

# Configuring

## NAT/Route mode

You would typically use NAT/Route mode when the FortiGate 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 unit.

## Transparent mode

You would typically use the FortiGate 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.

## Web-based Manager

1. Connect the FortiGate MGMT1 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.
2. Configure the management computer to be on the same subnet as the MGMT1 interface of the FortiGate unit. To do this, change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiGate web-based manager, start a web browser and type the address `https://192.168.1.99`
4. Type `admin` in the Name field and click Login.

## NAT/Route mode

### To change the administrator password

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

### To configure interfaces

1. Go to *System > Network > Interface*.
2. Select the edit icon for each interface to configure.
3. 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

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

### To configure a Default Gateway

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

## Transparent mode

### To switch from NAT/route mode to transparent mode

1. Go to *System > Config > Operation Mode* and select Transparent.
2. Set the Management IP/Netmask to 192.168.1.99/24.
3. Set a default Gateway and select Apply.

### To change the administrator password

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

### To change the management interface

1. Go to *System > Config > Operation Mode*.
2. Enter the Management IP address and netmask that you recorded above and select Apply.

### To configure the Primary and Secondary DNS server IP addresses

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

## Command Line Interface

1. Use the RJ-45 to DB9 serial cable to connect the FortiGate Console port to the management computer serial port.
2. 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.
3. At the Login: prompt, type `admin` and press Enter twice (no password required).

## NAT/Route mode

1. Configure the FortiGate MGMT1 interface.
 

```
config system interface
  edit MGMT1
    set ip <intf_ip>/<netmask_ip>
  end
```
2. Repeat to configure each interface, for example, to configure the Port 1 interface.

3. Configure the primary and secondary DNS server IP addresses.
 

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

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

## Transparent Mode

1. Change from NAT/Route mode to Transparent mode and configure the Management IP address.

```
config system settings
  set opmode transparent
  set manageip <mng_ip>/<netmask>
  set gateway <gateway_ip>
end
```

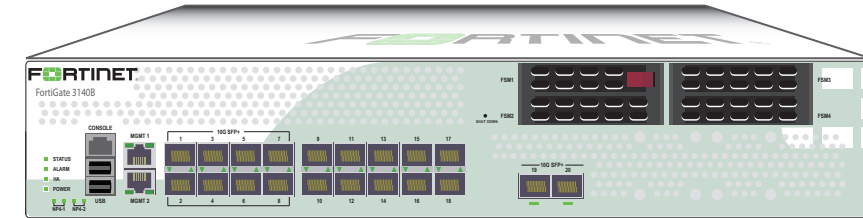
2. Configure the DNS server IP address.
 

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

Visit these links for more information and documentation for your Fortinet product:

Technical Documentation - <http://docs.fortinet.com> Fortinet Knowledge Center - <http://kb.fortinet.com>  
 Technical Support - <http://support.fortinet.com> Training Services - <http://campus.training.fortinet.com>

# FortiGate-3140B

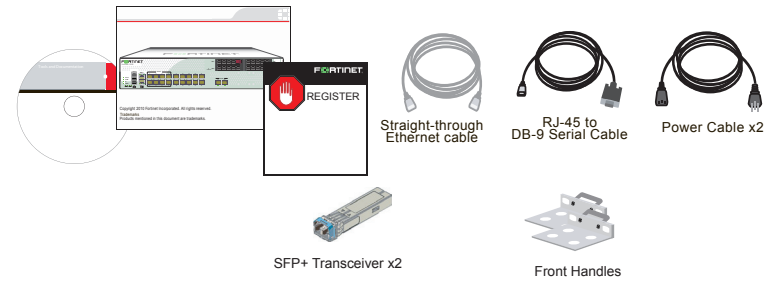
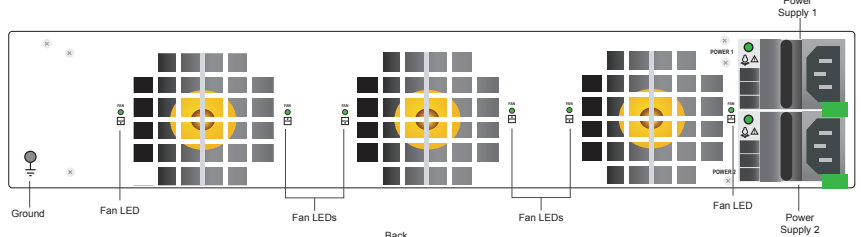
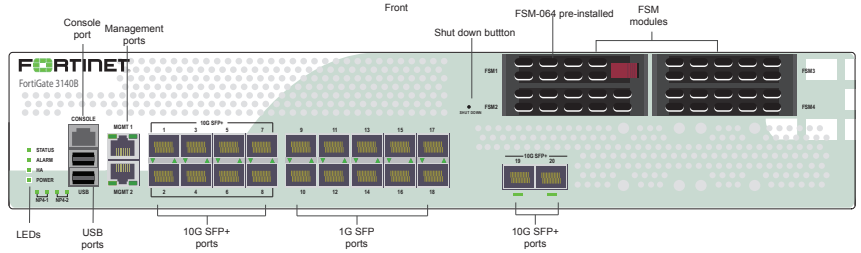


