

QuickStart Guide

FortiGate[®] 100F Series

Product Registration

Thank you for purchasing a FortiGate. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your FortiGate:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>



April 14, 2020

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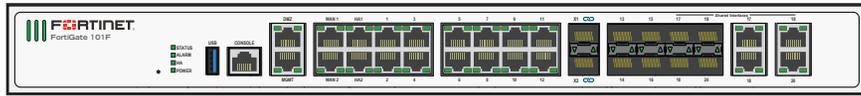
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Package Contents



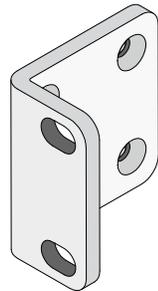
FortiGate® 100F Series



QuickStart Guide



2x Power Cables



2x Rack Mount Brackets



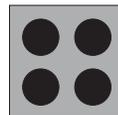
Ethernet Cable



8x Bracket Screws

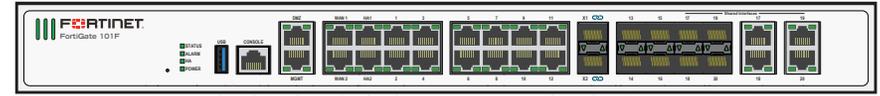


USB Console Cable
(Optional, available for purchase)



4x Rubber Feet

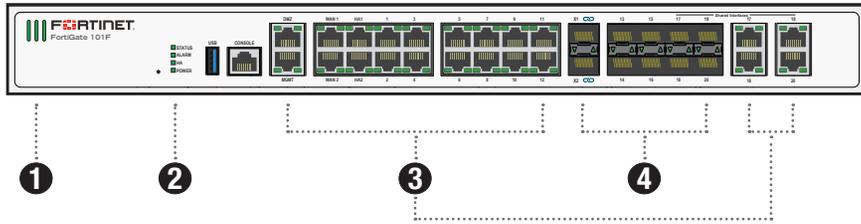
Front Panel - Interfaces



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

- 1** USB (USB A) USB 3.0 server port
- 2** Console (RJ-45) CLI management computer port
- 3** MGMT (RJ-45) 1 Gbps Ethernet client port
DMZ (RJ-45) 1 Gbps Ethernet DMZ network port
- 4** WAN 1 & 2 (RJ-45) 1 Gbps Ethernet WAN ports
- 5** HA1 & HA2 (RJ-45) 1 Gbps Ethernet High Availability ports to FortiGate units
- 6** Ethernet Ports 1 to 12 (RJ-45) 1 Gbps Ethernet ports
- 7** FortiLink X1 & X2 (SFP+) 10 Gbps Ethernet FortiLink auto-detect ports
- 8** SFP Ports 13 to 20 (SFP) 1 Gbps SFP ports
Note: Ports 17 to 20 are shared Ethernet ports
- 9** Ethernet Ports 17 to 20 (RJ-45) 1 Gbps Ethernet ports
Note: Ports 17 to 20 are shared SFP ports

Front Panel - LED Guide



- 1 LOGO**
 - FortiGate
 - Green: The device is on
 - Off: The device is off

- 2 STATUS**
 - Green: Normal
 - Flashing Green: Booting up

- ALARM**
 - Red: Major alarm
 - Amber: Minor alarm
 - Off: No alarm

- HA**
 - Green: Operating in an HA cluster
 - Off: Not in an HA cluster

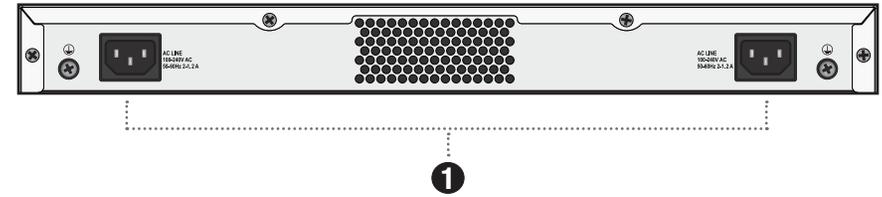
- POWER**
 - Green: Power is on
 - Off: Power is off

- 3 ETHERNET PORT LINK/ACT**
 - Green: Connected
 - Flashing Green: Transmitting data
 - Off: No link established

- ETHERNET PORT SPEED**
 - Green: Connected at 1Gbps
 - Amber: Connected at 100Mbps
 - Off: Not connected or 10Mbps

- 4 SFP & SFP+ PORT**
 - Green: Connected
 - Flashing Green: Transmitting & receiving data
 - Off: No link established

Rear Panel



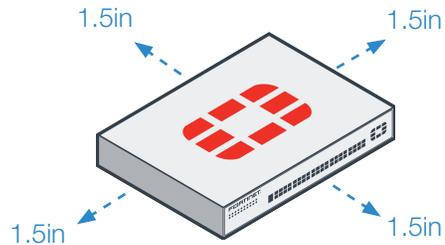
- 1 Redundant Power Supplies** 100 - 240V AC, 2-1.2A, 50/60Hz

Installation

Your FortiGate includes rack mount brackets and screws to mount in any 19 inch rack. You can also install your Fortigate as a Desktop device. Slide-rail kits are also available.

