WEB APPLICATION FIREWALL

FortiWeb™ 1000D

QuickStart Guide



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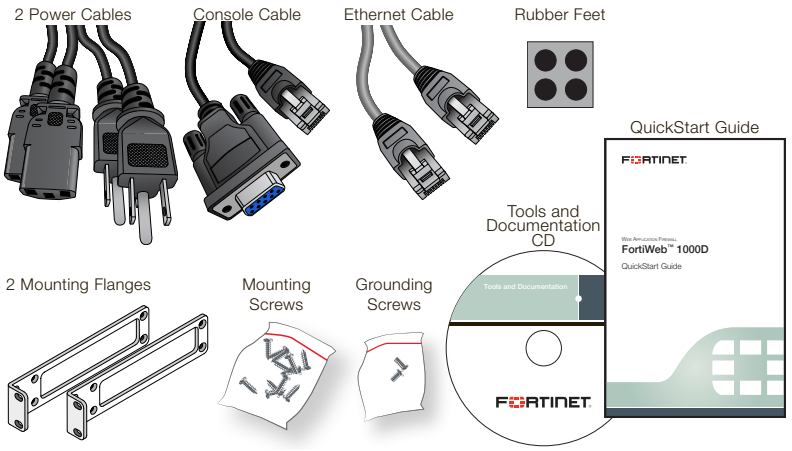
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Package contents

The box should contain:

- FortiWeb 1000D appliance
- FortiWeb 1000D QuickStart Guide
- Tools and Documentation CD
- 2 Power cables
- Ethernet cable
- SFP dust plugs (already inserted)
- Console cable
- 4 Rubber feet for desktop placement
- 2 Flanges for rack mounting
- 12 Screws for rack mounting
- 2 Screws for grounding



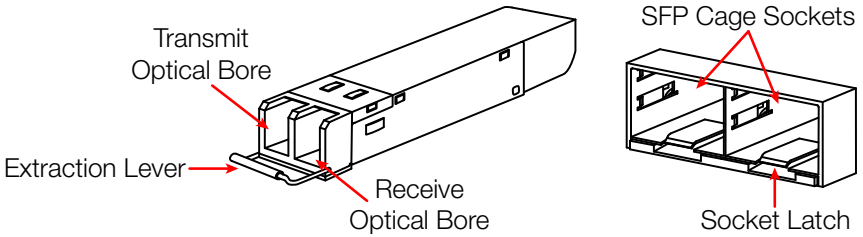


Installing SFP transceivers

If not already installed, install the SFP transceivers that will be used to connect your appliance to the network.

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

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

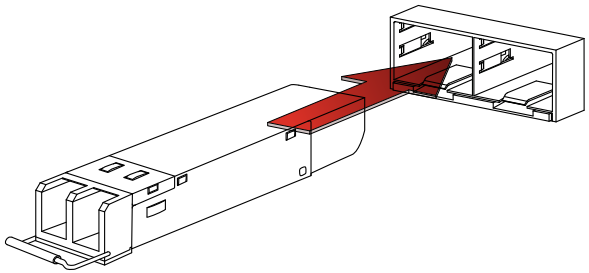


To install SFP transceivers

1. On the appliance's front panel, remove the caps from SFP cage sockets.
2. Position the SFP transceiver in front of the cage socket so that the extraction lever is level with the socket latch.

   Note: SFP cage socket orientation may vary. Verify that the SFP transceiver module is correctly oriented.
3. Holding the sides of the SFP transceiver, gently slide it into the cage socket.

   Caution: Do not force SFP transceivers into cage slots. Force can cause damage. 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 or rotate it, and try again.



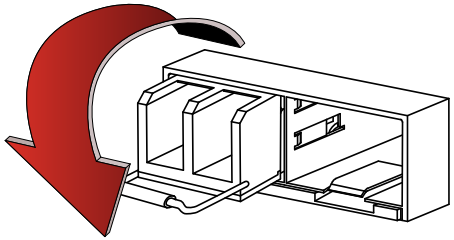
4. Press the transceiver firmly into the cage socket with your thumb until it clicks, indicating that it is latched.
5. Verify that the transceiver is latched: grasp the sides and trying to pull it out without lowering the extraction lever.

   If you can remove the transceiver, it was not latched correctly, and could become accidentally dislodged. Try again.

