

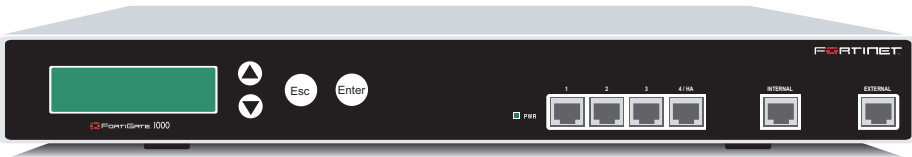
FORTINET FORTIGATE-1000 QUICK START MANUAL



FortiGate-1000 LED Indicators

LED	State	Description
Power	Green	The FortiGate-1000 unit is powered on.
	Off	The FortiGate-1000 unit is powered off.
Internal External 1 2 3 4/HA	Amber	The correct cable is in use and the connected equipment has power.
	Flashing Amber	Network activity at this interface.
	Green	The interface is connected.
		1, 2, 3 and 4/HA connect at up to 100 Mbps. - Internal and External connect at up to 1000 Mbps.
	Off	No link established.

FortiGate-1000



QuickStart Guide

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Regulatory Compliance
FCC Class A Part 15 CSA/CUS
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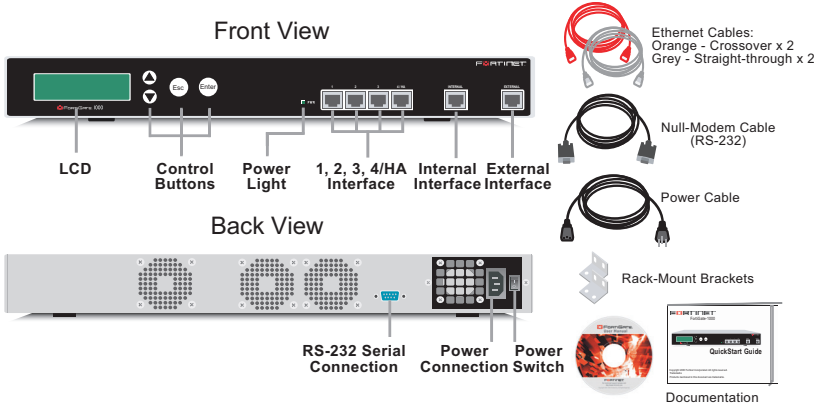
01-28005-0039-20041103

1 Checking the package contents

Check that the package contents are complete.

Connectors

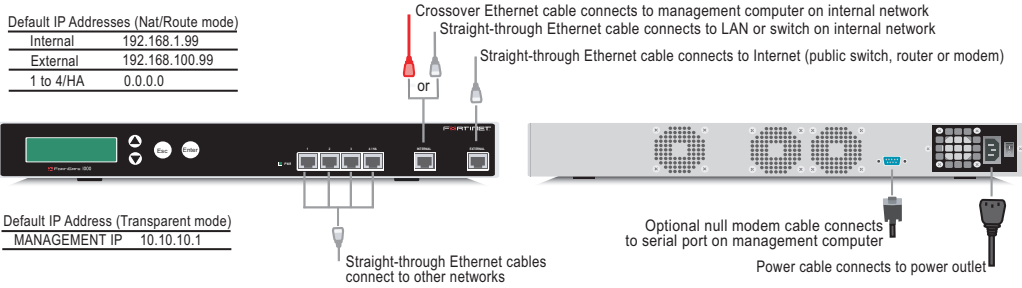
Connector	Type	Speed	Protocol	Description
Internal	RJ-45	1000Base-T	Ethernet	Copper gigabit connection to the internal network.
External	RJ-45	1000Base-T	Ethernet	Copper gigabit connection to the Internet.
1 to 3	RJ-45	10/100Base-T	Ethernet	Optional connection to other networks.
4/HA	RJ-45	10/100Base-T	Ethernet	Optional connection to other networks, or to other FortiGate-1000 units for high availability (HA).
CONSOLE	DB-9	9,600 bps	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).



