

FORTINET



FortiADC 5000F

QuickStart Guide

Product Registration

Thank you for purchasing a Fortinet FortiADC. To access:

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

Please register your Fortinet FortiADC:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

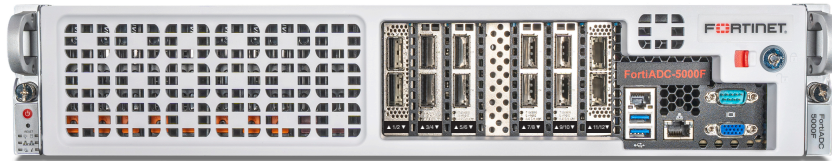
<http://support.fortinet.com>



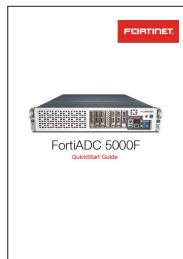
June 25, 2020

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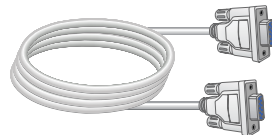
FortiADC 5000F



QuickStart Guide



2x Power Cables



1x Console Cable
(DB9 to DB9)



1x Ethernet Cable



1x Sliding Rail Kit
(2x Rails and 12x Rail Screws)

Optional SFP Transceiver Modules

40/100 GE QSFP+/QSFP28 to SFP+/SFP28, 4xLC Breakout, FG-TRAN-QSFP-4SFP-5

40 GE QSFP+ Transceivers, Short Range, FN-TRAN-QSFP+SR

40 GE QSFP+ Transceivers, Long Range FN-TRAN-QSFP+LR

100 GE QSFP28 Transceivers, Short Range, FN-TRAN-QSFP28-SR

100 GE QSFP28 transceivers, Long Range FN-TRAN-QSFP28-LR



Front Panel - Interface Guide



1

1 System Interface

- Power Button
- Reset Button
- System Status Indicators (see page 6)

2 Hard Drive Slot

- Solid State Drive (3.4TB)

