FortiGate 60C

QuickStart Guide

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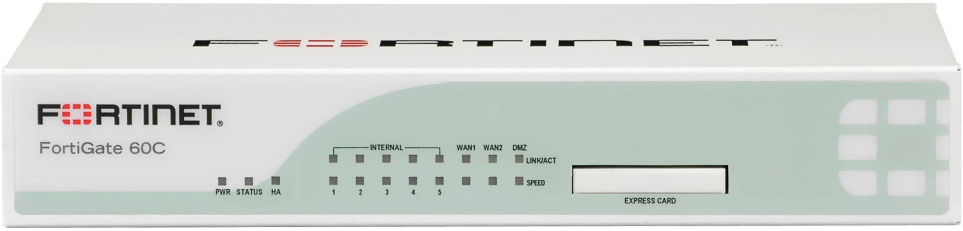
Package Contents

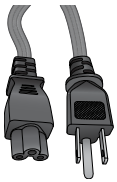
Thank you for purchasing the FortiGate 60C. The FortiGate 60C multi-threat security appliance offers you unmatched performance, flexibility, and security for your remote, branch, or small office network.

Your box contains the following:

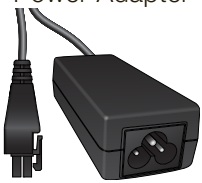
- FortiGate 60C
- QuickStart Guide
- USB Cable
- Ethernet cable
- Power Cable
- Power Adapter
- Wall mount template



Power Cable



Power Adapter

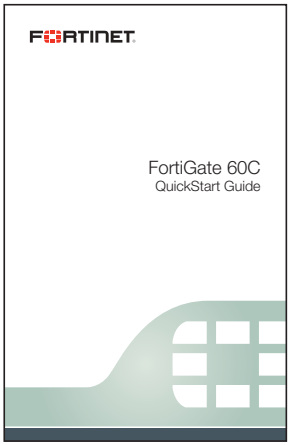


Ethernet Cable

USB Cable

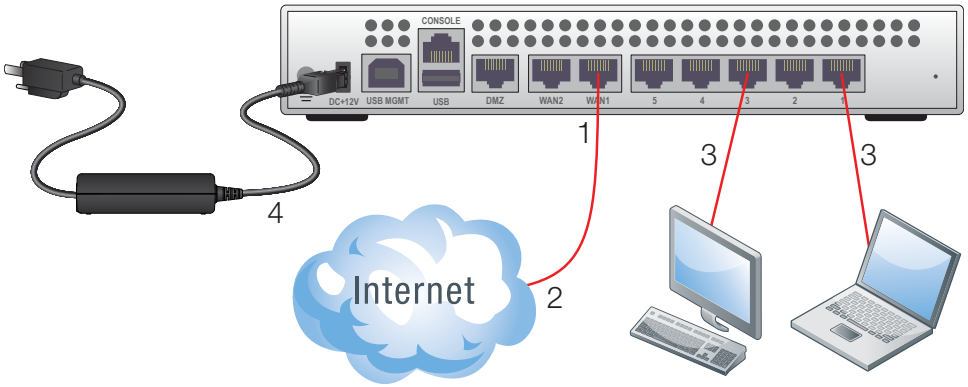
Wall-mount Template

QuickStart Guide



Note: Accessories may not be exactly as shown.

Connecting Your Device



To attach your unit to a wall, refer to the wall mount template.

Ensure the FortiGate unit is placed on a stable surface. Connect the following to the FortiGate unit:

1. Connect an Ethernet cable into the port labeled WAN1.
2. Connect the other end of your Ethernet cable to your Internet connection.
3. Connect an Ethernet cable to each workstation or laptop PC you wish to connect to the FortiGate unit.
4. Connect the Power Supply to the FortiGate unit and plug the cable into an electrical outlet.

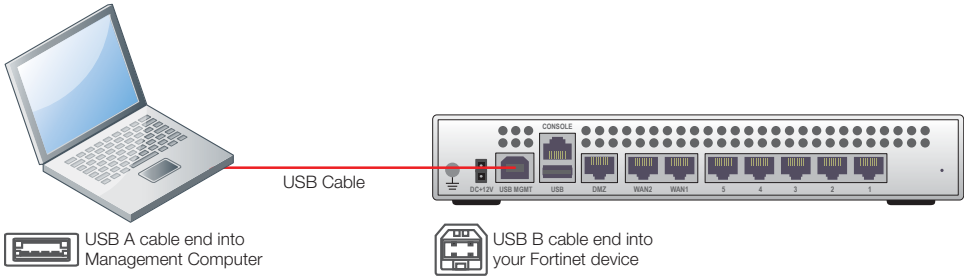
ExpressCard Slot

Optionally, you may also insert a wireless Internet modem into the ExpressCard slot for wireless connectivity to the Internet.

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, 7, and 8. It is also available for Mac OS X Snow Leopard 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.
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.