Desktop Mount

1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow

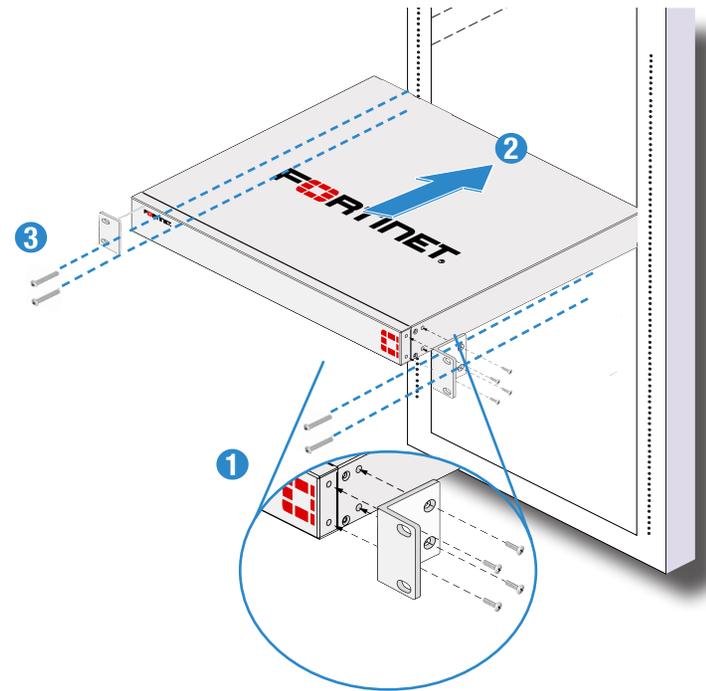


3. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source

Rack Mount

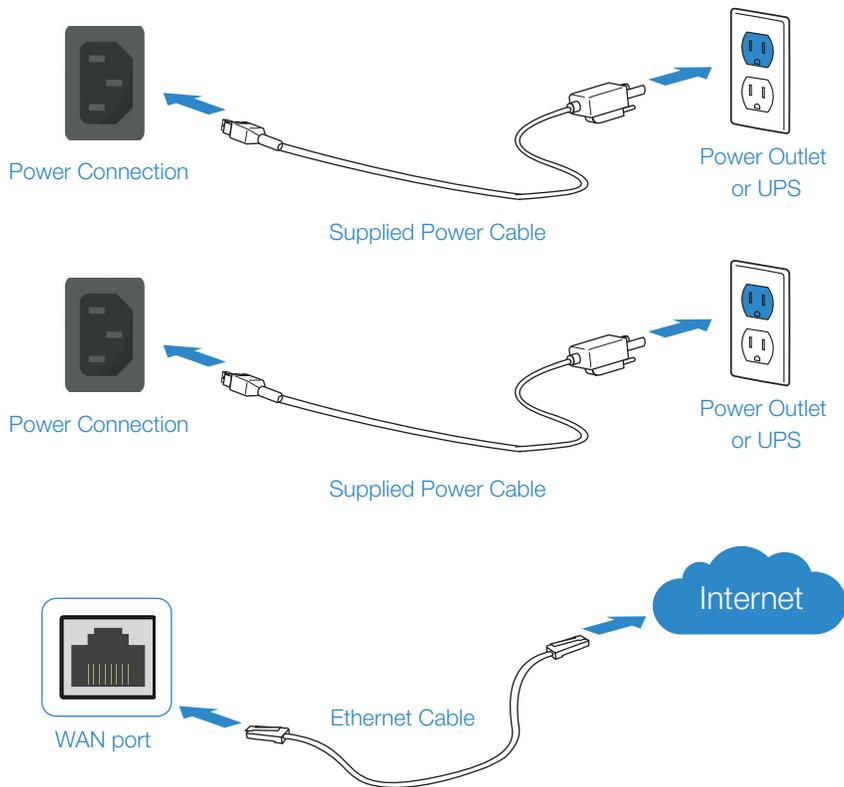
Note: To avoid personal injury or damage to the device, we recommended that two or more people install the unit on a rack.

1. Attach the provided rack-mount brackets and screws
2. Position the device and slide into the rack
3. Fasten the screws to secure the device



Caution: The recommended clearance is 1.5 inches above and below the device

Basic Connections



1. Plug in your device to [power outlets](#) using the provided [power cables](#)
2. Connect a [WAN port](#) to the [internet](#) using the supplied [Ethernet cable](#)

Note: We recommended connecting your FortiGate to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

Setup Options

Set up your device locally or on the cloud. Choose one of the following options to complete your setup, then configure your device.



Local Setup

A GUI

An [easy-to-use GUI](#), compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.



