



FortiDDoS 200F

Product Registration

Thank you for purchasing a Fortinet FortiDDoS. To access:

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

Please register your Fortinet FortiDDoS:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>



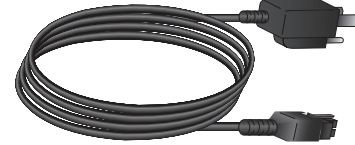
September 10, 2021

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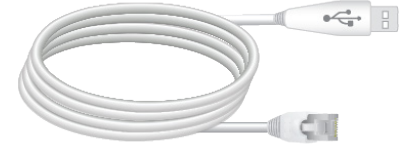
Box Includes



FortiDDoS 200F Device



2x Power Cable



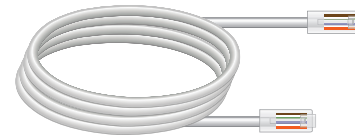
Console Cable
(USB TO RJ45)



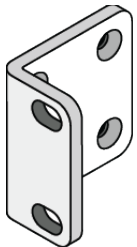
QuickStart Guide



Sliding Rail Kit with
Screw Pack



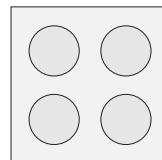
Ethernet Cable



2x Rack Mount Ears

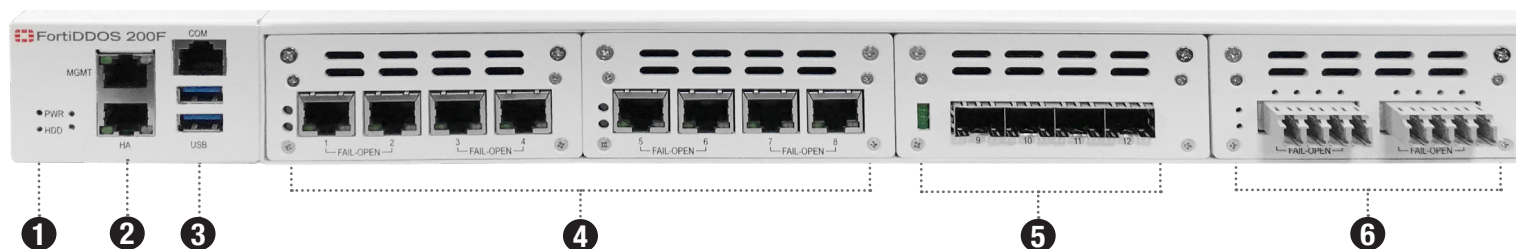


6x Bracket Screws



4x Rubber Feet

Front Panel



1 System LED Indicators

HDD

● **Flashing Green:** Hard Drive in use

PWR

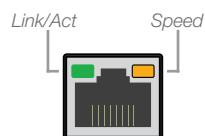
● **Green:** Power is on

● **Off:** Power is off

2 Management Port (top) & HA Port (bottom) (GE RJ45) HA default on bottom port but simultaneous HA and MGMT allowed on either port if required

Link/Act
■ **Green:** Link established
■ **Flashing Green:** Data activity
■ **Off:** No link established

Speed LED
■ **Amber:** Connected at 1000Mbps
■ **Green:** Connected at 100Mbps
■ **Off:** Connected at 10Mbps or not in use



3 Console (RJ45 Serial) CLI management port & USB (3.0) for future use

4 Ports 1 to 8 (RJ45) GE network connections

Status indicators - see status indicators under 2

Bypass indicators (left of ports 1, 5, 13) - Top for 1st pair, bottom for 2nd pair

● **Green:** Normal mode - All traffic handled by system processors

● **Red:** Open/bypass mode - All traffic bypassed without handling by system.

Note: will only light during boot while bypassed or if forced into bypass by CLI

● **Off:** LED will be off during power failure. If system is configured for Fail-Open, traffic will pass through the system even when LED is off. If system is configured for Fail-Closed, traffic will be blocked.

