



# FortiGate-600C-DC QuickStart Guide





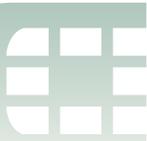
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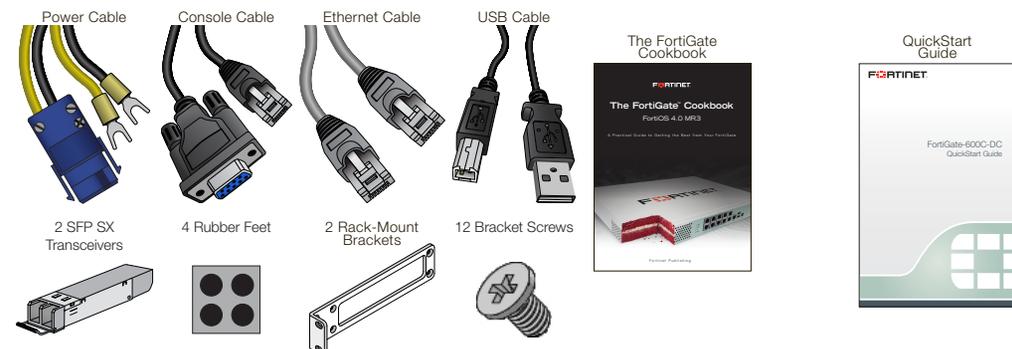
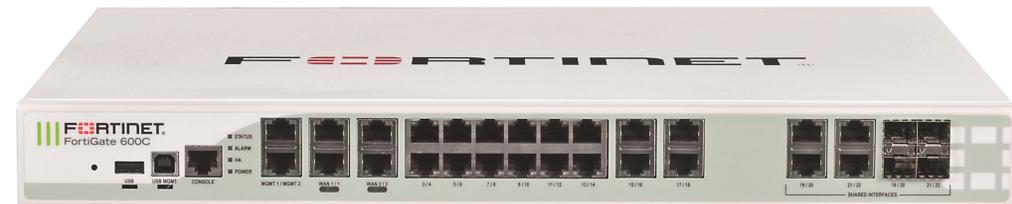
# 1. Package Contents



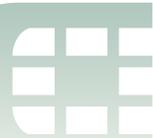
Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

- FortiGate-600C-DC
- QuickStart Guide
- The FortiGate Cookbook
- Power Cable
- Ethernet cable
- USB Cable
- Console Cable
- 2 SFP SX Transceivers
- 4 Rubber Feet
- 2 Rack-Mount Brackets
- 12 Bracket Screws



## 2. Installation



The FortiGate unit can be placed on any flat surface, or mounted in any standard 19in (48.3cm) rack unit with the provided rack-mount brackets and screws.

**Caution:** Please consult a licensed electrician before connecting this product to a DC power source, or hire a licensed electrician to perform all connections.

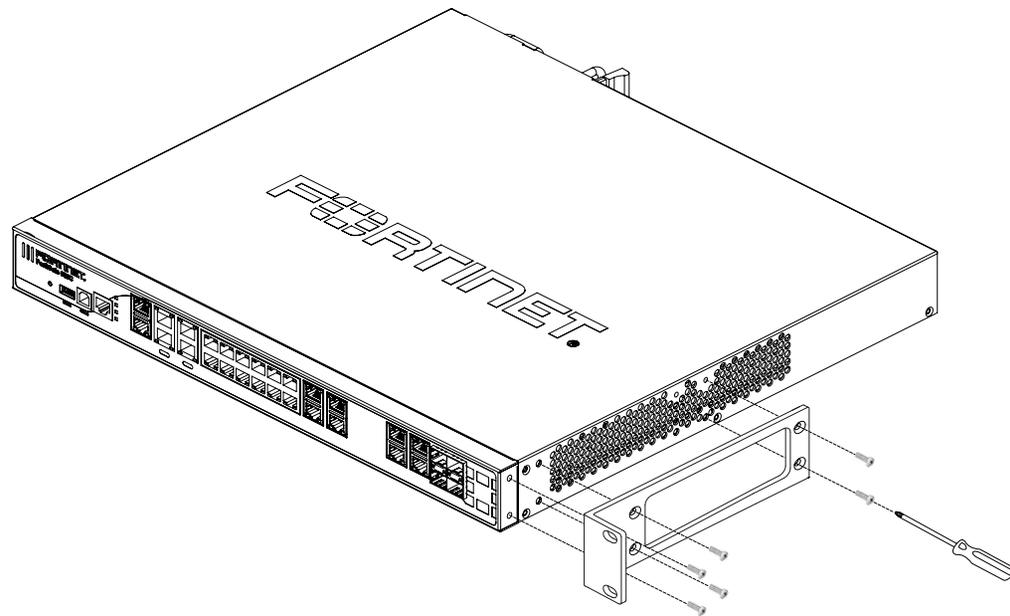
**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