Cloud Setup

B FortiGate Cloud

FortiGate Cloud is a [cloud-based](#) infrastructure management solution and log retention service. It provides [centralized reporting](#), [traffic analysis](#), [configuration management](#), and [log retention](#) without the need for additional hardware and software.



Smartphone Setup

C FortiExplorer

FortiExplorer for iOS is a [user-friendly iOS application](#) that helps you [configure](#), [manage](#), and [monitor](#) appliances. FortiExplorer rapidly provisions, deploys, and monitors Security Fabric components such as [FortiGate](#), [FortiWiFi](#), and [FortiAP](#) devices.



Local Setup

D Command Line Interface (CLI)

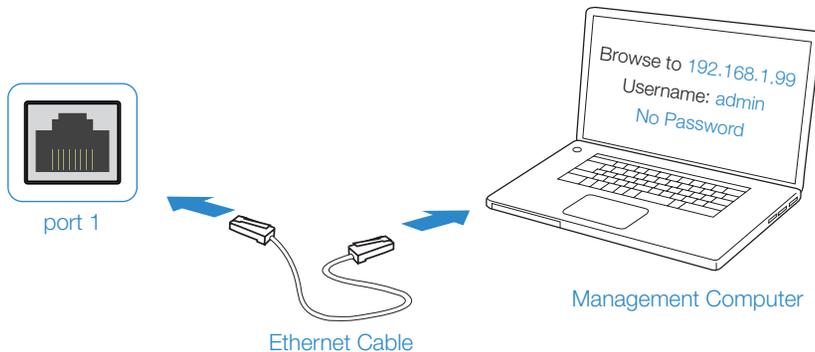
An alternate configuration tool from the web-based manager that uses a [terminal emulation](#) application to [type commands](#) or upload batches of commands from a text file or [configuration script](#). Requires a console cable (available for purchase).

1. Connect port 1 to the Management Computer using the supplied Ethernet cable

2. Enable DHCP or set the Management Computer's IP and subnet to:

Static IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

3. Visit 192.168.1.99 in a web browser



4. Log in with username admin and no password

The screenshot shows a login interface with a green header. It contains two input fields: 'Username' and 'Password'. Below the fields is a green 'Login' button.

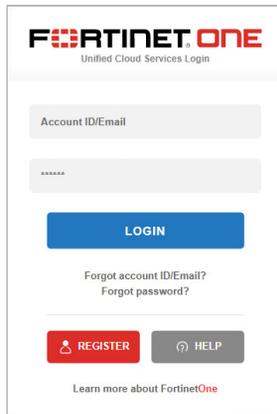
5. When prompted to register, enter your Fortinet credentials

The screenshot shows a 'FortiCare Registration Required' dialog box. It displays the Serial Number 'FG800D3915800295' and 'Action' buttons for 'Login' and 'Create Account'. There are input fields for 'Email', 'Password', 'Country', and 'Reseller', along with a 'Forgot your password?' link. 'OK' and 'Cancel' buttons are at the bottom.

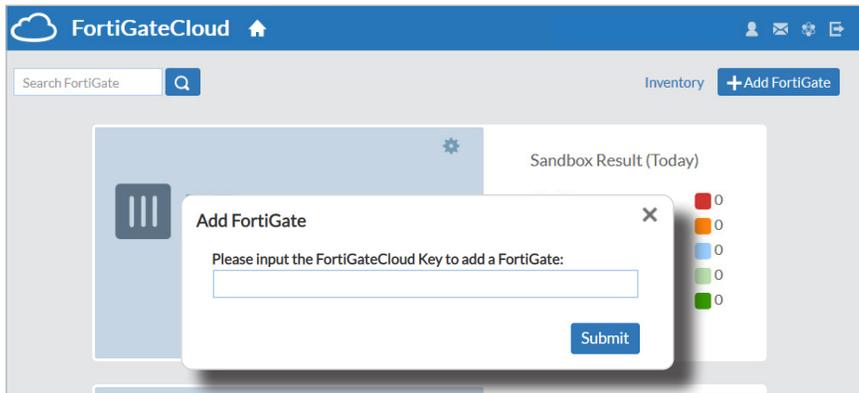
6. The FortiCare Support Status in the FortiOS License Information widget will change to Registered

License Information	
Entitlement	Status
FortiCare Support	Registered
Enhanced Support	8x5 support - expires on 2020/03/08
Virtual Machine	Valid - expires on 2020/03/06
Allocated vCPUs	25% 1 / 4
Allocated RAM	1002 MiB
Firmware & General Updates	Licensed - expires on 2020/03/08
Application Control Signatures	Version 6.00741
Device & OS Identification	Version 1.00084
Internet Service Database Definitions	Version 7.00109
Intrusion Prevention	Licensed - expires on 2020/03/08
IPS Definitions	Version 6.00741
IPS Engine	Version 5.00031
Malicious URLs	Version 2.00430
Botnet IPs	Version 1.00000