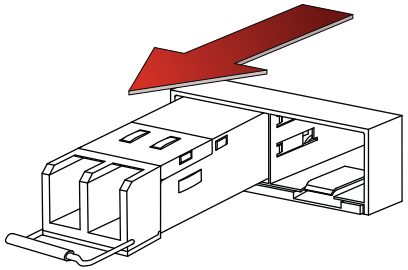
To remove SFP transceivers

1. Disconnect the fiber optic cable from the transceiver connector.
2. To prevent dust from entering the optical bores, insert clean plugs.
3. To eject the transceiver, pull the extraction lever out and down.

   Tip: Instead of using your finger, try a small flat-head screwdriver.



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



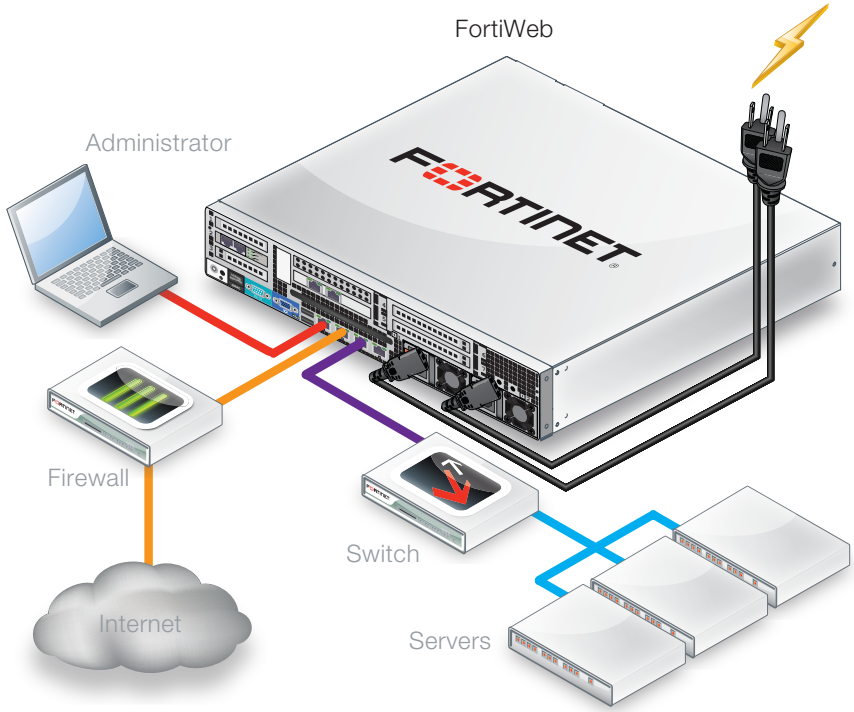
5. Replace the cap on the SFP cage socket.
6. Put the removed SFP transceiver into an anti-static bag.

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 1000D 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 de 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

