches.

You can use the *Device* and *Status* tabs to filter which devices display in the list. The list displays the following information for each device:

- Device type
- Model
- Serial number
- Provisioning status

If viewing provisioned devices, the list also displays the provisioning location and date for each device.

If the device needs additional setup after provisioning, the *Provisioning Status* indicates that the device is (*Not Setup*). You can click (*Not Setup*) to go to the respective service to complete the setup.

FortiZT	Ρ		Durprovisioned	III FortiGate (**) Fi 0 5 Unprovisioned 15 0 10 Provisioned 0 0 0 Hidden 0	ortIAP \sim FortISwitch Unprovisioned 0 0 Unprovisioned Provisioned \sim 0 Provisioned Hidden \ll 0 Hidden	
10/10 Devices	Device: ALL GATE A	P SWITCH Status: UNPROVIS	IONED PROVISIONED HIDDEN			₽ 🖗
Device	Model	Serial #	Provisioning Status	Provisioning Location	Provisioning Date	٩
III FortiGate	FortiGate-VM	FGVM0	Provisioned(Not Setup)	FortiGateCloud	01/10/2022, 02:19:00 PM	0
🗌 III FortiGate	FortiGate-100E	FG100E	Drovisioned	FortiGateCloud	01/24/2022, 09:21:00 AM	¢
III FortiGate	FortiGate-50E	FGT50E	Contract Provisioned	FortiGateCloud	01/24/2022, 09:51:00 AM	¢
III FortiGate	FortiGate-50E	FGT50E	* Provisioned	FortiGateCloud	01/20/2022, 10:25:00 AM	¢
III FortiGate	FortiGate-60F	FGT60F	* Provisioned	FortiGateCloud	01/24/2022, 09:21:00 AM	¢
III FortiGate	FortiGate-61E	FGT61E	* Provisioned	FortiGateCloud	01/24/2022, 09:21:00 AM	¢
III FortiGate	FortiGate-61E	FGT61E	* Provisioned	FortiGateCloud	01/20/2022, 10:26:00 AM	¢
III FortiGate	FortiGate-61E	FGT61E	* Provisioned	FortiGateCloud	01/24/2022, 09:21:00 AM	¢
III FortiGate	FortiGate-61F	FGT61F	* Provisioned	FortiGateCloud	01/24/2022, 09:21:00 AM	¢
III FortiGate		FGVMS	* Provisioned	FortiGateCloud	01/13/2022, 10:32:00 PM	¢
					Rows per page: 10 👻 1-10 of 10	< >

Provisioning devices

FortiZTP automatically loads devices that are registered to Asset Management with same FortiCloud account. You can view these devices on the UNPROVISIONED tab in FortiZTP and provision them to various Fortinet services as desired.

FortiZTP automatically deletes provisioning history older than one year.

Provisioning a FortiGate

The following describes provisioning a FortiGate.

To provision a FortiGate to FortiGate Cloud:

- 1. Click the Provisioning Settings button on the right. On the FortiGate tab, ensure that FortiGate Cloud is enabled.
- 2. Click UPDATE.



- 3. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiGate, click the Provision icon.
 - **b.** To provision multiple FortiGates, select the checkboxes for the desired FortiGates, then click the *PROVISION* button.
- 4. Under *TARGET LOCATION* in the *Provision devices* dialog, select the desired target location for the FortiGate(s). Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 5. Click PROVISION NOW.

After devices are provisioned, they appear on the PROVISIONED tab.

To provision a FortiGate to FortiManager:

- 1. Click the Provisioning Settings button on the right.
- 2. In the Provisioning Targets dialog, on the FortiGate tab, enable FortiManager.
- 3. In the Serial Number and IP Address fields, enter the FortiManager details.
- 4. By default, FortiGate Cloud is enabled. If desired, you can disable FortiGate Cloud.
- 5. Click UPDATE.

- 6. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiGate, click the Provision icon.
 - **b.** To provision multiple FortiGates, select the checkboxes for the desired FortiGates, then click the *PROVISION* button.
- 7. Under *TARGET LOCATION* in the *Provision devices* dialog, select the desired target location for the FortiGate(s). Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 8. Click PROVISION NOW.

