



Install Guide

**FortiDB
Version 3.2
(Appliance)**

FORTINET™

www.fortinet.com

FortiDB Install Guide
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CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type.
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Introduction

FortiDB is an automated database and information risk management solution to protect business critical information for enterprise computing environment. It provides a comprehensive vulnerability assessment, monitoring, and auditing solution that address database security issues

This chapter introduces you to the FortiDB unit and outlines additional resources for further reading.

This chapter contains the following topics:

- [Register your FortiDB system](#)
- [About this guide](#)
- [FortiDB documentation](#)
- [Customer service and technical support](#)

Register your FortiDB system

Before you begin, take a moment to register your FortiDB system by visiting <http://support.fortinet.com> and select Product Registration.

To register, enter your contact information and the serial numbers of the FortiDB unit that you or your organization have purchased. By registering your FortiDB system, you will ensure your access to technical support and firmware updates and patches.

About this guide

This guide describes how to set up, configure the FortiDB unit.

This document contains the following chapters:

- [Installing](#) - describes how to set up and install the FortiDB unit in your network environment.
- [Configuring](#) - describes how to configure the FortiDB system settings, such as system time, and system host.
- [Managing FortiDB Firmware](#) - describes how to upgrade the FortiDB firmware, using the web-based manager or CLI.

FortiDB documentation

The most up-to-date publications and previous releases of Fortinet product documentation are available from the Fortinet Technical Documentation web site at <http://docs.forticare.com>.

The following FortiDB product documentation is available:

- *FortiDB QuickStart Guide*
This document explains how to quickly install and set up the FortiDB unit.
- *FortiDB Administration Guide*
This document describes how to configure and manage the FortiDB Vulnerability Assessment and Monitoring and Auditing.
- *FortiDB User Guide*
This document describes how to use FortiDB Vulnerability Assessment and Monitoring and Auditing through FortiDB web-based manager.
- FortiDB online help
You can get online help from the FortiDB web-based manager. FortiDB online help contains detailed procedures for using the FortiDB web-based manager to configure FortiDB system.
- *FortiDB CLI Reference*
This document describes how to use the FortiDB CLI and contains a reference to FortiDB CLI commands.

Fortinet Tools and Documentation CD

All Fortinet documentation is available from the Fortinet Tools and Documentation CD shipped with your Fortinet product. The documents on this CD are current at shipping time. For up-to-date versions of Fortinet documentation, see the Fortinet Technical Documentation web site at <http://docs.forticare.com>.

Fortinet Knowledge Center

Additional Fortinet technical documentation is available from the Fortinet Knowledge Center. The knowledge center contains troubleshooting and how-to articles, FAQs, technical notes, and more. Visit the Fortinet Knowledge Center at <http://kc.forticare.com>.

Customer service and technical support

Fortinet Technical Support provides services designed to make sure that your FortiDB unit install quickly, configure easily, and operate reliably in your network.

Please visit the Fortinet Technical Support web site at <http://support.fortinet.com> to learn about the technical support services that Fortinet provides.

Installing

This chapter provides information on mounting and connecting the FortiDB unit to your network. This chapter includes the following topic.

- [Environmental Specifications](#)
- [Cautions and Warnings](#)
- [Mounting the FortiDB unit](#)
- [Powering on the FortiDB unit](#)
- [Powering off the FortiDB unit](#)

Environmental Specifications

The environment specifications for each FortiDB models are slightly different.

FortiDB-400B

- Operating temperature: 32 to 104°F (0 to 40°C)
- Storage temperature: -31 to 158°F (-35 to 70°C)
- Humidity 20 to 90% non-condensing
- 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 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

FortiDB-1000B

- Operating temperature: 50 to 95°F (10 to 35°C)
- Storage temperature: -40 to 149°F (-40 to 65°C)
- Humidity 5 to 95% non-condensing
- 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 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling

FortiDB-2000B

- Operating temperature: 50 to 95°F (10 to 35°C)
- Storage temperature: -40 to 149°F (-40 to 65°C)
- Humidity: 20 to 80% non-condensing
- 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 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling

Cautions and Warnings

Review the following cautions before installing your FortiDB unit.