1. Log in to forticloud.com using your Fortinet credentials



2. Click **Add FortiGate** and enter the **Cloud Key** located on the **sticker** on your device

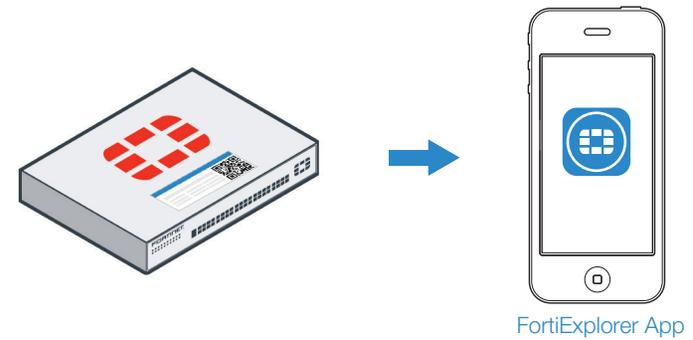


3. You can now manage your device from the cloud

Note: To get a [FortiCloud account](http://support.fortinet.com), register at support.fortinet.com

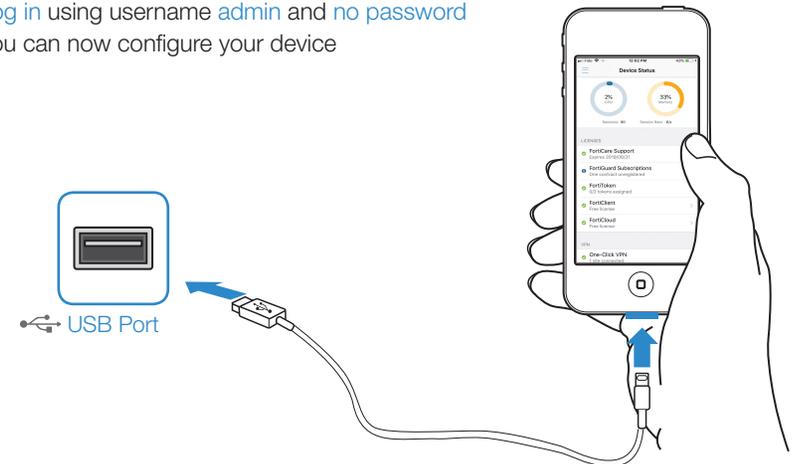
1 Cloud Key Setup

1. [Download](#) and launch the [FortiExplorer iOS App](#)
2. Tap [Devices](#), then tap [Add](#)
3. Select [FortiGate Cloud](#) and log in using your [Fortinet credentials](#)
4. [Scan](#) the [QR code](#) on the Cloud Key
5. [Log in](#) to your device using username [admin](#) and [no password](#)
6. You can now configure your device

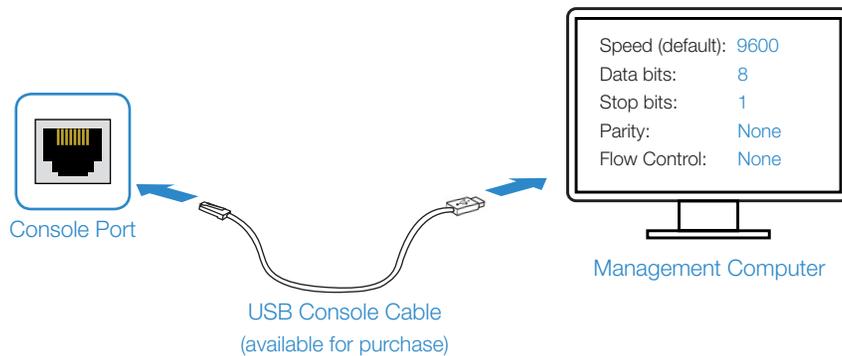


2 USB Setup

1. [Download](#) and launch the [FortiExplorer iOS App](#)
2. Connect your [Apple Lightning to USB cable](#) to the FortiGate/FortiWiFi [USB port](#)
3. [Tap](#) your device when it appears in [FortiExplorer](#)
4. [Log in](#) using username [admin](#) and [no password](#)
5. You can now configure your device



D CLI



1. Connect the **Console Port** with a **console cable** to the **Management Computer**
2. Start a **terminal program** on the **Management Computer** and select an available **COM Port** using the following default settings:

Baud rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

3. Log in using username **admin** and **no password**
4. You can now configure your device

```
FortiGate # ?
config      Configure object.
get         Get dynamic and system information.
show        Show configuration.
diagnose    Diagnose facility.
execute     Execute static commands.
exit        Exit the CLI.

FortiGate # config ?
alertemail  Alert email configuration.
antivirus   AntiVirus configuration.
application Application control configuration.
client-reputation Client reputation tracking configuration
dlp         DLP configuration.
endpoint-control Endpoint control configuration.
firewall    Firewall configuration.
ftp-proxy   FTP proxy configuration.
gui         GUI configuration.
icap        ICAP client configuration.
imp2p       IM & P2P policy configuration.
ips         IPS configuration.
--More--
```

Note: Type **?** for a **list of commands**. Type a command with **?**, such as **config ?** to list the options. For advanced options, visit support.fortinet.com

Resources

Refer to the following resources to continue your FortiGate setup.