3 Ports 1 & 2 (100Gbps) QSFP28 ports

4 Ports 3 to 10 (40Gbps) QSFP+ ports, 1 QSFP+ port can split into 4x 10Gbps ports

5 Ports 11 & 12 (100Gbps) QSFP28 ports

6 MGMT Port (RJ45) default IP 192.168.1.99

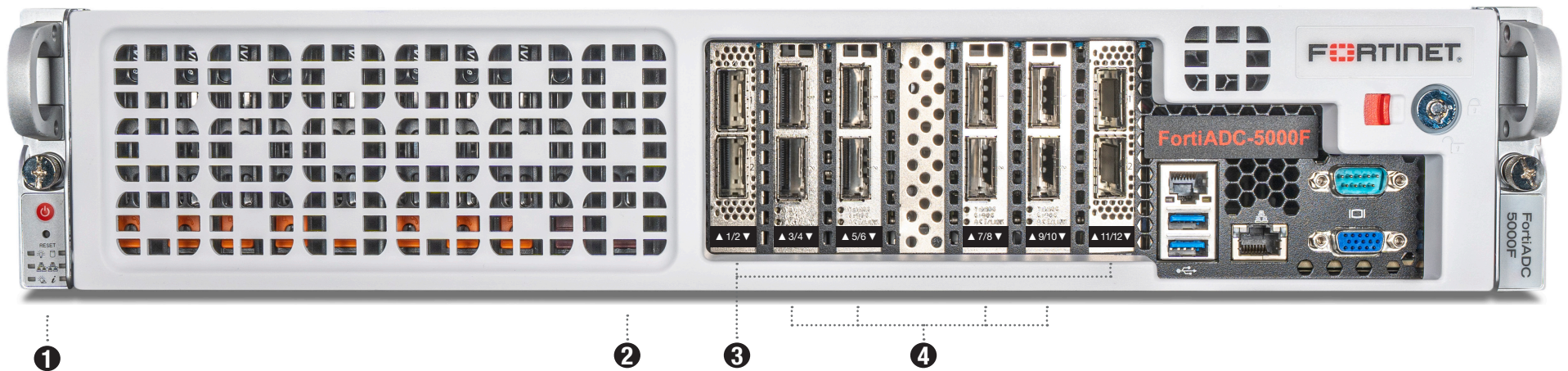
USB 3.0 Ports (USB A) available for use

7 IPMI Port (RJ45) not in use

8 Console Port (DB9) CLI management connection

VGA Port (DB15) not in use

Front Panel - Status Indicators



1 System Status LED indicators

💡 Power Status

- **Green:** Power is on
- **Off:** Power is off

💾 Hard Disk Status (Not in use)

ℹ System Status

- **Red:** System overheated
- **Flashing Red (1 sec):** Fan failure
- **Flashing Red (4sec):** Power failure
- **Off:** System operation normally

🌐 Ethernet Port Status

- **Green:** Link established
- **Flashing Green:** Data activity
- **Off:** No link established

⚡ Power Failure Status

- **Red:** Power supply failure
- **Off:** Power supply operating normally

2 Hard Drive Activity

- **Blue:** Power on
- **Flashing Blue:** Data activity
- **Off:** No link established

📦 Hard Drive Status

- **Red:** Hard drive failure
- **Flashing Red (1 sec):** Rebuilding
- **Off:** Hard drive operating normally

3 QSFP28 LED Activity (Ports 1 & 2, 11 & 12)

- **Green:** 100Gb link established, no activity
- **Flashing Green:** 100Gb data activity
- **Flashing Amber:** Link error
- **Off:** No link established

4 QSFP+ LED Activity (Ports 3 to 10)

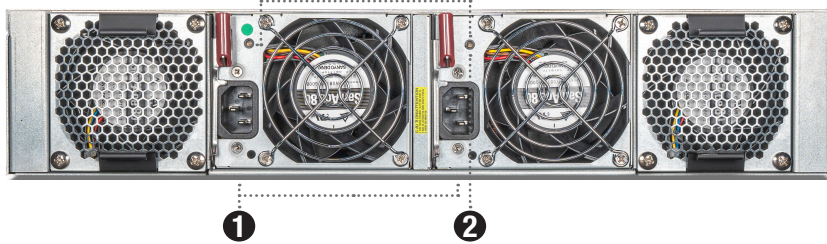
- **Green:** 40Gb link established
- **Flashing Green:** 40Gb data activity
- **Amber:** 10Gb link established
- **Flashing Amber:** 10Gb data activity
- **Off:** No link established

QSFP+ LED Link (Ports 3 to 10)

