WEB APPLICATION FIREWALL

FortiWeb™ 4000D

QuickStart Guide



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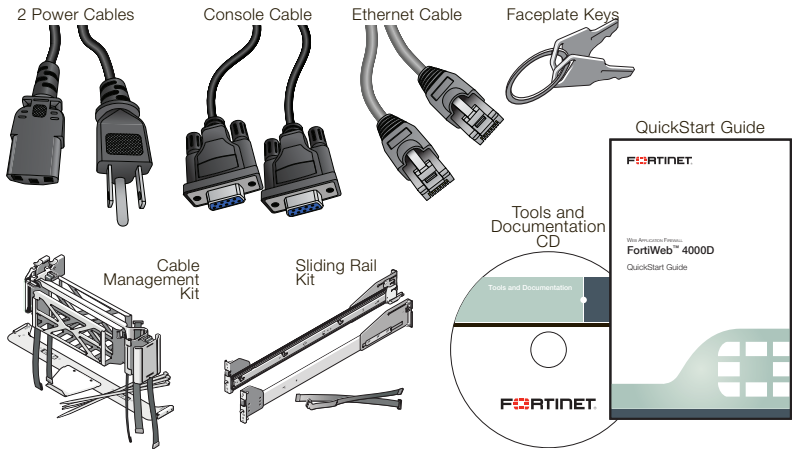
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Package contents

The box should contain:

- FortiWeb 4000D appliance
- FortiWeb 4000D QuickStart Guide
- Tools and Documentation CD
- 2 Power cables
- Ethernet cable
- Console cable
- Faceplate keys
- Sliding rail kit
- Cable management kit



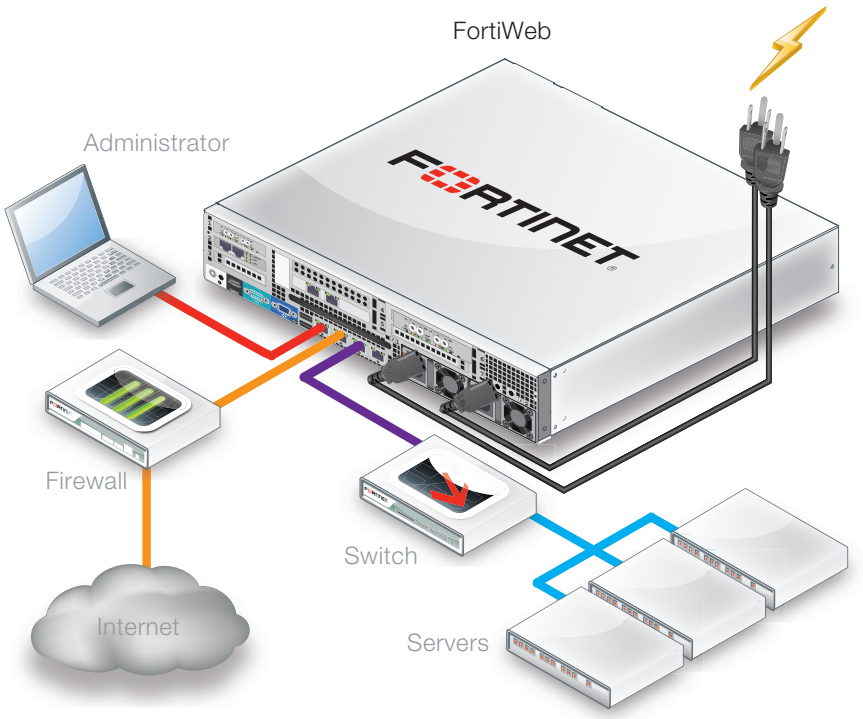


Connecting to FortiWeb

FortiWeb appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiWeb appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiWeb 4000D occupies 2U (3.5 inches/8.9 cm). If the appliance has a redundant power supply, each power cable should be connected to a different power source.

You can configure FortiWeb for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiWeb only to your computer until you finish setup. (If you place FortiWeb in your network before FortiWeb is set up, traffic could be interrupted until setup is complete.) **Deployment instructions are in the FortiWeb Administration Guide.** One basic network topology is below.