2 Connecting the FortiGate-1000

- Place the unit on a stable surface or mount it in a 19-inch rack. It requires 1.5 inches (3.75 cm) clearance on each side to allow for cooling.
- Make sure the power switch on the back of the unit is turned off before connecting the power and network cables.
- MAIN MENU appears when the unit is up and running.

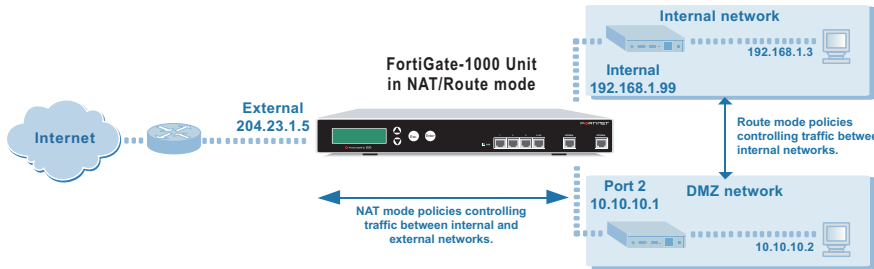
Connect the FortiGate-1000 unit to a power outlet and to the internal and external networks.



3 Planning the configuration

NAT/Route mode

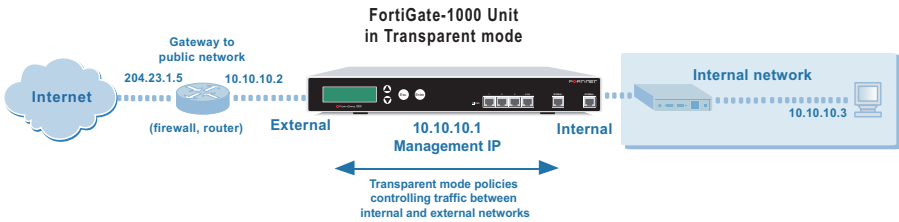
In NAT/Route mode, each FortiGate-1000 unit is visible to the networks that it is connected to. All of its interfaces are on different subnets. Each interface that is connected to a network must be configured with an IP address that is valid for that network. You would typically use NAT/Route mode when the FortiGate-1000 unit is deployed as a gateway between private and public networks. In its default NAT/Route mode configuration, the unit functions as a firewall. Firewall policies control communications through the FortiGate-500 unit. No traffic can pass through the FortiGate-1000 unit until you add firewall policies.



In NAT/Route mode, firewall policies can operate in NAT mode or in Route mode. In NAT mode, the FortiGate-1000 unit performs network address translation before IP packets are sent to the destination network. In Route mode, no translation takes place. Refer to the Documentation CD-ROM for information on how to control traffic, and how to configure HA, antivirus protection, Web content filtering, Spam filtering, intrusion prevention (IPS), and virtual private networking (VPN).

Transparent mode

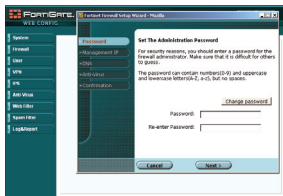
In Transparent mode, the FortiGate-1000 unit is invisible to the network. All of its interfaces are on the same subnet. You only have to configure a management IP address so that you can make configuration changes. You would typically use the FortiGate-1000 unit in Transparent mode on a private network behind an existing firewall or behind a router. In its default Transparent mode configuration, the unit functions as a firewall. No traffic can pass through the FortiGate-1000 unit until you add firewall policies.



You can connect up to 6 network segments to the FortiGate-1000 unit to control traffic between these network segments.

4 Choosing a configuration tool

Choose among three different tools to configure the FortiGate-1000.