**Caution:** Do not place heavy objects on the unit.

### To install the FortiGate unit into a rack:

**Caution:** To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

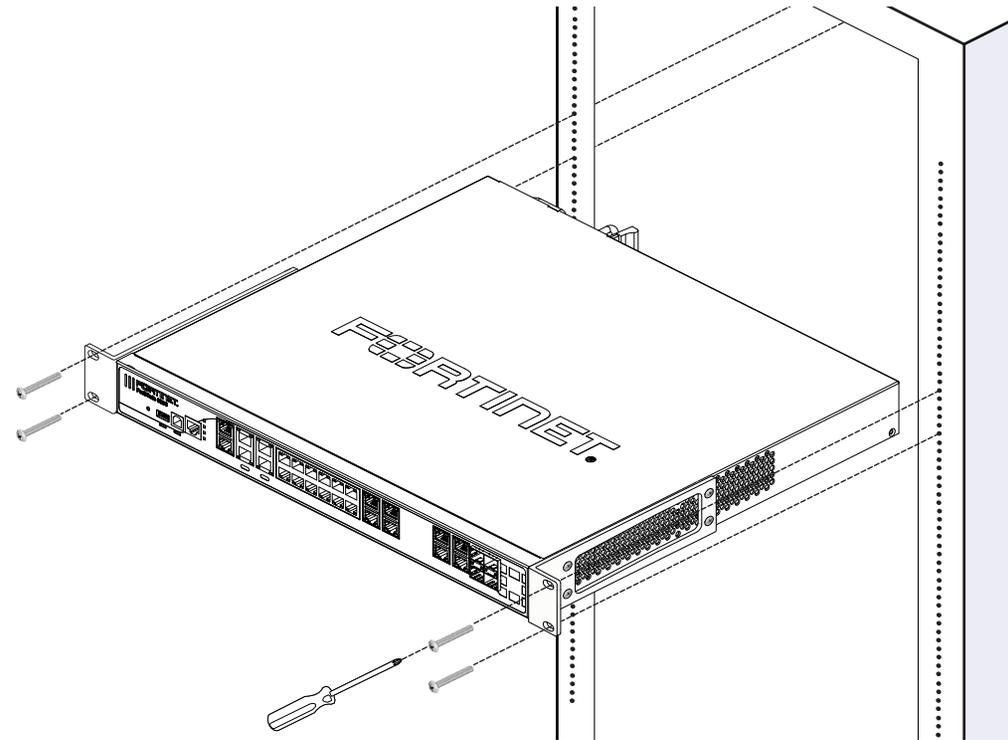
1. Ensure that the FortiGate unit is placed on a stable surface prior to rack-mount installation.
2. Attach the provided rack-mount brackets to the sides of the unit using the provided screws.
  - a. If you are installing the unit into a four-post rack, attach the rack-mount brackets with the handles aligned with the front of the unit.



- b. If you are installing the unit into a two-post rack, attach the rack-mount brackets with the handles aligned with the middle of the unit.

3. Position the FortiGate unit in the rack. Ensure there is enough room around the unit to allow for sufficient air flow.