To provision a FortiGate to FortiManager Cloud:

- 1. Click the Provisioning Settings button on the right.
- 2. On the FortiGate tab, enable FortiManager Cloud.
- 3. Click UPDATE.
- 4. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiGate, click the Provision icon.
 - **b.** To provision multiple FortiGates, select the checkboxes for the desired FortiGates, then click the *PROVISION* button.
- 5. Under TARGET LOCATION in the Provision devices dialog, select FortiManager Cloud.
- 6. Click PROVISION NOW.

2 Provision devic	e/s: 1				×
Please ensure your o PLEASE NOTE: you o	levice selection is corre an only bulk-provision	ect, then select your target a selection of devices to a	location f single tar	or your chosen device/s. get location:	
PROVISIONED DEV	/ICE/S		\rightarrow	TARGET LOCATION	
III FortiGate	FortiGate-61E	FGT61E		FortiGate Cloud EUROPE	
				FortiGate Cloud GLOBAL	
				🔵 📋 FortiManager	
				💿 🍙 FortiManager Cloud	N
					\$
				CANCEL	DROVISION NOW

- 7. Power on or factory reset the FortiGate.
- 8. In FortiManager Cloud, go to Device Manager. Right-click the FortiGate, then select Edit.

9. Enable Automatically Link to Real Device, then click OK.

Edit Device						
Name	mod-FGT61E		Ente	er a location		
Description	Model Device Deployed by FortiZTP					
	33/	128				
IP Address	0.0.0.0					
Pre-shared Key		۲				
<u>Automatically Link to</u> <u>Real Device</u>					•	
Serial Number	FGT61E4 FortiGate-61E)					
Firmware Version	FortiGate 6.4, build1903					
Admin User						
Password	•••••					
Connected Interface	+					+
Enforce Firmware Version	None	Ψ				-
Provisioning Templates	Click here to assign		Google		Keyboard shortcuts	Map data @2022 Terms of Use
Policy Package	None	w	Geographic Coordinate	0.0	(Latitude 0.0	(Longitude)
HA Mode	Stand-Alone					
		ОК	Cancel			

After devices are provisioned, they appear on the PROVISIONED tab.

Provisioning a FortiAP

The following describes provisioning a FortiAP.

To provision a FortiAP to FortiGate:

- 1. Click the *Provisioning Settings* button on the right.
- 2. On the FortiAP tab, enable External AC.
- 3. In the IP Address field, enter the desired FortiGate IP address.
- 4. Click UPDATE.
- 5. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiAP, click the Provision icon.
 - **b.** To provision multiple FortiAPs, select the checkboxes for the desired FortiAPs, then click the *PROVISION* button.
- 6. Under TARGET LOCATION in the Provision devices dialog, select External AC. Only options that you have configured in Provisioning Settings appear in this dialog.
- 7. Click PROVISION NOW.

To provision a FortiAP to FortiLAN Cloud:

- 1. Click the *Provisioning Settings* button on the right.
- 2. On the FortiAP tab, ensure that FortiLAN Cloud is enabled.

3. Click UPDATE.



- 4. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiAP, click the Provision icon.
 - **b.** To provision multiple FortiAPs, select the checkboxes for the desired FortiAPs, then click the *PROVISION* button.
- 5. Under *TARGET LOCATION* in the *Provision devices* dialog, select the desired target FortiLAN Cloud for the FortiAP (s). Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 6. Click PROVISION NOW.

Provisioning a FortiSwitch

The following describes provisioning a FortiSwitch.

To provision a FortiSwitch to FortiLAN Cloud:

- 1. Click the Provisioning Settings button on the right.
- 2. On the FortiSwitch tab, ensure that FortiLAN Cloud is enabled.
- 3. Click UPDATE.
- 4. On the UNPROVISIONED tab, do the following:
 - a. To provision a single FortiSwitch, click the Provision icon.
 - **b.** To provision multiple FortiSwitches, select the checkboxes for the desired FortiSwitches, then click the *PROVISION* button.
- 5. Under *TARGET LOCATION* in the *Provision devices* dialog, select the desired target location for the FortiSwitche (s). Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 6. Click PROVISION NOW.