Grounding

- Ensure the FortiDB unit is connected and properly grounded to a lightning and surge protector. 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 the FortiDB unit or personal injury.

Rack mount instructions

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 temperature. 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.

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).

Mounting the FortiDB unit

This section describes how to place or mount your FortiDB unit. The FortiDB unit can be placed on any flat surface, or mounted in a standard 19-inch rack unit.

When placing the FortiDB unit on any flat, stable surface, ensure the unit has adequate clearance on each side to ensure adequate airflow for cooling.

For rack mounting, use the mounting brackets and screws included with the FortiDB unit.



Caution: To avoid personal injury, you may require two or more people to install the FortiDB unit in the rack.

To install the FortiDB unit into a rack

- 1 Attach the rack-mount brackets to the side to the unit so that the brackets are on the front portion of the FortiDB unit. Ensure that the screws are tight and not loose.
- 2 Position the FortiDB unit in the rack to allow for sufficient air flow.
- 3 Line up the mounting bracket holes to the holes on the rack, ensuring the FortiDB unit is level.
- 4 Finger tighten the screws to attach the FortiDB unit to the rack.
- 5 Once you verify the spacing of the FortiDB unit and that it is level, tighten the screws with a screwdriver. Ensure that the screws are tight and not loose

Powering on the FortiDB unit

Use the following steps to power on the FortiDB unit.

To power on the FortiDB-400B unit

- 1 Connect the power cord to the back of the FortiDB unit.
- 2 Connect the power cable to a power outlet. The power will be automatically turned on.

To power on the FortiDB-1000B and 2000B unit

- 3 Connect the power cord to the back of the FortiDB unit.
- 4 Connect the power cable to a power outlet.
- 5 Turn on the power switch on the back of the unit to the on position.

Connecting to the network

Using the supplied Ethernet cable, connect one end of the cable to your router or switch, and connect the other end to port 1 on the FortiDB unit. After connecting the FortiDB unit to the network, you need to configure the network settings. For details how to connect and configure the network settings, please see [Configuring](#) chapter.

Powering off the FortiDB unit

When powering off the FortiDB unit, always shut down the unit using the following procedures before disconnecting the power supply. By not following this procedure, you risk damaging the FortiDB hard disk.

To power off the FortiDB unit

- 1 From the CLI, enter:

```
execute shutdown
```
- 2 Disconnect the power supply when the unit indicates it is safe to disconnect the power.

Configuring

The FortiDB unit ships with a factory default configuration. To configure the FortiDB unit onto the network, you need to change network interface IP addresses, add DNS server IP addresses, and configure basic routing.

This chapter describes how to connect to the network and configure the FortiDB unit. There are two ways you can configure the FortiDB unit: using the command line interface (CLI) and the web-based manager. This section will step through using both methods. If the FortiDB unit has not connected to the network, you need to use the CLI through the console port configure the network settings.

Connecting to the FortiDB unit to the network

There are two methods of configuring the FortiDB basic settings:

- Command line interface (CLI)
- Web-based manager

Connecting to the FortiDB unit through the Console

You can use terminal emulation software to connect to the command line interface (CLI) from any network that is connected to the FortiDB unit. This applies to all FortiDB models.

For all FortiDB models, you can also use the null-modem cable provided to connect to the FortiDB unit's console port.

The example below in this document assumes you will be using a HiperTerminal in Windows as the terminal emulation software.

To connect to the FortiDB Command Line Interface

- 1 Use a null-modem cable to connect the serial port.
- 2 Verify that the FortiDB unit is powered on.
- 3 On your management computer, start a HyperTerminal.
- 4 On Connection Description, enter a Name for the connection, and select OK.
- 5 On Connect To, from Connect using, select the communications (COM) port where you connected the FortiDB unit.
- 6 Select OK.
- 7 Select the following Port settings and select OK.

Bits per second	9600
Data bits	8
Parity	None
Stop bits	1
Flow control	None
- 8 Press Enter to connect to the FortiDB CLI.
The login prompt appears.
- 9 Type a valid administrator account name (`admin`).