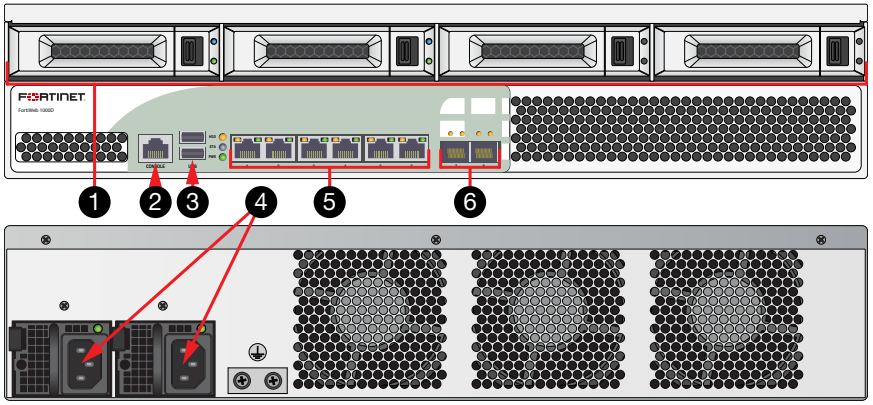
请马上注册

您的飞塔产品

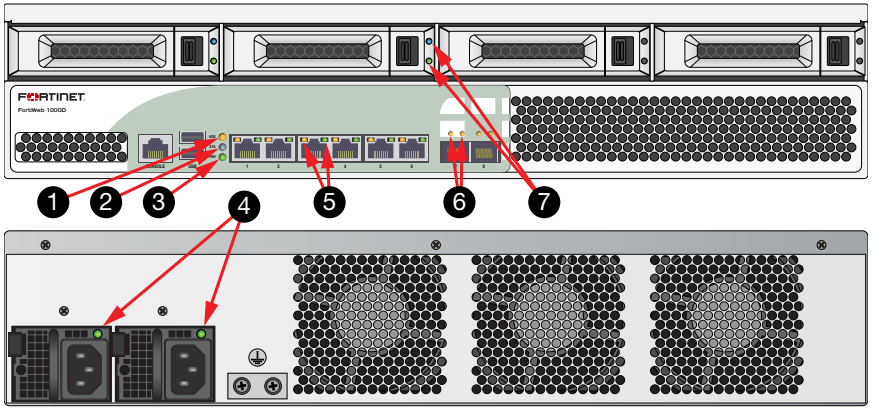
您在注册以后才能得到技术支持，软件升级，及FortiGuard最新威胁防护

https://support.fortinet.com/

Ports & LEDs



#	Interface	Type	Protocol	Description
1	Hard Drives	SATA		Two 2TB hot swappable hard drives. 2 additional hard drive slots.
2	Console	RJ-45	RS-232 serial	Connection to the management computer. 9600 bps access to the CLI.
3	USB	USB-A	USB 2.0	
4	Power (Redundant)			100-240 V 600W AC (300W each PSU) 50/60 Hz 5-3A
5	Ethernet Ports 1 - 2	RJ-45	Gigabit Ethernet	Connections to your network & the Internet. Port1 default: https://192.168.1.99
	Ethernet Ports 3 & 4, 5 & 6	RJ-45	Gigabit Ethernet	Connections to your network & the Internet. Port pairs wired for bypass/fail-open or disconnect upon power loss.
6	Ethernet Ports 7 & 8	SFP	Gigabit Ethernet	Connections to your network & the Internet. SerDes small form-factor pluggable (SFP) transceiver.



#	LED	State	Description
1	RAID Activity (“HDD”)	Flashing Amber	RAID read or write activity.
		Off	RAID is idle..
2	Status (“STA”)	Off	System is normal.
		Red	System failure.
3	Power (“PWR”)	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.

#	LED	State	Description
4	Power Supplies	Green	PSU is supplying power to the appliance.
		Flashing Green	PSU is functional, but not being used, such as when the power cable is attached but the OS is shut down.
		Red	PSU has failed, but the appliance is still receiving power from the other PSU.
		Flashing Red	Power is not connected to this PSU, but the appliance is still receiving power from the other PSU.
		Flashing Red & Green	PSU error such as voltage mismatch or minor failure.
		Off	Power is not connected to any PSU, or all PSUs have failed.
5	Ports 1 - 6 Network Activity/Link (Left)	Amber	Port is idle.
		Flashing Amber	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Network Speed/Link (Right)	Green	1 Gbps link.
		Amber	100 Mbps link.
		Off	10 Mbps link, or link not detected. (Cable may be disconnected/damaged, or power lost.)
6	Ports 7 - 8 Network Activity/Link (Left)	Amber	Port is idle.
		Flashing Amber	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Network Speed/Link (Right)	Amber	1 Gbps link.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
7	Hard Drive Power (Top)	Blue	Hard drive is receiving power.
		Off	Hard drive is disconnected.
	Status (Bottom)	Flashing Green	Hard drive read or write activity.
		Red	Hard drive has failed.
		Off	Hard drive is idle.

Dual CP8 ASIC chips act as co-processors for SSL/TLS acceleration.

Cautions & warnings

Environmental specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

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 (Tma) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

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.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

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.
Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

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).
Fiabilité de la mise à la terre – Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

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

Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.
Avertissement: Un dispositif de déconnexion facilement accessible doit être incorporé dans l'installation électrique du bâtiment.

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 SR814.013 applies to batteries.
Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 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: Disconnect power supply cords before servicing
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.
Mise à la terre — Pour éviter d'endommager votre matériel, 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. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. 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.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit a une borne de mise à la terre séparé sur le dos de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 14 AWG et la connexion doit être installé par un personnel qualifié.

Regulatory notices

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 édicte 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.

CE

Product Safety Electrical Appliance & Material (PSE) – Japan

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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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Korea Certification (KC) – Korea

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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FortiWeb 1000D QuickStart Guide

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6th Edition

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