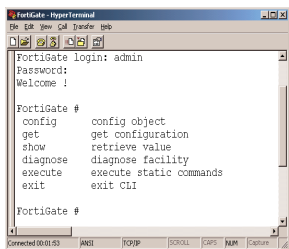
Web-based manager & Setup Wizard

The FortiGate web-based manager Setup Wizard guides you through the initial configuration steps.

Use it to configure the administrator password, the interface addresses, the default gateway address, and the DNS server addresses. Optionally, use the Setup Wizard to configure the internal server settings for NAT/Route mode.

Requirements:

- Ethernet connection between the FortiGate-1000 and management computer.
- Internet Explorer version 6.0 or higher on the management computer.



Command Line Interface (CLI)

The CLI is a full-featured management tool. Use it to configure the administrator password, the interface addresses, the default gateway address, and the DNS server addresses. To see the Documentation

configure advanced settings, see the Documentation CD-ROM.

Requirements:

- Serial connection between the FortiGate-1000 and management computer.
- A terminal emulation application (HyperTerminal for Windows) on the management computer.

IP Address
192.168.100.001

Control Buttons & LCD

The control buttons and LCD are located on the front panel of the FortiGate-1000. Use them to configure the internal, external and DMZ interface addresses, and the default gateway address. To configure the other interface addresses, the DNS server addresses and other settings, use the web-based manager, or the CLI.

Requirements:

- Physical access to the FortiGate-1000.

5 Collecting information

NAT/Route mode

Internal Interface:	IP: _____
	Netmask: _____
External Interface:	IP: _____
	Netmask: _____
Interface:	IP: _____
	Netmask: _____
Interface:	IP: _____
	Netmask: _____
Interface:	IP: _____
	Netmask: _____

The internal interface IP address and netmask must be valid for the internal network.

Use these tables to record your FortiGate-1000 configuration. You can record NAT/Route or Transparent mode settings and general settings that apply to both modes. Using the table below you can record settings for the Internal and External interfaces and three other interfaces.

Transparent mode

Management IP:	IP: _____
	Netmask: _____

The management IP address and netmask must be valid for the network from which you will manage the FortiGate-1000.

General settings

Administrator password:	
Network Settings:	Default Gateway: _____
	Primary DNS Server: _____
	Secondary DNS Server: _____

A default gateway is required for the FortiGate unit to route connections to the Internet.

6 Configuring the FortiGate-1000

Web-based manager and Setup Wizard

NAT/Route mode

To configure the FortiGate-1000 using the Setup Wizard, select the Easy Setup Wizard button and follow the prompts.



Select the Easy Setup Wizard

To change the administrator password

- Go to **System > Admin > Administrators**.
- Select Change Password for the admin administrator and enter a new password.

To configure interfaces

- Go to **System > Network > Interface**.
- Select the edit icon for each interface to configure.
- Set the addressing mode for the interface. (see the online help for information.)
 - For manual addressing, enter the IP address and netmask for the interface.
 - For DHCP addressing, select DHCP and any required settings.
 - For PPPoE addressing, select PPPoE, and enter the username and password and any other required settings.

To configure the Primary and Secondary DNS server IP addresses

- Go to **System > Network > DNS**, enter the Primary and Secondary DNS IP addresses that you recorded above and select Apply.

To configure a Default Gateway

- Go to **Router > Static** and select Edit icon for the static route.
- Set Gateway to the Default Gateway IP address that you recorded above and select OK.

Note: If you change the internal interface IP address (NAT/Route mode) or management IP address (Transparent mode), you must use this address to reconnect to the web-based manager and Setup Wizard. You might also have to change the IP address of the management computer to be on the same subnet as the new IP address.

- Connect the FortiGate-1000 internal interface to a management computer Ethernet interface. 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.
- Configure the management computer to be on the same subnet as the internal interface of the FortiGate-1000. To do this, change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
- To access the FortiGate web-based manager, start Internet Explorer and browse to https://192.168.1.99 (remember to include the “s” in https://).
- Type admin in the Name field and select Login.