- 10 Type the password (fortidb1!\$ for default) and press Enter.
- 11 After connecting to the CLI, you can configure the unit IP address, DNS server IP address, and default gateway to connect the FortiDB unit to the network.

To configure the network settings using the CLI

For details about the CLI, refer to the *CLI Reference*.

- 1 Set the IP address and netmask of the LAN interface:

```
config system interface
  edit <port>
    set ip <ip_address> <netmask>
    set allowaccess (http https ping ssh telnet)
  end
```

where:

<port> can be one of port1- port4.

<ip_address> is the interface IP address.

<netmask> is the interface netmask.

Sample Command:

```
config system interface
  edit port1
    set ip 192.168.100.159 255.255.255.0
    set allowaccess http https ping ssh
  end
```

- 2 Set the primary and optionally the secondary DNS server:

```
config system dns
  set primay <dns-server_ip>
  set secondary <dns-server_ip>
end
```

where:

<dns-server_ip> is the primary or secondary DNS IP server address.

Sample Command:

```
config system dns
  set primary 65.39.139.52
  set secondary 65.39.139.62
end
```

- 3 Set the default gateway:

```
config system route
  edit <seq_num>
    set device <port>
    set gateway <gateway_ip>
  end
```

where:

<seq_num> is an unused routing sequence number starting from 1 to create a new route.

<port> is the port used for this route.

<gateway_ip> is the default gateway IP address for this network.

Sample Command:

```
config system route
  edit 1
    set device port1
    set gateway 172.30.62.254
  end
```

4 Set a network protocol (NTP) server:

```
config system ntp
  set server <server_ip>
  set status (enable | disable)
end
```

where:

<server_ip> is the IP address or fully qualified domain name of the NTP server.

Sample Command:

```
config system ntp
  set server 172.30.62.81
  set status enable
end
```

Using the web-based manager

After you connect the FortiDB unit to the network and configure the network settings properly, you can display the FortiDB web-based manager using a browser. The web-based manager provides a GUI interface to configure and administer the FortiDB unit.

You can configure and manage the FortiDB unit using HTTP or a secure HTTPS connection from any computer running Internet Explorer or Firefox.

Configuration changes made with the web-based manager are effective immediately, without interrupting service. For all FortiDB models, use the following procedure to connect to the web-based manager for the first time.

To connect to the web-based manager, you need

- Ethernet connection between the FortiDB unit and management computer.
- Web browser -- Internet Explore 6 or higher, or Firefox on the management computer.

To connect to the web-based manager

- 1 Connect the Port1 interface of the FortiDB unit to the Ethernet port of the management computer.
- 2 Use a cross-over Ethernet cable to connect the devices directly. Use straight-through Ethernet cables to connect the devices through a hub or switch.

- 3 Configure the management computer to be on the same subnet as the FortiDB LAN interface.

To do this, configure system settings to set the IP address and netmask of the management compute using the CLI. For details about configuring system settings using the CLI, refer to [To configure the network settings using the CLI](#).

- 4 To access the FortiDB web-based manager, start the web browser and browse to `http://<ip_address>/fortidb/`
- 5 Type `admin` in the Name field and `fortidb1!$` as an initial password, and select Login.

After connecting to the web-based manager, you can configure or modify the FortiDB unit IP address, DNS server IP address, and default gateway to connect the FortiDB unit to the network.

To configure the FortiDB using the web-based manager

- 1 In the web-based manager, go to **Appliance > Network > Interface**.

- 2 Select the Modify icon for Port1.

- 3 Enter the IP address and netmask including the following options:

Enable Select to enable the port for network communications.

Device IP/Netmask Enter the IP address and netmask for the port.

Access Select the types of administrative access permitted on this interface.

HTTP - Allow HTTP connections to the web-based manager through this interface. HTTP connections are not secure and can be intercepted by a third party.

HTTPS - Allow secure HTTPS connections to the web-based manager through this interface.

PING - Interface responds to pings. Use this setting to verify your installation and for testing.

SSH - Allow SSH connections to the CLI through this interface.

Telnet - Allow Telnet connections to the CLI through this interface. Telnet connections are not secure and can be intercepted by a third party.

- 4 Go to **Appliance > Network > DNS**.