FortiGate Documentation Library

Up-to-date hardware and software guides

<https://docs.fortinet.com/fortigate>

Fortinet Customer Service & Support

Access knowledge bases, resource libraries and contact support

<https://support.fortinet.com/>

Fortinet Video Tutorials

FortiOS Tips, Web GUI tutorials, SD-WAN tricks and more

<http://video.fortinet.com>

FortiGuard Labs

Discover FortiGuard's Zero-Day Research, Weekly Threat Briefs and Threat Lookups

<https://fortiguard.com/>

FortiGate Cloud

Analyze centralized reporting, traffic analysis, configuration management and logs

<https://forticloud.com>

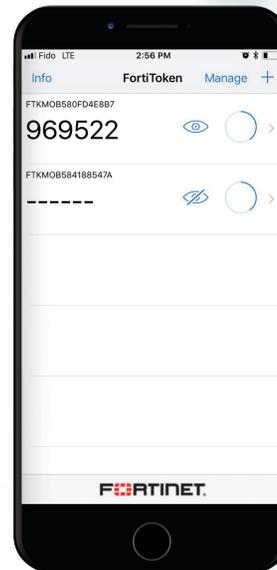
Register for Free Licenses & Services

Simplify and leverage provisioning, management, and analytics with FortiGate Cloud's centralized administration. Extend online logs and analysis to 1 full year with a subscription.

FortiGate Cloud 7 Days of Data Retention

Make remote access simple. Use yourcompany.fortiddns.com instead of a hard-to-remember IP address.

Fortinet DDNS Service



Enable two-factor authentication for remote access using mobile devices. Available for iOS and Android devices. Get extra tokens from your Fortinet reseller.

2 FortiToken Mobile Licenses

Services with FortiCare Subscriptions

Global 24/7 support for your Fortinet hardware & software

Get the latest product security updates and features. Stay with us and see the product evolve.

Firmware Updates

Use cellphone technology as backup Internet connection. We are always adding support for new third party 3G/4G+ devices.

USB Modem Database Updates

Set up policies and track activities based on geography. Your **FortiGate** will intelligently identify where an IP is originated or destined.

Geo-IP Database Updates

Create policies to allow, deny, or restrict access to applications or entire categories of applications. You can use application control to keep malicious, risky, and unwanted applications out of your network.

Application Control Database Updates

Identify device type and OS information. Great for organizations who want to enforce device-based policies so that employees can bring in their devices.

Device Signatures Database Updates

Internet service database objects consist of IP addresses, port numbers, and protocols used by Internet services. Simplify the management and control of cloud-based applications.

Internet Service Database Updates

Fortinet Bundled Services with FortiCare

Fortinet Bundled Services	360 Protection	Enterprise Protection	UTM	Threat Protection
FortiCare	ASE	24x7	24x7	24x7
FortiGuard App Control Service	✓	✓	✓	✓
FortiGuard IPS Service	✓	✓	✓	✓
FortiGuard Advanced Malware Protection (AMP)	✓	✓	✓	✓
FortiGuard Web Filtering Service	✓	✓	✓	
FortiGuard Anti-Spam Service	✓	✓	✓	
FortiGuard Security Rating Service	✓	✓		
FortiGuard Industrial Service	✓	✓		
FortiCASB SaaS-only Service	✓	✓		
FortiConverter Service	✓			
SD-WAN Cloud Assisted Monitoring	✓			
SD-WAN Overlay Controller VPN Service	✓			
FortiAnalyzer Cloud	✓			
FortiManager Cloud	✓			