Transparent mode

To switch from NAT/route mode to transparent mode

- Go to **System > Status**, select Change beside Operation Mode, and select OK.
- Change the IP address of the management computer to 10.10.10.2 and use Internet Explorer to browse to https://10.10.10.1.

To configure the FortiGate-1000 using the Setup Wizard, select the Easy Setup Wizard button and follow the prompts.

To change the administrator password

- Go to **System > Admin > Administrators**.
- Select Change Password for the admin administrator and enter a new password.

To configure the management interface

- Go to **System > Network > Management**.
- Enter the Management IP address and netmask that you recorded above.
- Select administrative access options if required and select OK.

To configure the Primary and Secondary DNS server IP addresses

- Go to **System > Network > DNS**, enter the Primary and Secondary DNS IP addresses that you recorded above and select Apply.

To configure a Default Gateway

- Go to **System > Network > Management**.
- Set Default Gateway to the Default Gateway IP address that you recorded above and select OK.

Using the Command Line Interface

NAT/Route mode

- Configure the FortiGate-1000 internal interface.

```
config system interface
  edit internal
    set mode static
    set ip <intf_ip> <netmask_ip>
  end
```
- Repeat to configure each interface, for example, to configure the external interface.

```
config system interface
  edit external
    ...
```
- Configure the primary and secondary DNS server IP addresses.

```
config system dns
  set primary <dns-server_ip>
  set secondary <dns-server_ip>
end
```
- Configure the default gateway.

```
config router static
  edit 1
    set gateway <gateway_ip>
end
```

- Use the serial cable to connect the FortiGate Console port to the management computer serial port.
- Start a terminal emulation program (HyperTerminal) on the management computer. Use these settings: Baud Rate (bps) 9600, Data bits 8, Parity None, Stop bits 1, and Flow Control None.
- At the Login: prompt, type `admin` and press Enter twice (no password required).

Transparent mode

- Change from NAT/Route mode to Transparent mode.

```
config system global
  set opmode transparent
end
```
- Wait a moment and then log in again at the prompt.
- Configure the Management IP address.

```
config system manageip
  set ip <mng_ip> <netmask>
end
```

Configure the DNS server IP address.

```
config system dns
  set primary <dns-server_ip>
  set secondary <dns-server_ip>
end
```
- Configure the default route.

```
config router static
  edit 1
    set gateway <gateway_ip>
end
```

Using the Control Buttons and LCD

NAT/Route mode

Use the control buttons and LCD to:

- configure the Internal, External, and port3 (DMZ) interface IP addresses and netmasks.
- configure the External interface Default Gateway.

- Use the Enter key to access the Main Menu, to select menu items, to move right when entering IP addresses, and to confirm changes.
- Use the arrow keys to move up and down in the Main Menu, and to change IP address numbers.
- Use the Esc key to return to the Main Menu, and to move left when entering IP addresses.

Transparent mode

Use the control buttons and LCD to:

- change the operating mode from NAT/Route to Transparent.
- configure the Management Interface IP address and netmask.
- configure the Default Gateway.

Note: When you enter an IP address, the LCD display always shows three digits for each part of the IP address. For example, the IP address 192.168.100.1 appears on the LCD display as 192.168.100.001.

7 Completing the configuration

Congratulations!
You have finished configuring the basic settings. Your network is now protected from Internet-based threats. To explore the full range of configuration options, see the online help or the Documentation CD-ROM.

Restarting the FortiGate-1000

Should you mistakenly change a network setting and cannot connect to the unit, reboot the unit and try again or to set the unit back to factory defaults and start over again.

- To restart the unit, go to **System > Maintenance > ShutDown** and select Reboot. CLI: `execute reboot`
- To reset the unit, go to **System > Maintenance > Shutdown** and select Reset to factory default. CLI: `execute factoryreset`

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