- 5 Enter the primary DNS server IP address, secondary DNS server IP address (optional).

- 6 Go to **Appliance > Network > Routing**.

- 7 Enter the following options:

Destination IP/Mask Enter the destination IP address and netmask for the routing.

Gateway Enter the default gateway IP address.

Interface Select the port number for this routing.

- 8 Select Save.



Note: If you change the IP address of the interface you are connecting to, you must connect through a web browser again using the new address. Browse to `https://` followed by the new IP address of the interface. If the new IP address of the interface is on a different subnet, you may have to change the IP address of your computer to the same subnet.

Managing FortiDB Firmware

Fortinet periodically updates the FortiDB firmware to include enhancements, and pre-defined policy updates. After you have registered your FortiDB unit, FortiDB firmware is available for download at [http:// support.fortinet.com](http://support.fortinet.com).

Only the FortiDB administrators, whose access profiles contain system configuration read and write privileges, and the FortiDB admin user can change the FortiDB firmware.

This topic explains:

- [Backing Up Your Data and Configuration](#)
- [Upgrading FortiDB Firmware using the Web-based Manager](#)
- [Upgrading FortiDB Firmware using the CLI](#)
- [Installing Firmware using Boot Loader Menu](#)

Backing Up Your Data and Configuration

Before upgrading the FortiDB firmware, it is good practice to backup your configuration information and logs stored on the hard disk in the event something goes wrong during the upgrade.

Backup the FortiDB configuration to a local computer using the web-based manager or the CLI before performing any firmware upgrade.

This topic describes how to backup up your data and current configuration using the CLI. You will need an FTP server to back up the current configuration from the CLI.

- 1 Log in to the CLI.
- 2 Enter the following command to back up your local database, system configuration settings, archives and reports.

```
execute backup all-settings <ftp server> <filepath>  
<username> <password> [cryptpasswd]
```

where:

- <ftp server> is IP address or hostname of FTP server.
- <filepath> is the location on FTP server where you want the settings file to be placed.

Note: If you don't specify a name, you will get a default file called fdb_allbackup.dat.

- <username> is the user name of account that logs on to the FTP server.
- <password> is the password of account that logs on to the FTP server.
- [cryptpasswd] is the optional password for protecting the settings file on the FTP server.

For details about backup and restore using the CLI, see FortiDB-Specific Commands in the CLI Reference.

- 3 After successfully backing up your configuration files from the CLI, proceed with upgrading the FortiDB firmware.

Upgrading FortiDB Firmware using the Web-based Manager

This topic describes how to upgrade the FortiDB firmware. When changing the firmware image, the FortiDB unit will either keep or reset its configuration.

- 1 Download the firmware image file to your management computer. For FortiDB units with a valid technical support contract, firmware images can be downloaded from the Fortinet Technical Support web site, <https://support.fortinet.com/>.
- 2 Log in to FortiDB as the administrative user.
- 3 Go to System Information under Appliance.
- 4 In the Firmware Version field, select the Update link.
- 5 Type the path and file name of the firmware image file, or select the Browse button and locate the firmware image file.
- 6 Select OK.
- 7 Select Update. The FortiDB unit uploads the firmware image file, upgrades to the new firmware version, restarts. This process takes a few minutes.
- 8 Refresh your browser to display the FortiDB login screen.



Note: All data created in the previous version stays intact after updating the firmware version. If you want to reset all device settings and configuration, and delete log data on the hard drive, you can use `execute format disk` command using CLI. For details, please refer to the CLI Reference.

Upgrading FortiDB Firmware using the CLI

To use the following procedure, you must have an TFTP or FTP server the FortiDB unit can connect to.



Note: To use this procedure, you must log in using the admin administrator account, or an administrator account that has system configuration read and write privileges.

To upgrade the firmware using the CLI

- 1 Make sure the FTP or TFTP server is running.
- 2 Copy the new firmware image file to the FTP or TFTP server.
- 3 Log into the CLI.
- 4 Make sure the FortiDB unit can connect to the FTP or TFTP server.