The Fortinet Security Fabric

Broad

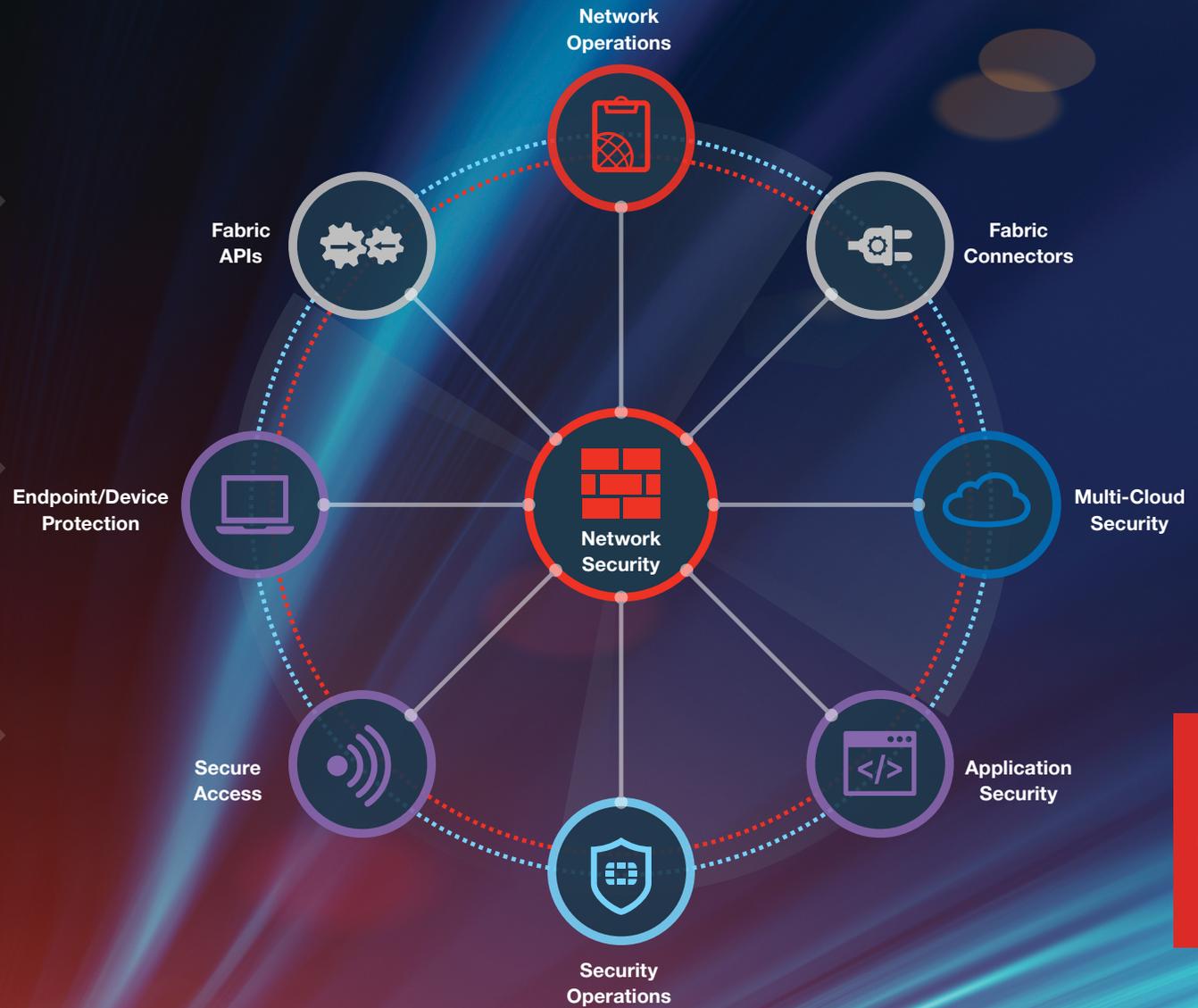
Visibility of the entire digital attack surface

Integrated

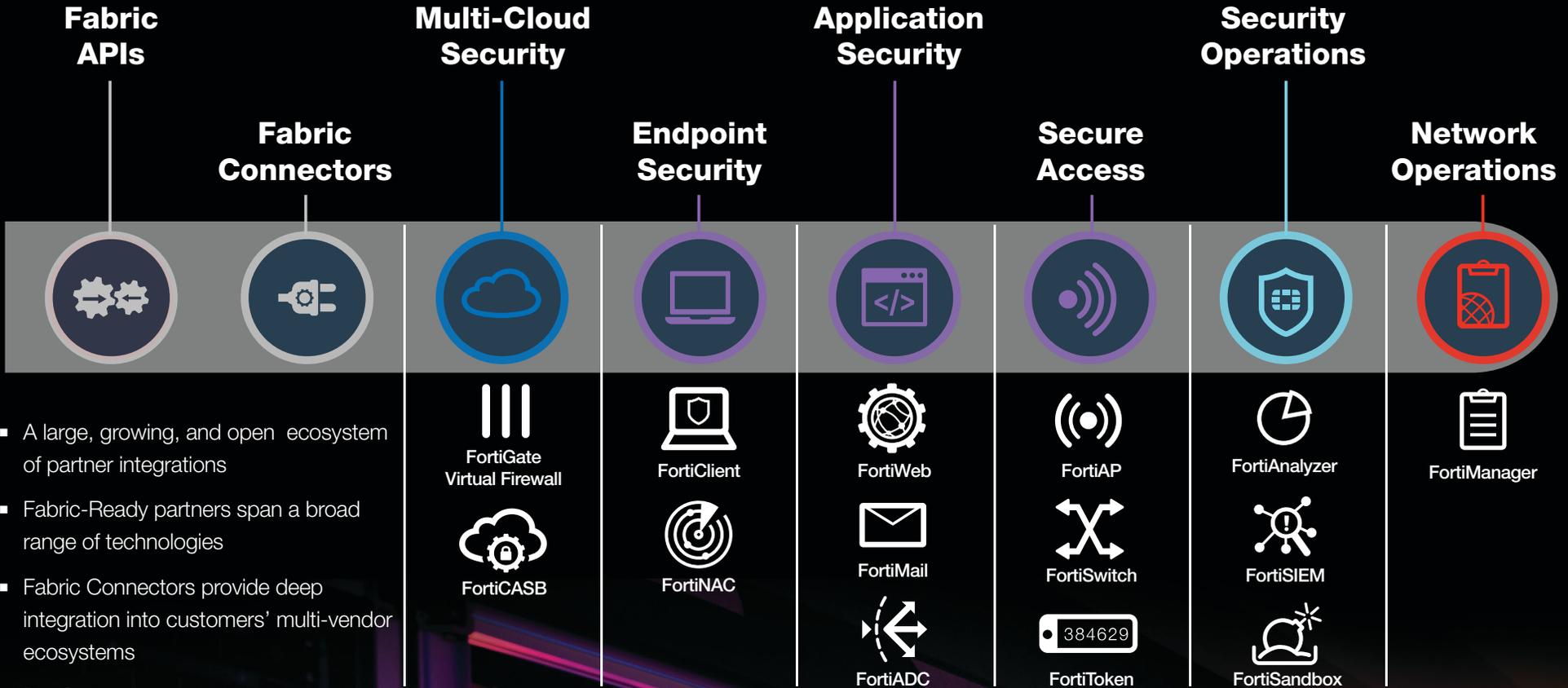
AI-driven breach prevention across all devices, networks, and applications