To connect to the web UI

Requires: Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect port1 of the appliance to your computer.
2. Configure your computer to match the appliance's default port1 subnet.

   For example, on Windows 7, click the *Start* (Windows logo) menu to open it, then click *Control Panel*. Click *Network and Sharing Center*, *Local Area Connection*, and then the *Properties* button. Select *Internet Protocol Version 4 (TCP/IPv4)* then click its *Properties* button. Select *Use the following IP address*, then change your computer's settings to:

   - *IP address:* 192.168.1.2
   - *Subnet mask:* 255.255.255.0
3. To connect to FortiWeb's web UI, start a web browser and go 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, then click *Login*.

To connect to the CLI via serial console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these 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.

Shutting down



Always properly shut down the FortiWeb appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiWeb appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the web UI

1. Go to *System* > *Status* > *Status*.
2. In the *System Information* widget, click the *Shut Down* link.

   You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the *CLI Console* widget in *System* > *Status* > *Status*.
2. Enter the following command:

   ```
   execute shutdown
   ```

   You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

Registering your product



Register

You must register the product with Fortinet in order to receive:

• Technical support • Software updates
• FortiGuard updates

Enregistrer

Vous devez enregistrer le produit pour recevoir:

• Support technique • Mises-à-jour logiciel
• Mises-à-jour FortiGuard

Registra

La registrazione vi permette di usufruire di:

• Supporto tecnico • Aggiornamenti software • Aggiornamenti FortiGuard

Registrar

Debe registrar el producto para recibir:

• Apoyo técnico • Actualizaciones del software
• Actualizaciones FortiGuard

登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

• テクニカルサポート • ソフトウェアのアップデート • FortiGuardのアップデート

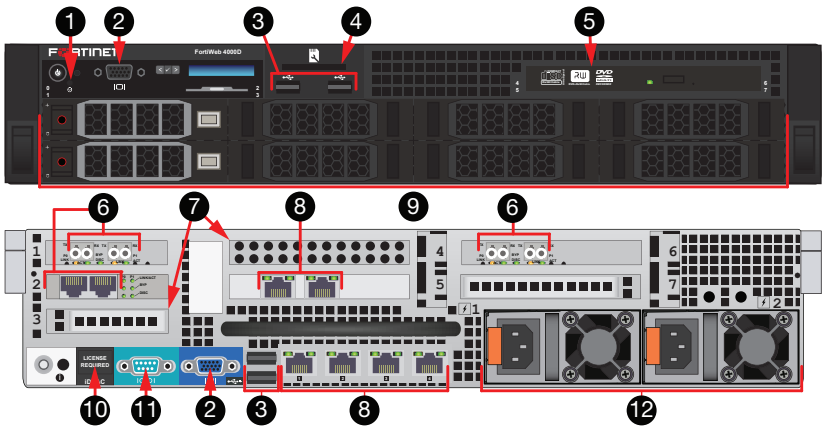
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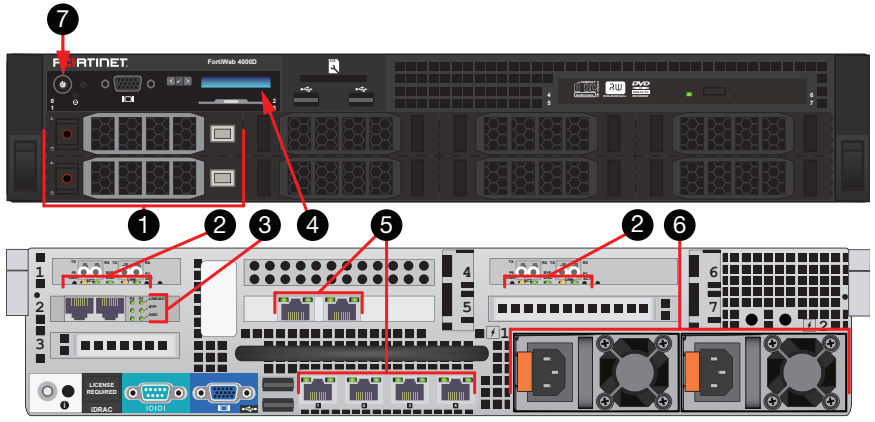
☒在注☒以后才能得到技☒支持，☒件升☒，及FortiGuard最新威☒防☒