You can use the following command to ping the computer running the FTP or TFTP server. For example, if the IP address of the FTP or TFTP server is 192.168.1.168:

```
execute ping 192.168.1.168
```

- 5 Enter the following command to copy the firmware image from the FTP or TFTP server to the FortiDB unit:

```
execute restore image ftp <filename> <ftp_ip>
execute restore image tftp <filename> <tftp_ip>
```

Where <filename> is the name and location of the firmware image file and <tftp_ip> or <ftp_ip> is the IP address of the FTP or TFTP server. For example, if the firmware image file name is `image.out` and the IP address of the FTP or TFTP server is 192.168.1.168, enter:

```
execute restore image ftp image.out 192.168.1.168
```

The FortiDB unit responds with the message:

```
This operation will replace the current firmware version!
Do you want to continue? (y/n)
```

6 Type `y`.

The FortiDB system uploads the firmware image file, upgrades to the new firmware version, and restarts. This process takes a few minutes.

7 Reconnect to the CLI.

8 To confirm the new firmware image is successfully installed, enter:

```
get system status
```

Installing Firmware using Boot Loader Menu

This procedure installs a specified firmware image and resets the FortiDB system to the network default settings. You can use this procedure to upgrade to a new firmware version, revert to an older firmware version, or re-install the current firmware version.

To use this procedure, you must connect to the CLI using the FortiDB console port and a RJ-45 to DB-9 or null-modem cable. This procedure reverts the FortiDB unit to its factory default configuration.

For this procedure you:

- Access the CLI by connecting to the FortiDB console port.
- Install a TFTP server that you can connect to from the FortiDB interface. The TFTP server should be on the same subnet as the internal interface.

To install firmware from a system reboot

- 1 Connect to the FortiDB CLI through your console port.
- 2 Get and copy your current network settings as your reference by executing the following command:

```
show
```



Note: After installing a new image, your network settings are reset to the factory defaults. You need to re-configure network settings in order to access to the web-based manager.

- 3 Make sure the TFTP server is running.
- 4 Copy the new firmware image file to your TFTP server.
- 5 Make sure the internal interface is connected to the same network as the TFTP server. To test the connection, enter:

```
execute ping <tftp_ip_address>
```

- 6 Enter the following command to restart the FortiDB:

```
execute reboot
```

The FortiDB system responds with the following message:

```
This operation will reboot the system !
Do you want to continue? (y/n)
```

- 7 Type `y` to display the boot loader menu.

As the FortiDB system starts, a series of system startup messages is displayed.

When one of the following messages appears:

```
Press any key to display configuration menu.....
```

Immediately press any key to interrupt the system startup.



Note: You have only 3 seconds to press any key. If you do not press a key soon enough, the FortiDB system reboots and you must log in and repeat the `execute reboot` command.

If you successfully interrupt the startup process, one of the following messages appears:

```
[G]: Get firmware image from TFTP server.
[F]: Format boot device.
[B]: Boot with backup firmware and set as default
[C]: Configuration and information
[Q]: Quit menu and continue to boot with default
firmware.
[H]: Display this list of options.
```

```
Enter G,F,B,C,Q, or H:
```

- 8 Type `G` to get the new firmware image from the TFTP server.

The following message appears:

```
Enter TFTP server address [192.168.1.168]:
```

- 9 Type the address of the TFTP server and press `Enter`.

The following message appears:

```
Enter Local Address [192.168.1.188]:
```

- 10 Type an IP address that can be used by the FortiDB to connect to the FTP server.

The IP address can be any IP address that is valid for the network the interface is connected to. Make sure you do not enter the IP address of another device on this network.

The following message appears:

```
Enter firmware image file name [image.out]:
```

- 11 Enter the firmware image file name (and location) and press `Enter`.

The TFTP server uploads the firmware image file to the FortiDB unit. Some unite models may display the following message:

```
Save as Default firmware/Backup firmware/Run image without
saving: [D/B/R]
```

- 12 Type `D`.

The FortiDB unit installs the new firmware image and restarts. The installation might take a few minutes to complete. If the installation is successfully done, you will get the FortiDB CLI prompt.

- 13** Configure your network settings. To configure your network settings, please refer to [To configure the network settings using the CLI](#).

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