5 Ports 9 to 12 (SFP) 1Gbps SFP network connections

Status indicators (left of port 9)

■ **Green:** Link established

■ **Flashing Green:** Data activity

■ **Off:** No link established

6 Ports 13 to 16 (LC) SR/MM LC network connections with internal GE/1Gbps optical transceivers

Bypass indicators (left of port 13) - see Bypass indicators under 5

Status indicators (for each port, top left - Link/Act; top right - Speed LED)

Link/Act
■ **Green:** Link established
■ **Flashing Green:** Data activity
■ **Off:** No link established

Speed LED
■ **Amber:** Connected at 1Gbps
■ **Off:** Not in use

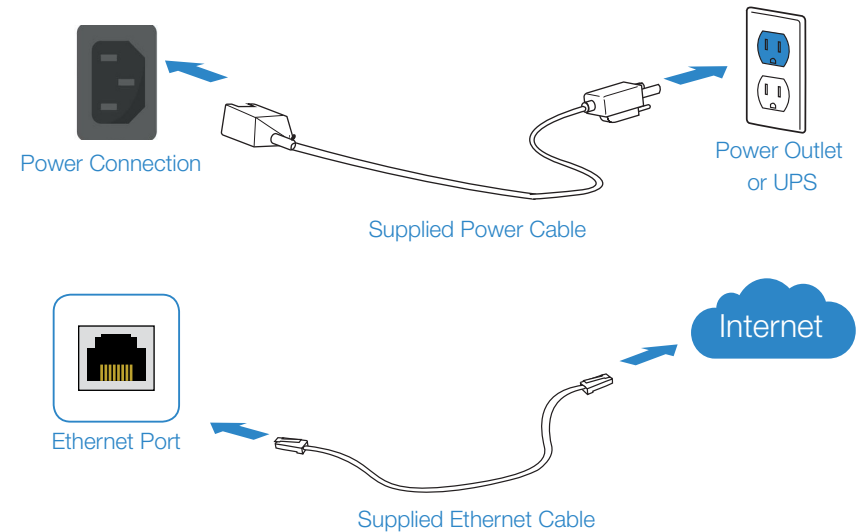
Rear Panel



- ❶ Grounding screws
- ❷ Power switch
- ❸ Redundant Power Supply 100-240V AC, 50-60Hz, 5-2.5A
- ❹ Power Alert Disable Button

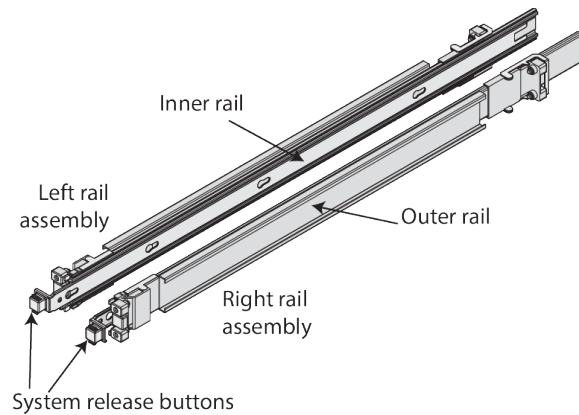
Basic Connections

Plug in your device to a power outlet using the provided power cable and connect the Internet to any port using the provided Ethernet cable.

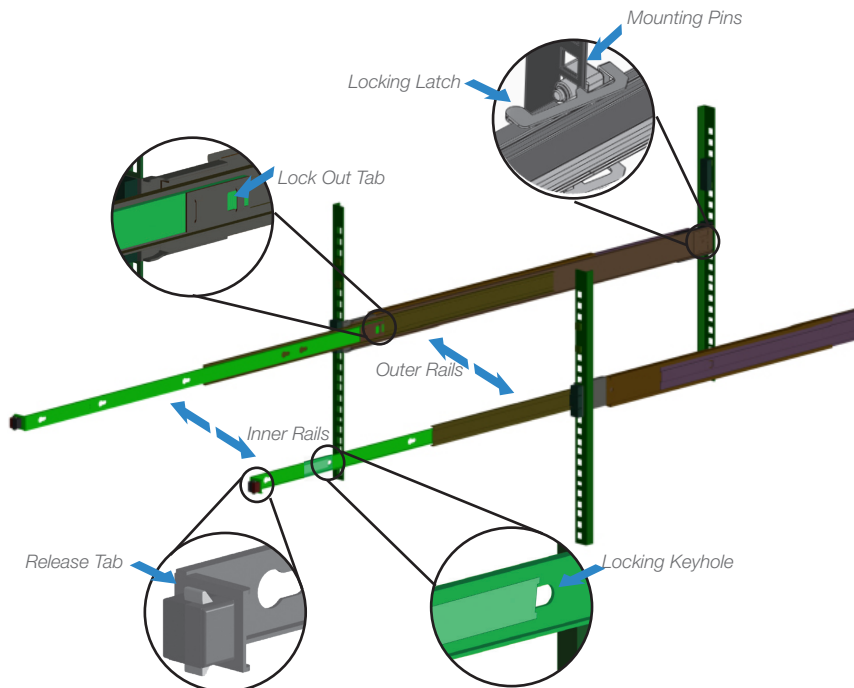


Note: We recommend connecting your device to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