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

Ports & LEDs



#	Interface	Type	Protocol	Description
1	NMI			To output a kernel dump to the serial console CLI then reboot, insert a pin.
2	Video	VGA		Reserved for future use.
3	USB	USB-A	USB 2.0	Reserved for future use.
4	Flash Media	SD		Reserved for future use.
5	Optical Drive	SATA		Reserved for future use.
6	Ports 5 & 6, 11 & 12	Fiber optic (SR, SX)	10 or 1 Gigabit Ethernet	Connections to your network & the Internet. Port pairs wired for bypass/fail-open or disconnect upon power loss.
	7 & 8	RJ-45	Gigabit Ethernet	
7	PCIe Slots	PCIe		Reserved for future use.
8	Ports 1 - 4, 9 & 10	RJ-45	Gigabit Ethernet	Connections to your network & the Internet. Port1 default: https://192.168.1.99
9	Hard Drives	SATA		Two 2TB hot swappable hard drives. 6 additional hard drive slots.
10	iDRAC7 Ent.			Reserved for future use. Disabled.
11	Console	RJ-45	RS-232 serial	Connection to the management computer. 9600 bps access to the CLI.
12	Power (Redundant)			100 - 240 V 750W AC 60 - 50 Hz 4 - 2 A



#	LED	State	Description
1	Hard Drives	Green	Hard drive is online.
		Flashing Amber 4 times/second	Hard drive has failed. **Note:** If a RAID failure halts the booting process, press any key to continue booting, or press C to load RAID configuration utility.
		Flashing Green, Amber, and Off	RAID predicts hard drive will fail.
		Flashing Green 2 times/second	Hard drive is rebuilding.
		Off	Hard drive is ready to insert or remove.
2	Ports 5 & 6, 11 & 12 Link (“LNK”)	Blue	10 or 1 Gbps link detected.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Network Activity (“ACT”)	Flashing Green	Port is transmitting & receiving data.
		Off	Port is not transmitting/receiving, or power lost.
	Bypass (“BYP”)/ Disconnect (“DSC”)	Green	Bypass/fail-open is active.
		Yellow	Disconnect is active.
		Off	Port pair is operating normally (no bypass/disconnect), or, if power is lost, bypass/disconnect is active.

#	LED	State	Description
3	Ports 7 & 8 Link/Network Activity (“LINK/ACT”)	Green	Link detected.
		Flashing Green	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Bypass (“BYP”)	Green	Bypass/fail-open is active.
		Off	Bypass/fail-open is off, or power lost.
	Disconnect (“DISC”)	Green	Disconnect is active.
		Off	Disconnect is off, or power lost.
4	Status	Blue	System is normal.
		Amber	System failure.
5	Ports 1 - 4, 9 & 10 Link/Network Activity	Flashing Green	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Speed	Green	1 Gbps link.
		Amber	Link is less than 1 Gbps.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
6	Power Supplies	Green	Appliance is receiving power.
		Flashing Amber/ Green	Power supplies are mismatched.
		Off	Power is not connected, or PSU failed.
7	Power Button	On	Appliance is powered on. **Do not power off without first halting the operating system. Failure to shut down properly may damage the disks and cause data loss.**
		Off	Appliance is powered off.

Dual CP8 ASIC chips located in PCIe slot 3 act as co-processors for SSL/ TLS acceleration.