Provisioning a FortiExtender

The following describes provisioning a FortiExtender. Provisioning a FortiExtender to FortiSASE is only supported for FortiExtenders running FortiOS 7.2.3 or a later version.

You must set discovery-type to cloud on the FortiExtender before you can provision it to FortiExtender Cloud or FortiSASE. Use the following commands:

config management

```
set discovery-type cloud end
```

To provision a FortiExtender to FortiExtender Cloud:

- 1. Click the Provisioning Settings button on the right.
- 2. On the FortiExtender tab, ensure that FortiExtender Cloud is enabled.
- 3. Click UPDATE.
- 4. On the UNPROVISIONED tab, do the following:
 - **a.** To provision a single FortiExtender, click the *Provision* icon.
 - **b.** To provision multiple FortiExtenders, select the checkboxes for the desired FortiExtenders, then click the *PROVISION* button.
- 5. Under *TARGET LOCATION* in the *Provision devices* dialog, select FortiExtender Cloud. Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 6. Do one of the following:
 - a. Click NEXT. You can choose to associate the FortiExtender with a profile. Select the desired profile, then click PROVISION NOW.
 - **b.** Click *PROVISION NOW*.

To provision a FortiExtender to FortiSASE:

- 1. Click the *Provisioning Settings* button on the right.
- 2. On the *FortiExtender* tab, ensure that *FortiSASE* is enabled.
- 3. Click UPDATE.
- 4. On the UNPROVISIONED tab, do the following:
 - **a.** To provision a single FortiExtender, click the *Provision* icon.
 - **b.** To provision multiple FortiExtenders, select the checkboxes for the desired FortiExtenders, then click the *PROVISION* button.
- 5. Under *TARGET LOCATION* in the *Provision devices* dialog, select FortiSASE. Only options that you have configured in *Provisioning Settings* appear in this dialog.
- 6. Do one of the following:
 - a. Click NEXT. You can choose to associate the FortiExtender with a profile. Select the desired profile, then click PROVISION NOW.
 - **b.** Click *PROVISION NOW*.

Deprovisioning a device

To deprovision a device:

- 1. Go to the PROVISIONED tab.
- 2. Do one of the following:
 - **a.** To deprovision a single device, click the *Deprovision* icon for the desired device. The *Deprovision* icon is on the right side of the GUI.
 - b. To deprovision multiple devices, select the checkboxes for the desired devices. Click the *Deprovision* button.
- 3. In the dialog, click Deprovision Now.

Deprovisioned devices now display on the UNPROVISIONED tab. You can reprovision them as desired.

After deprovisioning a FortiGate from FortiManager or FortiManager Cloud, you must do one of the following to ensure that FortiGates can successfully be reprovisioned:

- Factory reset the FortiGate.
- Execute the following CLI commands on the FortiGate, then reboot it: config system central-management set type fortiguard end

Frequently asked questions

Question	Answer
How do I access the FortiZTP portal?	You can access the FortiZTP portal via https://fortiztp.forticloud.com. You can use your FortiCloud account credentials to log in.
Why is the account I would like to access not listed after login?	Ensure that your login email has full administrator rights over all of that account's cloud service regions.
How do I find the device I want to provision?	The FortiZTP portal automatically loads devices that are registered to Asset Management with your FortiCloud account, so ensure that you log in to the same account when accessing the FortiZTP portal. After login, you can search the device by its serial number on the <i>Unprovisioned</i> tab.
How do I find a recently provisioned device?	You can search for a device by its serial number or sort the provisioned device list by provisioning date.
Why does the <i>Unprovisioned</i> tab of the FortiZTP portal not list my device?	Ensure that the device has been registered to the same account in FortiCloud Asset Management.
How do I go to the cloud service portal of a particular device after provisioning?	Click the device serial number and the GUI redirects you to its cloud service portal.
How do I change a device's provisioning location?	Deprovision the device, then reprovision it with the preferred provisioning location.



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