Rack Installation

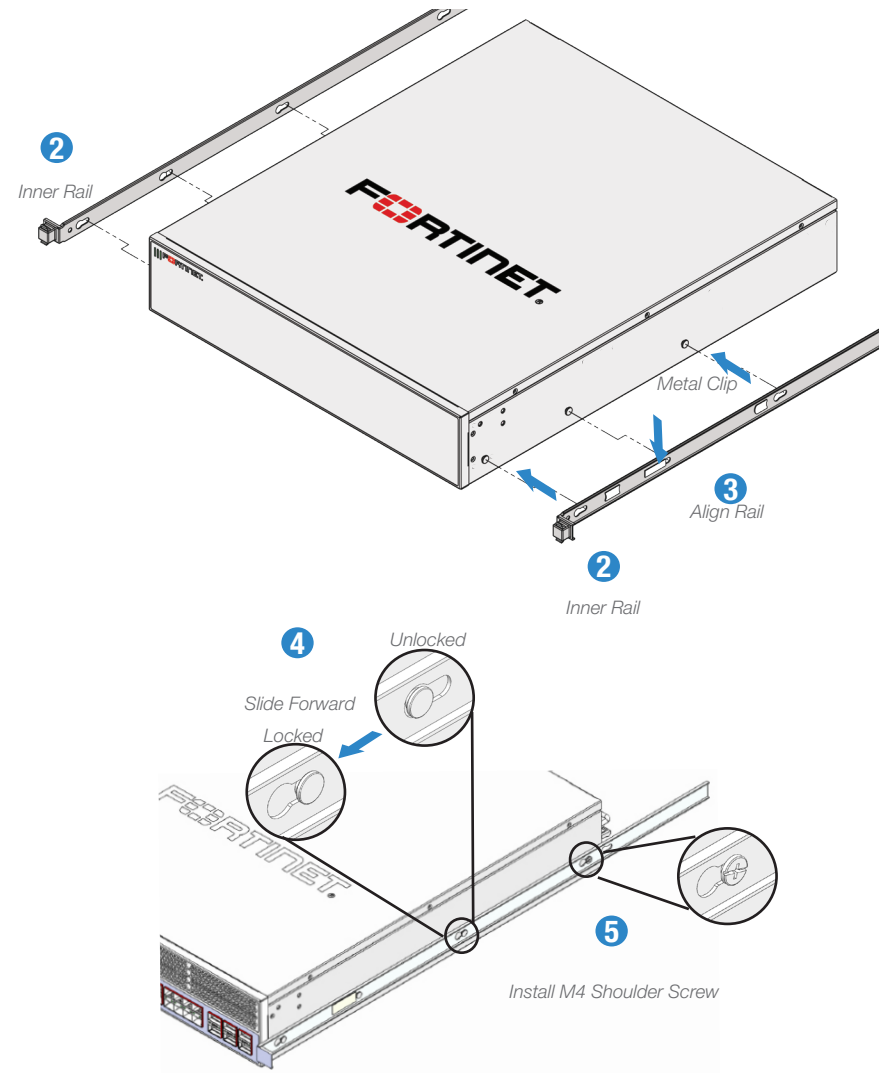


- The rail kit includes a left and a right rail assembly
- Each rail assembly includes an inner rail, a middle rail, and an outer rail
- The inner rail has locking keyholes used to secure the rail to the appliance
- The inner rail rear end has a lock out tab which slides into the middle rail
- The middle rail is in the outer rail and used to guide the inner rail into the outer rail
- The outer rail has front and rear mounting pins that push into to the rack holes
- The outer rail also has front and rear locking latches to secure the rail to the rack



Attach the Inner Rails to the Appliance

1. Detach the inner rail from the rail assembly by pressing the lock out tab
2. Place an inner rail against a side of the appliance
3. Align the inner rail keyholes with the appliance pins
4. Slide the rail towards the front of the appliance until the metal clip locks into place
5. For inner rails with 5 keyholes and a chassis with 3 pins and a thread hole, use the provided M4 shoulder screw to secure the rail to the appliance
6. Repeat steps 1 to 5 for the remaining inner rail