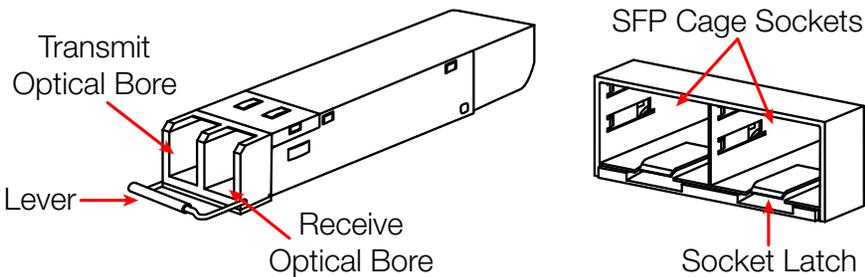
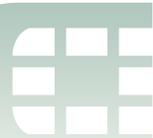
4. Line up the rack-mount bracket holes to the holes on the rack and ensure that the FortiGate unit is level.



5. Finger tighten four rack-mount screws to attach the unit to the rack.
6. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level, then tighten the rack-mount screws with an applicable screwdriver.
7. Using the provided DC power cables, connect the cables to the rear of the unit and then into your DC power source.

**Note:** The DC power cables provided with the device are intended to be used only for in-rack wiring.

### 3. SFP Transceivers



4. Hold the sides of the SFP transceiver module and slide it into the cage socket until it clicks into place.

**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

5. Press the module firmly into the cage socket with your thumb.

6. Verify that the module is latched correctly by grasping the sides of the and trying to pull it out without lowering the extraction lever.

If the module cannot be removed, it is installed and latched correctly.

If the module can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the module is securely latched into the cage socket.

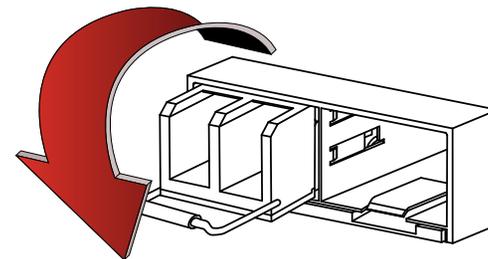
#### To remove the SFP transceivers:

1. Ensure that you are properly grounded.

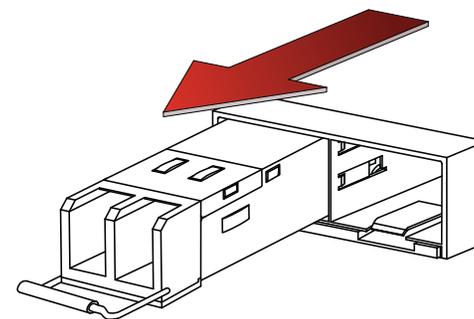
2. If applicable, disconnect the fiber-optic cable from the SFP transceiver module connector and install a clean dust plug in the module's optical bores.

3. Pull the extraction lever out and down to eject the module.

If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the SFP transceiver module and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver module into an antistatic bag.

**Note:** Follow proper fibre-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

**Caution:** Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver module from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.

#### To install the SFP transceivers:

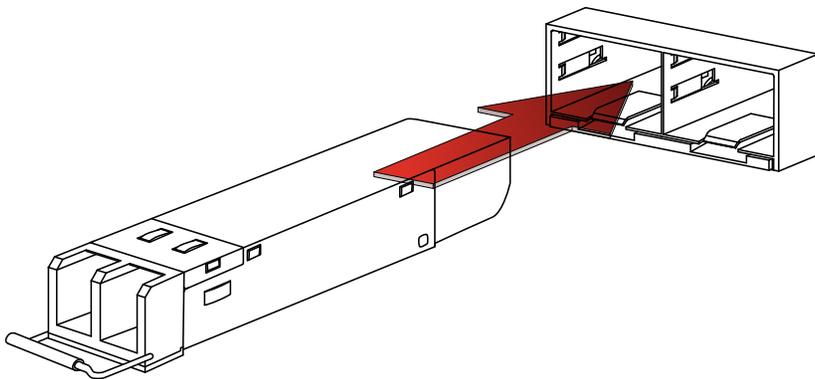
1. Ensure that you are properly grounded.