Automated

Operations, orchestration and response

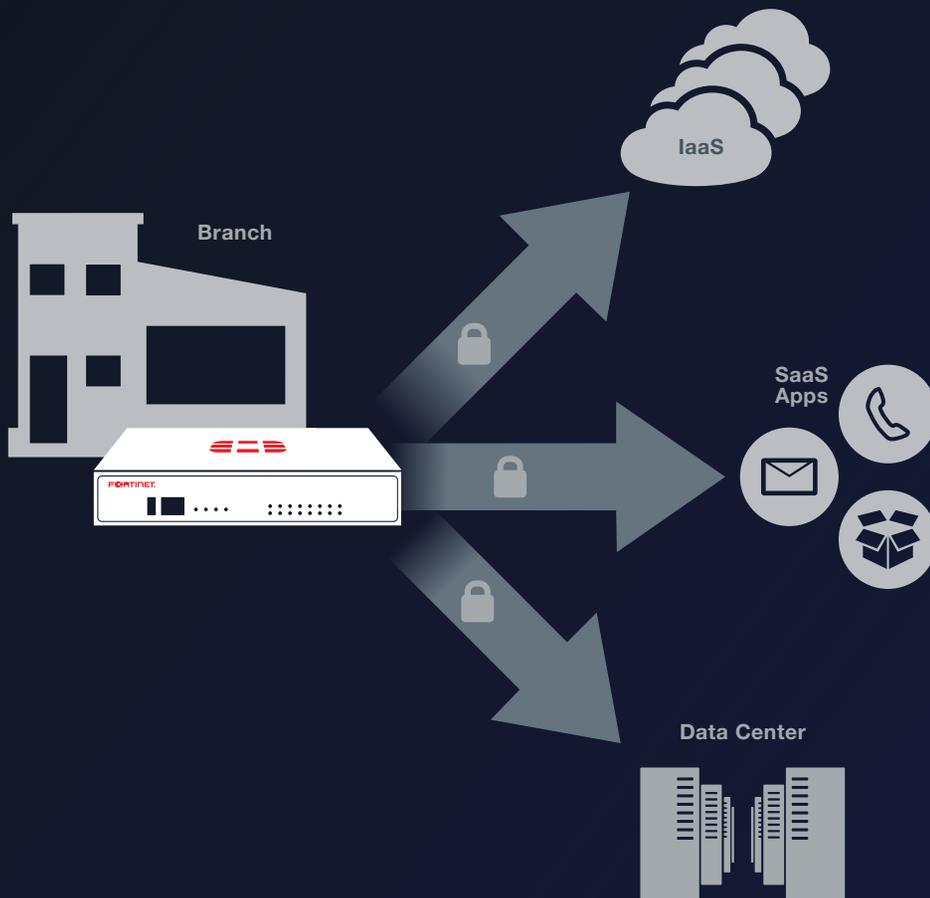


Other Fabric Solutions



Solution Spotlight: Secure SD-WAN

NGFW with built-in, best-of-breed SD-WAN capability enables digital transformation at the enterprise branch.