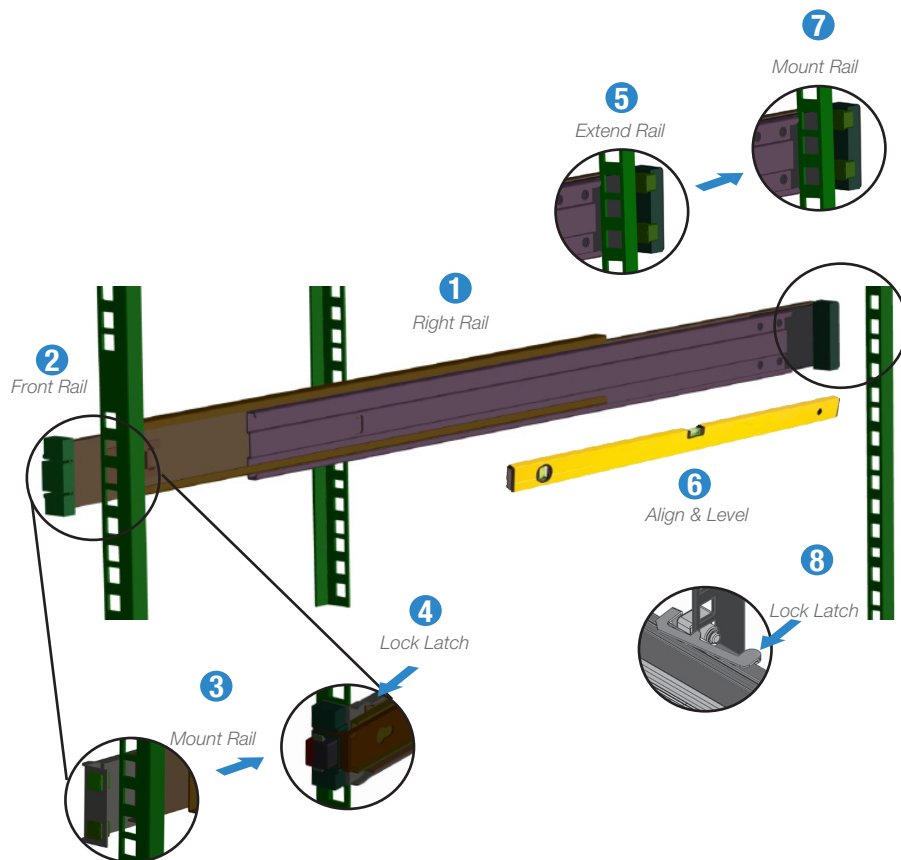
Attach the Outer Rails to the Rack

Front Outer Rail

1. Place an outer rail against a side of the rack
2. Align the front outer rail with the front of the rack
3. Push the front outer rail mounting pins into the rack post holes
4. Lock the locking latch to safely secure the front outer rail to the post

Rear Outer Rail

5. Extend the rear outer rail just past the rack post
6. Level the rail and align the mounting pins
7. Push the rear mounting pins into the rack post holes
8. Lock the locking latch to safely secure the rear outer rail to the post
9. Repeat steps 1 to 8 for the remaining outer rail



Install the Appliance

Safety Precautions

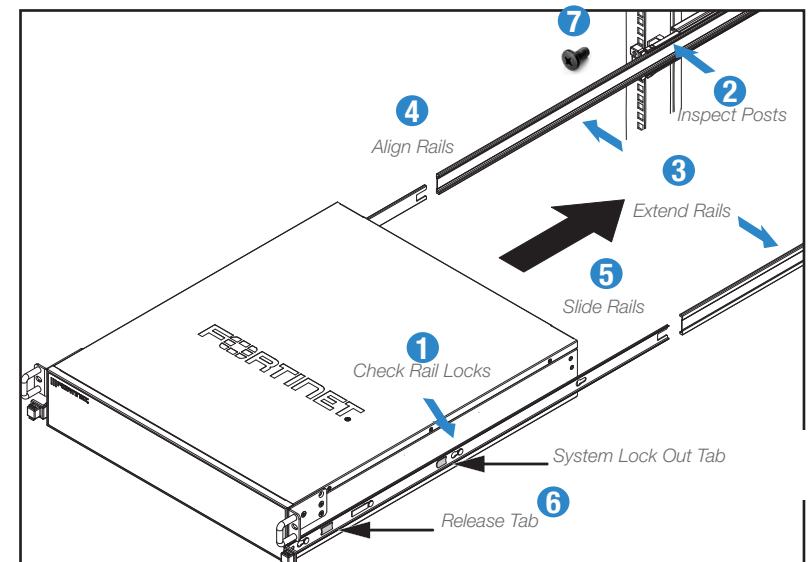
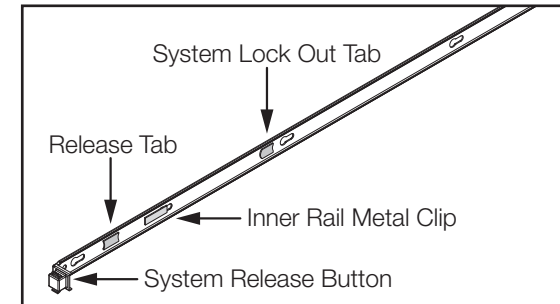
1. Check that the inner rails are secured to the appliance
2. Inspect that the rack posts and outer rails are secured and level