2. Remove the caps from SFP cage sockets on the front panel of the unit.

3. Position the SFP transceiver module in front of the cage socket opening and ensure that the SFP transceiver module is correctly oriented.

When the module is correctly oriented, the extraction lever will be level with the socket latch.

**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a module.

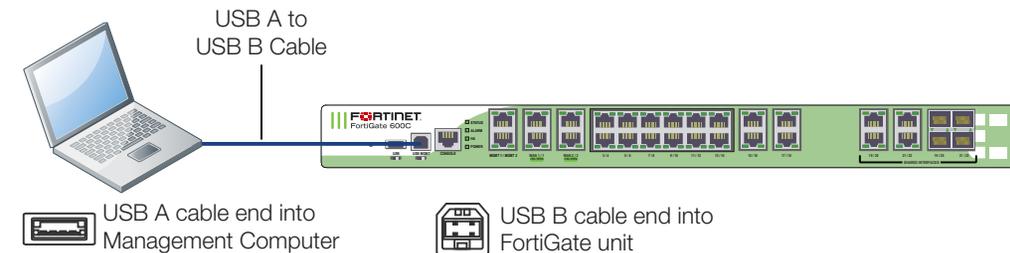


## 4. FortiExplorer



FortiExplorer provides a user-friendly tool that you can use to configure a FortiGate unit over a standard USB connection, rather than using a console cable or Ethernet connection.

**Caution: Do not connect the USB cable until after FortiExplorer has been installed.**



**Note:** When using FortiExplorer for the first time, ensure the FortiGate unit is using its factory default settings.

### Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, and 7. It is also available for Mac OS X 10.6 and higher.

#### Microsoft Windows Install

1. Extract the ZIP file (if downloaded) and double-click the .msi, or .exe file and follow the instructions on-screen. If loading from the CD, select the appropriate version for your operating system.
2. Connect the USB cable to the FortiGate unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select *Install the hardware automatically* and select *Next*.
4. After a moment, FortiExplorer will launch.

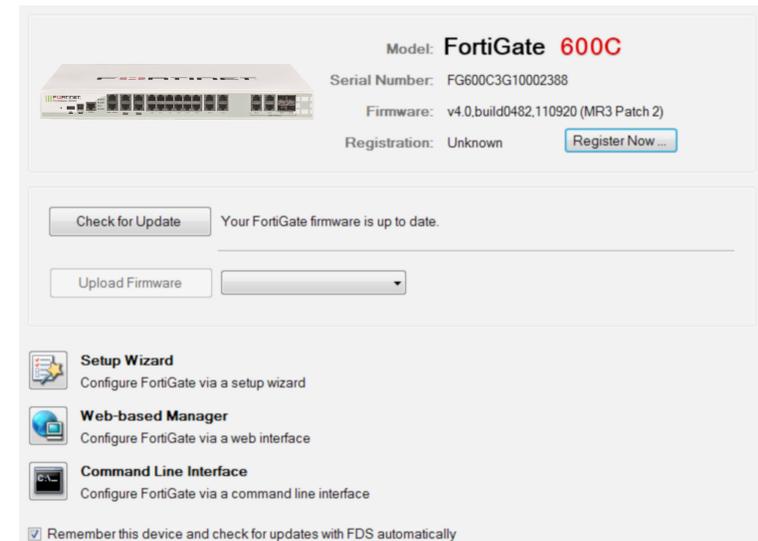
#### Mac OS X Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiGate unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

### Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiGate unit, depending on your level of comfort with various interfaces.

The below image shows the FortiExplorer Easy Configuration Wizard.



### Updating FortiExplorer and Firmware

FortiExplorer may be updated from time to time. To ensure you have the most recent version, FortiExplorer will automatically check the FDS. If a newer version is available, a dialog box will open to ask you for confirmation for it to perform the upgrade.

You can also use FortiExplorer to check for new firmware for a FortiGate unit. To check for new firmware, select the FortiGate unit from the device list and select *Check for Update*.

## 5. Connecting to the FortiGate Unit



The FortiGate unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

In addition to FortiExplorer, the FortiGate unit can be configured using the Web-based Manager or the CLI.