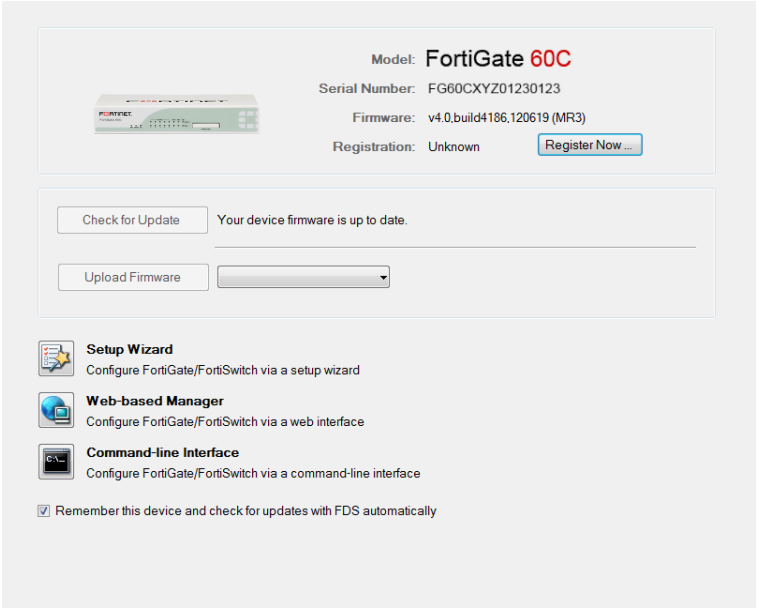
Mac OS Install

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 automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiSwitch unit. To check for new firmware, select the FortiGate unit from the device list and select *Check for New Firmware*. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

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 Command Line Interface (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's MGMT 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's 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.

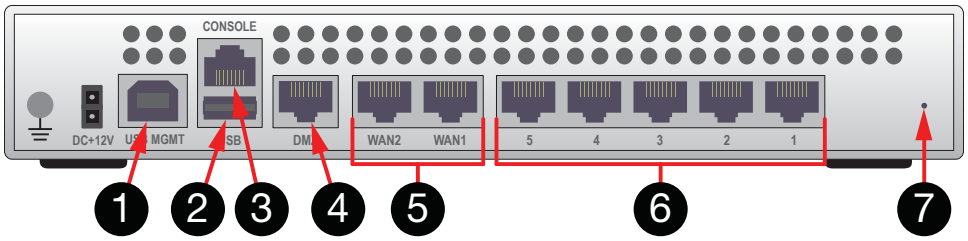
To Connect to the CLI:

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's 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*.

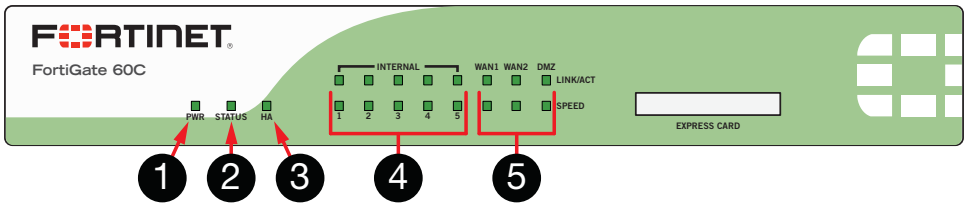
   You can now proceed with configuring your FortiGate unit.

Technical Specifications



#	Interface	Type	Description
1	USB MGMT	USB-B	USB client port for management.
2	USB	USB-A	USB server port for USB key, modem, or management functions.
3	Console	RJ-45	Optional serial connection to the Management Computer. Also gives access to the CLI.
4	DMZ	RJ-45	Optional connection to a DMZ network/device or to other FortiGate units for High Availability (HA).
5	WAN1 & 2	RJ-45	Gigabit Ethernet Internet connection.
6	Ethernet ports 1 - 5	RJ-45	Gigabit Ethernet 5-port switch connection for the internal network.
7	Reset Button		When enabled (default state), resets the unit to its factory default settings if pressed during the first 30 seconds after a reboot.
	Power Connection		12V DC, 2.5A 100-240V AC, 1.5A MAX, 50-60Hz adapter
	ExpressCard slot		The ExpressCard slot (on the front of the device) adds wireless connectivity (card not included).

LED Specifications



#	LED	State	Description
1	PWR	Green	The unit is on.
		Off	The unit is off.
2	STATUS	Flashing Green	The unit is booting.
		Green	The unit is running normally.
3	HA	Green	The unit is operating in an HA cluster.
4	Ethernet Ports Link/Activity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
4	Ethernet Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps
5	WAN and DMZ Ports Link/Acticity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
5	WAN and DMZ Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps

Cautions and Warnings

Please review the following cautions and warnings.

Environmental and mounting specifications

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

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

Humidity: 20 to 80% non-condensing

Operating Altitude: <2250m (7400ft)

Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow: Installation of the equipment in a rack should be such 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 inches (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

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 B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. 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. 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.

WARNING: Any changes or modifications to this unit 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 (B) / NMB-3 (B)

European Conformity (CE) - EU

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

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.

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

IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to 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

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

Documentation and Links

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

1. **Customer Service & 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. **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.

3. **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. **Technical Discussion Forums:** https://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. **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.

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 fonctionnalitées du produit • Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

• Supporto Tecnico • Nuove funzionalita • Proteezione dalle ultime minaccce

Registrar

Debe registrar el producto para recibir:

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

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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

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Toll free: 1 866 648 4638
Phone: 1 408 486 7899
Fax: 1 408 235 7737
Email: register@fortinet.com

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