SD-WAN FortiGate 61E

Products

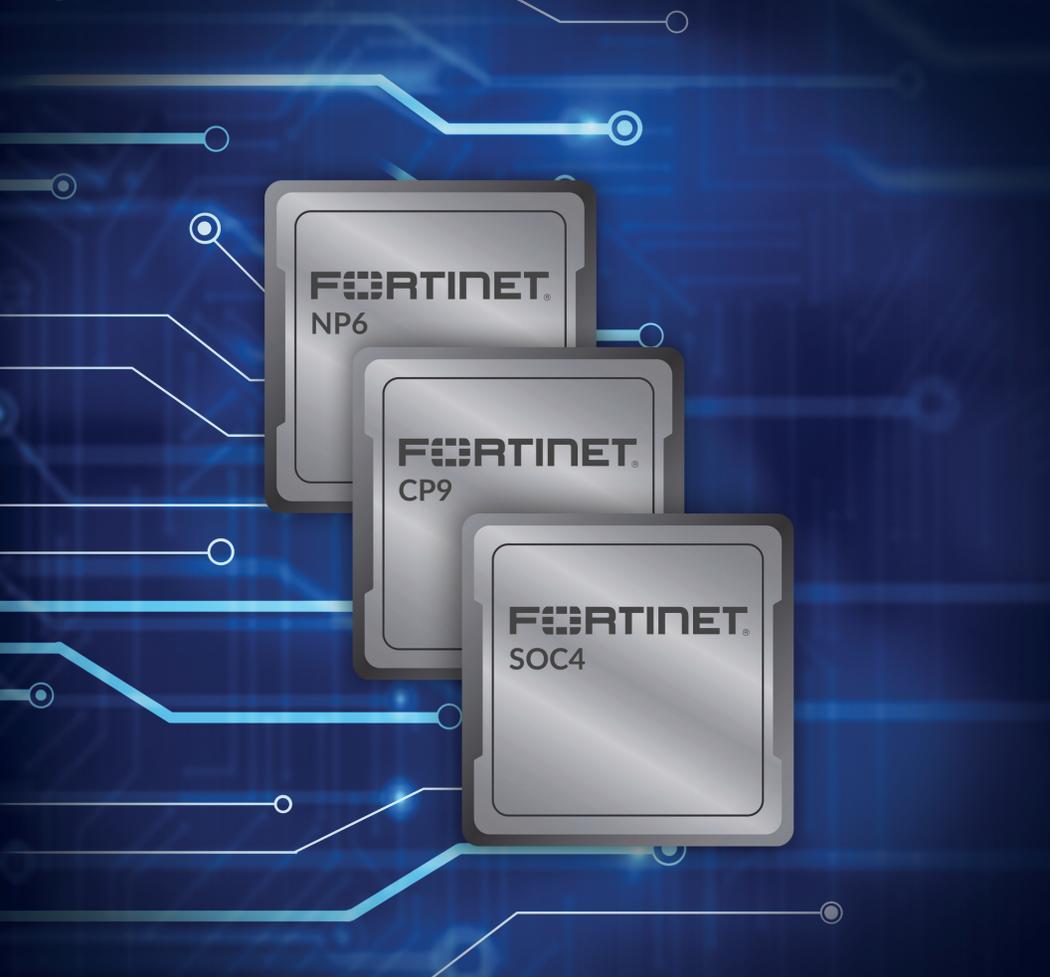
- FortiGate NGFW (at FortiOS 5.6 & above)
- FortiManager

Key Features

- Application-aware steering
- Automated WAN path intelligence
- Single-pane-of-glass management with zero-touch provisioning
- SD-WAN features include in base license

Benefits

- High application performance
- Reduced WAN OPEX
- Safe Internet access for branch sites
- Reduced complexity, easier management



Fortinet Security Processors

Specialized chip design delivers more processing power

Fortinet’s purpose-built architecture delivers extremely high throughput and exceptionally low latency. These purpose-built security processors radically boost performance and scalability to enable the fastest network security appliances available.

Most Certified in the Industry

Fortinet is the only network security vendor to earn independent certifications across all core security technologies

Fortinet demonstrates our ability to consolidate multiple security technologies while still meeting the highest standards of performance and accuracy.



About Fortinet

Corporate Overview

Forward looking market leadership

Fortinet pioneered an innovative, high performance network security solution. We address the fundamental problems of an increasingly bandwidth-intensive network environment and a more sophisticated IT threat landscape. We are a leading provider of network security appliances and the leader in Unified Threat Management, or UTM solutions.

Fortinet is a worldwide leading provider of UTM appliances, with a 17% year over year growth in the UTM security appliance market according to IDC Q4 2018.



Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SRB14.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. 14 peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SRB14.013 s'appliquent aux batteries.

警告

本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:

There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.

Dispose batteries of according to the manufacturer's instructions.

Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.

Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.

If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:

Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann.

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Caution: Shock Hazard. Disconnect all power sources.

Attention: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regula-tions of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
V C C I - A

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法 (PSE) の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS Table) are available at the link below:
限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

China

此為A級產品，在生活環境中，該產品可能會造成無線電干擾。這種情況下，可能需要用戶對其採取切實可行的措施。

Korea Certification (KC) – Korea

A급 기기 (업무용 방송통신기자재)
이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기를 바라며, 가
정외의 지역에서 사용하는 것을 목적으로 합니다.

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