This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

### To Connect to the Web-based Manager:

1. Connect the FortiGate unit MGMT1 port to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiGate unit:
  - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
  - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiGate unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99> (remember to include the “s” in https://).
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with configuring your FortiGate unit.

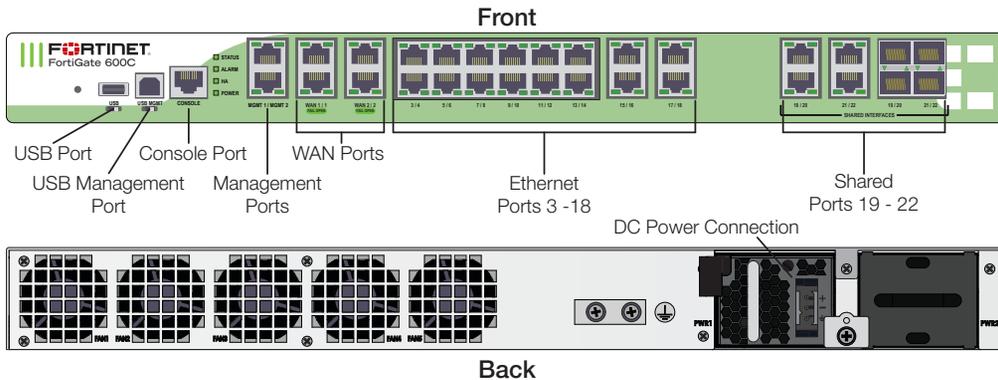
### To Connect to the CLI:

You can configure all FortiGate configuration options from the CLI using *config* commands. The CLI also includes *get*, *show*, *diagnose*, and *execute* commands for performing various configuration and monitoring tasks.

1. Connect the FortiGate unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Use the following settings:
  - Baud Rate: 9600
  - Data bits: 8
  - Parity: None
  - Stop bits: 1
  - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and press *Enter*.

You can now proceed with configuring your FortiGate unit.

## 6. Technical Specifications

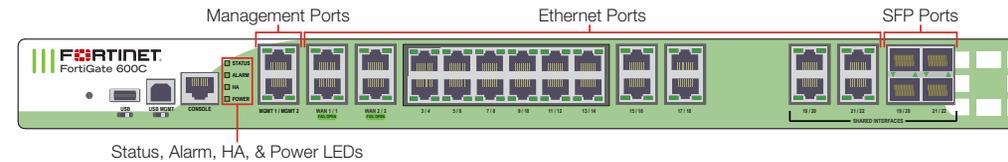


| Interface              | Type  | Protocol         | Description   |
|------------------------|-------|------------------|---|
| Ethernet Ports 3 - 18  | RJ-45 | Gigabit Ethernet | FortiASIC-accelerated switched Ethernet ports for connection to your network and the Internet.      |
| Ethernet Ports 19 - 22 | RJ-45 | Gigabit Ethernet | FortiASIC-accelerated switched Ethernet ports. Shared with SFP ports 19 to 22.                      |
| SFP Ports 19 - 22      | SFP   | 1Gbps/auto       | FortiASIC-accelerated small form-factor pluggable transceiver. Shared with Ethernet ports 19 to 22. |
| WAN1, 1                | RJ-45 | Gigabit Ethernet | FortiASIC-accelerated bypass protected port pair.   |
| WAN2, 2                | RJ-45 | Gigabit Ethernet | FortiASIC-accelerated bypass protected port pair.   |
| MGMT 1 and MGMT 2      | RJ-45 | Gigabit Ethernet | Client ports for management. The default IP address of MGMT 1 is 192.168.1.99.                      |
| USB                    | USB-A | USB 2.0          | USB server ports for USB key, modem, or management functions.                                       |
| USB MGMT               | USB-B | USB 2.0          | USB client port for management.   |
| Console                | RJ-45 | RS-232 serial    | Optional connection to the management computer. Provides access to the CLI.                         |

| Hardware Specification        | Description                                 |
|-------------------------------|---|
| Internal Storage              | non-removable, 64GB Solid State Drive (SSD) |
| Memory                        | Refer to the product datasheet <sup>1</sup> |
| DC Power                      | -48V DC                                     |
| Redundant Power Supply        | Optional                                    |
| Power Consumption (Avg / Max) | Refer to the product datasheet <sup>1</sup> |
| Heat Dissipation              | Refer to the product datasheet <sup>1</sup> |