Environmental specifications

- **Operating temperature** — 10 to 40°C (50 to 104°F) If this device is installed in a closed or multi-unit rack assembly, the rack’s ambient temperature may be greater than the room’s ambient temperature. Make sure the rack environment is compatible with the maximum rated ambient temperature (T_{ma}).
  Température ambiante élevée — 10 à 40 ° C (50 à 104 ° F) Si cet appareil est installé dans un cabinet fermé, la température ambiante du cabinet peut être supérieure à la température ambiante de la pièce. Assurez- vous que l’environnement dans le cabinet est compatible avec la température ambiante maximale (T_{ma}).
- **Storage temperature** — -40 to 65°C (-40 to 149°F)
  Température d’entreposage — -40 à 65° C (-40 à 149° F)
- **Humidity** — 20 to 90% non-condensing
  Humidité — 20 à 90% sans condensation
- **Operating altitude** — < 2250 m (7380 ft)
  Altitude opérationnelle — <2250 m (7380 pi)
- **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 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.
  Ventilation — Pour une installation dans un cabinet, assurez-vous que la ventilation nécessaire au fonctionnement de l’équipement n’est pas compromise. Pour une installation autonome, assurez-vous que l’appareil dispose d’au moins 2 pouces (5 cm) de dégagement de chaque côté pour permettre l’écoulement de l’air et un refroidissement adéquat.
- **Circuit overloading** — To avoid overloading, use the ratings on the label. Consider the equipment’s connection to the supply circuit and the effect that circuit overloading might have on current protection and supply wiring.
  Surtension — Pour éviter de surcharger le circuit d’alimentation, référez-vous aux notes sur l’étiquette de l’équipement. Envisagez l’effet que la surtension du circuit pourrait avoir sur la protection de surtension et le câblage d’alimentation.
- **Reliable earthing** — Make sure all rack-mounted equipment is grounded. This includes supply connections (e.g. power strips), not only direct connections to the branch circuit.
  Mise à la terre – Assurez-vous que tout l’équipement est mis à la terre. Ceci comprend les connexions d’alimentation (par exemple, les barres d’alimentation) en plus des connexions directes au circuit de dérivation.
- **Interference** — If possible, use Shielded Twisted Pair (STP) Ethernet cables instead of Unshielded Twisted Pair (UTP).
  Interférence — Si possible, utilisez des câbles Ethernet de paire torsadée blindée (STP) plutôt que de paire torsadée non blindée (UTP).

Safety

- **Mechanical loading** — To avoid personal injury or damage to the appliance, Fortinet recommends that 2 or more people together install the appliance into the rack. Balance the equipment to avoid uneven mechanical loading and tipping. Do not place heavy objects on the appliance.
  Installation – Pour éviter des blessures ou des dommages à l'appareil, Fortinet recommande que deux personnes ou plus installent ensemble cet équipement dans un cabinet. L'installation du matériel à l'intérieur de la baie doit être effectuée de façon à éviter toute situation dangereuse liée à une installation non conforme. Ne placez pas d'objets lourds sur l'appareil, celui-ci n'étant pas conçu pour soutenir un poids additionnel.
- **Grounding** — Disconnect power cables before servicing. Do not connect or disconnect cables during lightning; this may damage your device or cause personal injury. Connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. To prevent damage to your equipment, use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. For DC installations, a readily accessible UL Listed disconnect device (e.g. circuit breaker) with over current protection suitable for local code must be incorporated in the building installation wiring. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing. For your safety, qualified service personnel must permanently connect this terminal to the ground using a green-with-yellow conductor, minimum size #14 AWG.
  Mise à la terre — Débranchez les cordons de la source d'alimentation avant tout entretien. Ne pas brancher ou débrancher les câbles lors d'un orage afin de ne subir aucun dommage corporel et éviter d'endommager votre appareil. Assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Pour éviter d'endommager votre matériel, utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. En cas d'alimentation en courant continu (DC en anglais), un dispositif facilement accessible de déconnexion UL (par exemple, disjoncteur) avec protection contre les surintensités adapté à la réglementation locale doit être incorporé dans l'installation électrique du bâtiment. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.
- **Battery** — For devices that contain a battery, there is a risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries according to your local regulations.
  Batterie — Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales.
  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

Regulatory compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. 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.

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 Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de la classe A préscrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を 家庭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。ＶＣＣＩ－A

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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

China

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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.

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6. Limited Warranty.

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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.
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FortiWeb 4000D QuickStart Guide

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3rd Edition

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