Rail Installation

3. Slide the middle outer rails forward until they fully extend and lock into place
4. Using a lifting device, lift the appliance and align the inner rails with the middle rails
5. Slide the appliance and inner rails into the middle rails until there is a stop

System Lock

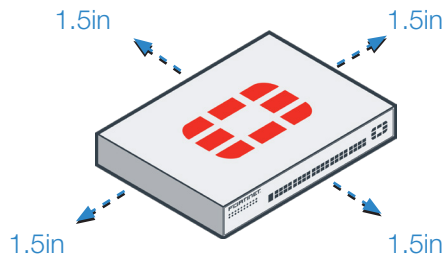
6. Apply even pressure and slide the release tabs outward while sliding the appliance all the way into the rack until the system release tabs click and lock into position
7. Use four rack screws (not provided) to secure the appliance to the rack



Desktop Installation

You can also install this device as a desktop unit.

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

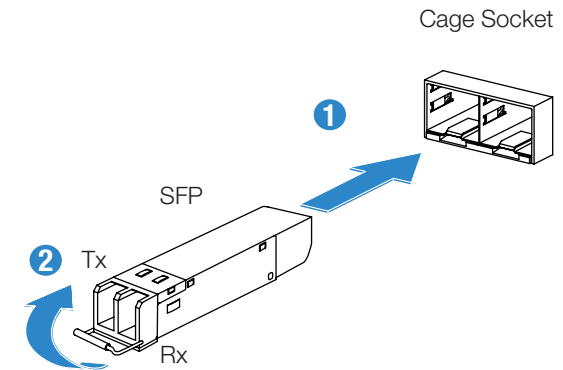


3. Plug in the provided power cables into the rear of the unit and then into a grounded electrical outlet or separate power source

SFP Installation

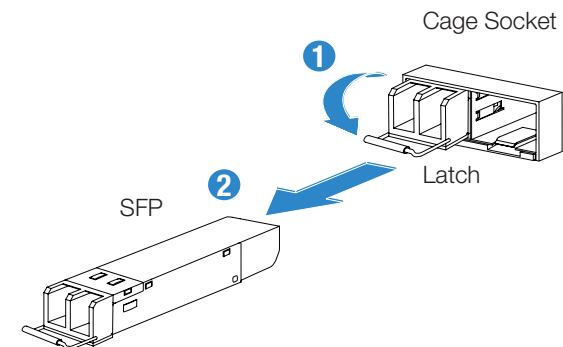
To install the SFP transceivers:

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



To remove the SFP transceivers:

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



Connecting to FortiDDoS

To configure FortiDDoS for your network, connect to either its web UI or serial console port.



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.



Local Setup

B Command Line Interface via Console Port

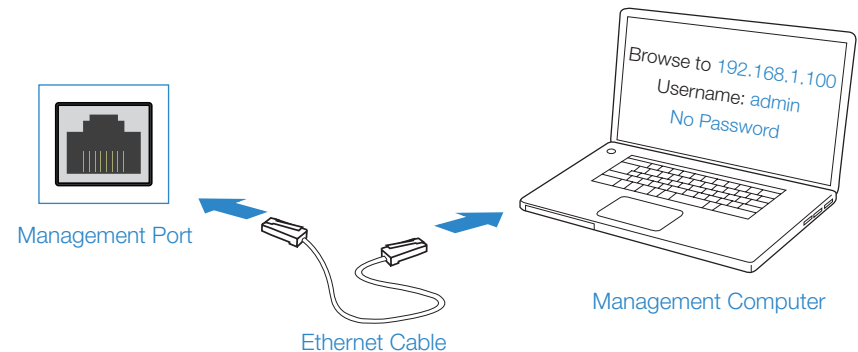
An alternate configuration tool from the web-based manager that uses a [terminal emulation](#) application to [type commands](#) or upload batches of commands from a text file or [configuration script](#).