<sup>1</sup> <http://www.fortinet.com/products/fortigate/600C.html>

## 7. LED Specifications



| LED                     | State          | Description                                   |
|-------------------------|----------------|---|
| STATUS                  | Green          | The unit is operating normally.               |
|                         | Flashing Green | The unit is turning on.                       |
|                         | Off            | The unit is off.                              |
| ALARM                   |                | Not in use.                                   |
|                         |                |   |
| HA                      | Green          | The unit is operating in normal HA mode.      |
|                         | Red            | The unit is operating in failover HA mode.    |
|                         | Off            | The unit is not operating in HA mode.         |
| POWER                   | Green          | The unit is on.                               |
|                         | Off            | The unit is off.                              |
| MGMT Ports Activity     | Green          | Port is active.                               |
|                         | Flashing Green | Port is transmitting and receiving data.      |
|                         | Off            | Port is not in use.                           |
| MGMT Speed              | Green          | Port is connected at 1Gbps.                   |
|                         | Amber          | Port is connected at 100Mbps.                 |
|                         | Off            | Port is connected at 10Mbps or is not in use. |
| Ethernet Ports Activity | Green          | Port is active.                               |
|                         | Flashing Green | Port is transmitting and receiving data.      |
|                         | Off            | Port is not in use.                           |
| Ethernet Port Speed     | Green          | Port is connected at 1Gbps.                   |
|                         | Amber          | Port is connected at 100Mbps.                 |
|                         | Off            | Port is connected at 10Mbps or is not in use. |
| SFP Ports               | Green          | Port is active.                               |
|                         | Flashing Green | Port is transmitting and receiving data.      |
|                         | Off            | Port is not in use.                           |

## 8. Technical Documentation and Links



The following Fortinet web pages provide information and resources for your Fortinet product:

**1. Fortinet Customer Support:** <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

**2. Fortinet Technical Documentation:** <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your Fortigate unit:

- **Hardware Guide:** This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).
- **System Administration Guide:** This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.
- **FortiGate Fundamentals Guide:** This guide describes NAT versus Transparent mode, packet flow and inspection, firewall components, virtual IPs, security policies, UTM profiles, and troubleshooting traffic.
- **UTM Guide:** This guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as antivirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.
- **Troubleshooting Guide:** This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

**3. Fortinet Knowledge Base:** <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

**4. Fortinet Technical Discussion Forums:** <http://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

**5. Fortinet Training Services:** <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

**6. FortiGuard Threat Research and Response:** <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

### Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to [techdoc@fortinet.com](mailto:techdoc@fortinet.com).

## 9. Cautions and Warnings



Please review the following cautions and warnings.

### Environmental specifications

Operating temperature: 32 to 104°F (0 to 40°C)

If you install your Fortinet product in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, make sure to install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature.

Storage temperature: -13 to 158°F (-25 to 70°C)

Humidity: 20 to 90% non-condensing

Air flow - For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

### FCC Compliance

Your Fortinet product complies with either FCC Class A or FCC Class B rules.

The Fortinet product has been tested and found to comply with part FCC Class A, Part 15, UL/CUL, C Tick, CE and VCCI.

Operation is subject to the following two conditions: This device may not cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation. The Fortinet product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC radiation exposure limits set forth for uncontrolled environments.

**Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

### Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP). Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:  
<https://www.fortinet.com/bsmi>

## 10. Register Your Product



If you did not register your Fortinet product using the FortiExplorer wizard, please register your product now.

### Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

### Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

### Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

### Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

### 登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护

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

**Toll free: 1 866 648 4638**

**Phone: 1 408 486 7899**

**Fax: 1 408 235 7737**

**Email: [register@fortinet.com](mailto:register@fortinet.com)**

## 11. Product License Agreement



### Product License Agreement

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6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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