- **Green:** 40Gb link speed
- **Amber:** 10Gb link speed

Note: 1 QSFP+ Port can split into 4x 10Gbps ports via a breakout cable

Rear Panel - Power Supplies

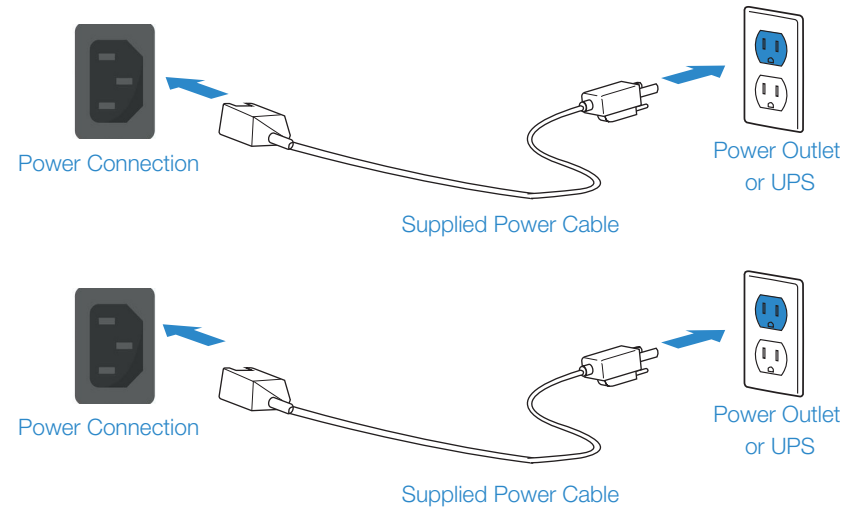


1 Redundant Power Supplies 100 to 240V AC, 12.0A Max, 50/60Hz

2 Power Supply Indicator

- **Green:** Power supply operating normally
- **Flashing Green (1 sec):** AC input but in Active-Standby mode
- **Amber:** AC input power failure; second power supply operating normally
- **Flashing Amber (1 sec):** High temp, high power, high current or slow fan
- **Off:** No AC input

Basic Connections

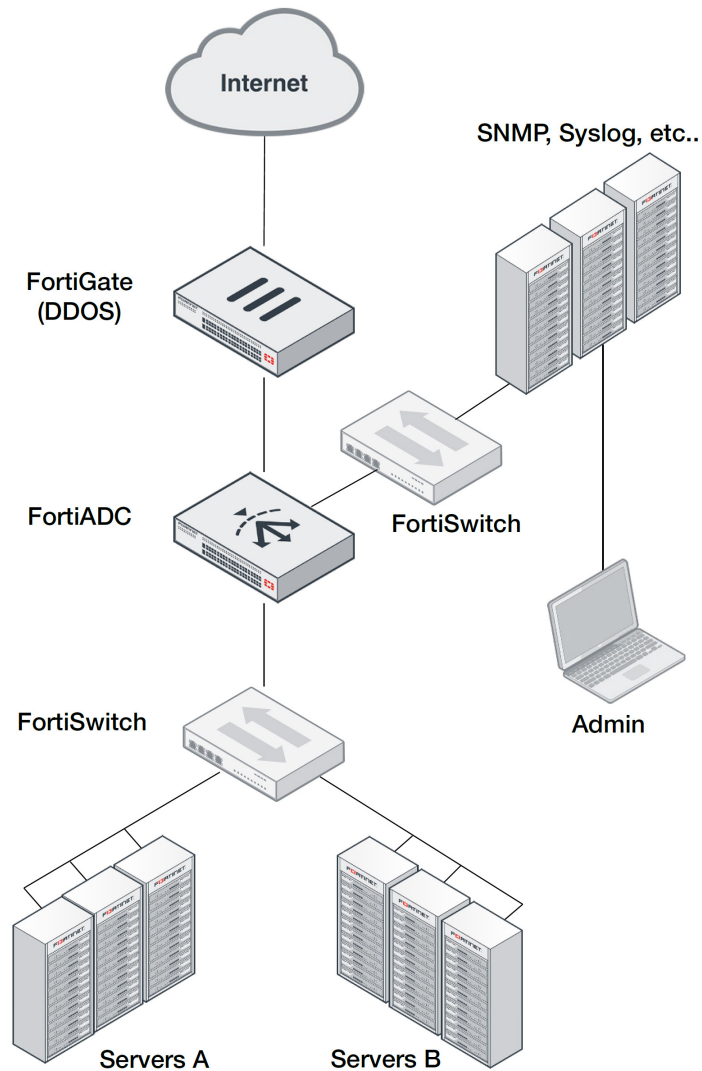


Plug in your device to a [power outlet](#) using the provided [power cables](#).

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

Deployment

Fully integrate with Fortinet's Security Fabric to optimize network visibility, load balancing, and user authentication with your new FortiADC.



Setup Options

Set up your device locally using the GUI or CLI. Choose an option to complete your setup, then configure your device.



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.