Note: It is strongly recommended that you do not cable the FortiDDoS traffic ports until you are finished basic setup such as NTP, Date and Time and traffic port settings. NTP and Date/Time settings may reboot the system, disrupting traffic. Incorrect traffic port settings may also interrupt your network.

When connecting traffic ports, Fortinet recommends that you use bypass ports 1-8 or 13-16 which provide bypass (Fail-Open) functionality. See the [FortiDDoS Handbook](#) for more deployment information.

FortiDDoS is positioned inline between the Internet and your network. Even-numbered Ports (2, 4, 6...) MUST connect to the Internet/ISP outside your network, while odd-numbered Ports (1,3,5...) MUST connect to your local network. Failure to connect correctly will result in faulty Traffic Statistics, Mitigation and Reporting.

A GUI



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

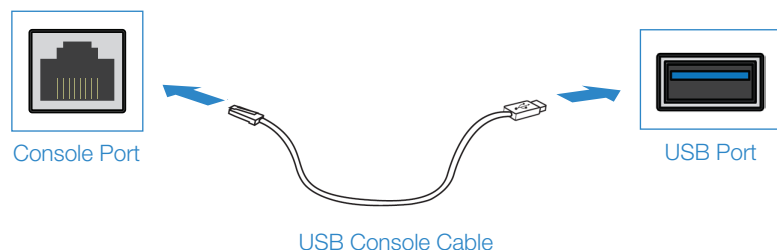
1. Connect a FortiDDoS [MGMT 1 port](#) to the [Management Computer](#) using the supplied [Ethernet cable](#)
2. Configure your computer to match the appliance's default [MGMT 1 subnet](#).

Static IP Address: [192.168.1.100](#)

Subnet Mask: [255.255.255.0](#)

3. Visit <https://192.168.1.99> in a web browser to connect to web UI
4. Log in with the username [admin](#) and [no password](#)
5. FortiDDoS will immediately request a [new password](#) since a blank/null password can no longer remain after first login. The password can be up to 16 characters long and include a-z, 0-9, _!@#\$\$%^&* and is case-sensitive.

B Console Port CLI



Requirements: Terminal emulator or a terminal server

1. Connect the [Console Port](#) with the [Console cable](#) to the [USB port](#) on 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. FortiDDoS will immediately request a [new password](#) since a blank/null password can no longer remain after first login. The password can be up to 16 characters long and include a-Z, 0-9, _!@#\$\$%^&* and is case-sensitive.

Shutting Down

Always properly shut down the FortiDDoS 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 FortiDDoS appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

CLI

1. Connect to the CLI via one of the following:
 - [SSH](#)
 - the [Console Port](#)
 - the [web UI](#) - click the [>](#) symbol at the top right to access the [CLI Console](#)

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. Turn off back-panel power switch and/or disconnect the power cables from the power supplies.

Resources

Refer to the following resources to continue your device setup.

Fortinet Customer Service & Support

Create a support account, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

<https://support.fortinet.com>

Fortinet Document Library

Up-to-date versions of Fortinet publications for the entire family of Fortinet products.

<http://docs.fortinet.com>

Training Services

Course descriptions, availability, schedules, and location of training programs in your area.

<http://www.fortinet.com/support/training.html>

Technical Discussion Forums

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues.

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

FortiGuard Threat Research and Response

Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.

<http://www.fortiguard.com>

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

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 (T_{ma}) 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 (T_{ma}) 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 tel qu'une situation dangereuse n'est pas liée 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.

Surintensité - 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

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:

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

CAUTION: Shock Hazard. Disconnect all power sources.

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

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

Attention: L'utilisation des commandes ou réglages ou l'exécution des procédures autres que celles spécifiées dans les présentes exigences peuvent entraîner la cause d'une exposition à un rayonnement dangereux.

Laser Class 1 optical transceiver shall be used only
L'émetteur-récepteur optique de classe 1 laser doit être utilisé uniquement

CLASS 1 LASER PRODUCT

ICE 60825-1:2014 transfer to FDA/CDRH
Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice No. 56, dated May 8, 2019.

Manufacturer - CASWELL, INC
8TH FL. 242 BO-AI ST, SHU-LIN DISTRICT, NEW TAIPEI, 238, TAIWAN

Manufacturing location - CASWELL, INC
8TH FL. 242 BO-AI ST, SHU-LIN DISTRICT, NEW TAIPEI, 238, TAIWAN

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 Regulations 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。

VCCI-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>

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地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

China

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