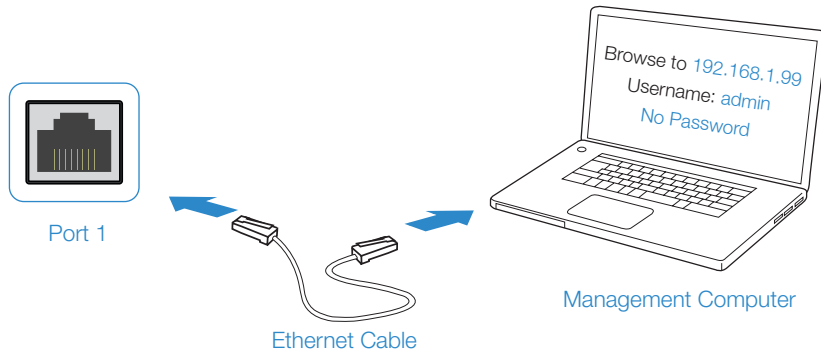


Local Setup

B Command Line Interface (CLI)

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](#).

A GUI

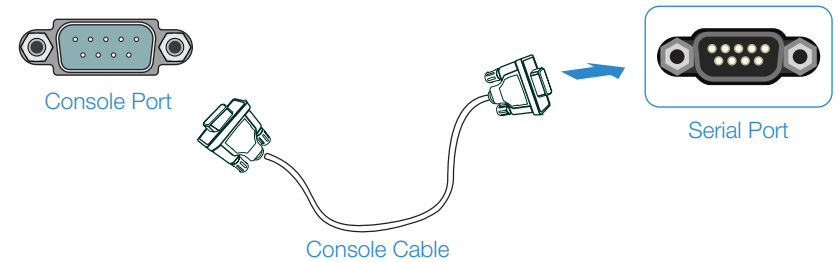


1. Connect **Port 1** to the **Management Computer** using the supplied **Ethernet cable**
2. Enable **DHCP** or set the Management Computer's **IP** and **subnet** to:

Static IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

3. Visit 192.168.1.99 in a web browser
4. Log in with username **admin** and **no password**
5. You can now configure your FortiADC

B CLI



1. Connect the **Console Port** with a **console cable** to the **Serial 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. You can now configure your FortiADC

Basic Settings

Please refer to the admin guide found on docs.fortinet.com for detailed instruction on configuring your FortiADC.

Basic Network Settings

1. Once you have installed your FortiADC and configured your management interface, we recommend setting the following:

- ✓ [Administrative password](#)
- ✓ [System time and date](#)
- ✓ [Network interfaces](#)
- ✓ [DNS](#)

2. Test the [connectivity](#) between devices

3. [Register](#) your product, if you haven't already

4. Install your [license](#) and update the [firmware](#)

5. Configure a basic [load balancing policy](#)

6. [Test the deployment](#) with a load to verify the system behavior

7. [Back up](#) your configuration to have as a restore point

Resources

Refer to the following resources to continue your FortiADC 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.

<https://docs.fortinet.com>

Training Services

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

<https://www.fortinet.com/support-and-training/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.

<https://fortiguard.com>

Cautions and Warnings

Environmental Specifications

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 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.

Surtenison - 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

Moving parts – Hazardous moving parts. Keep away from moving fan blades.

Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.

Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

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: 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.

Regulatory Compliance

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

V C C I – A

Product Safety Electrical Appliance & Material (PSE) – Japan

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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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China

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It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full. Fortinet provides no warranty for any beta, donation or evaluation Products. Fortinet warrants that the hardware portion of the Products ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): (a) a three hundred sixty-five (365) day limited warranty for the Hardware products; (b) for FortiAP and Meru AP indoor Wi-Fi access point Hardware products, the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date Hardware; (c) for FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series, the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date Hardware. Fortinet's sole obligation shall be to repair or offer replacement Hardware for the defective Hardware at no charge to the original owner. 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