AC Power Required	100-240 VAC ~ 12.0A Max 50-60 Hz
Chassis	2U
Network Interfaces	10 1GB SFP 10 10GB SFP+ 2 10/100/1000 Management ports 2 USB 2.0 Type A 1 Console port (RJ-45)
FSM slots	4 64GB SSD (1 included)

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 Regulatory Compliance  
 FCC Class A Part 15, / CE Mark  
 10 December 2010

# Package Contents



# Factory Defaults

Administrator user name	admin
Administrator password	(none)
<b>NAT/Route mode</b>	
MGMT1	192.168.1.99
Port 1	192.168.100.99

To reset the FortiGate unit to the factory defaults, in the CLI type the command:  
`execute factoryreset`

# LED Description

LED	State	Description	
Power	Green	The unit is on.	
	Off	The unit is off.	
Status	Green flashing	The unit is starting up.	
	Green	The unit is running normally.	
HA	Green	HA is enabled and in normal mode.	
	Red	HA is enabled but in failover mode.	
	Off	The unit is in stand-alone mode.	
Alarm		To be supported in a future release.	
NP4-1, NP4-2	Green	NP4 to switch link status is normal.	
	Off	NP4 to switch link status may have a problem. Contact Fortinet Support if this occurs.	
Ports 1 to 20	Link	Green	Port is online.
		Off	Port is offline.
	Activity	Green flashing	Port is receiving or sending data.
		Off	Port might be on but is not receiving or sending data.
Management (MGMT) ports 1 and 2	Link	Green	Port is online.
		Flashing	Port is receiving or sending data.
	Speed	Green	Connected at 1000Mbps.
		Amber	Connected at 100 Mbps.
		Off	Connected at 10 Mbps.
AC power	Green	AC cable is connected and has power.	
	Amber	AC cable is not connected or does not have power.	
Fan	Green	The fan is running and the speed is within proper range.	
	Off	The fan is not running or the speed is over threshold.	

# Interface Description

Interface	Type	Speed	Protocol	Description
Ports 1 to 8	SFP+ (SR or LR)	10 Gbps/auto	Ethernet	Small form-factor pluggable transceiver.
Ports 9 to 18	SFP	1 Gbps/auto	Ethernet	Small form-factor pluggable transceiver.
Ports 19 to 20	SFP+ (SR or LR)	10Gbps/auto	Ethernet	Small form-factor pluggable transceiver used for IPS and multicast transmission, and IPV6 acceleration.
CONSOLE	RJ-45	9600 bps	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).
USB	USB A			Optional connections for the USB key, modem, or backup operation.
MGMT 1 and MGMT 2	RJ-45	10/100/1000	Ethernet	Two management ports.

# Connecting

Connect the following to the FortiGate unit. Ensure the FortiGate unit is placed on a stable surface or install in a standard 19 inch rack.

- Connect the RJ-45 to DB-9 serial cable into the Console port on the unit. Insert the other end into the management computer.
- Insert the ethernet cable into a port. Insert the other end to the router connected to the Internet.
- Connect the AC power cables to the power supplies.
- Connect the AC power cords to a surge protected power bar or power supply.

## SFP Transceivers

**Caution:** Do not force the SFP transceivers into the cage slots. You can damage the connector if handling the SFP transceivers by holding the release Latch. 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 it or rotate it and slide it in again.

- To install the transceivers:
- Remove the caps from SFP cage sockets on the front panel.
  - Hold the sides of the SFP transceiver and slide the SFP transceiver into the cage socket until it clicks into place.

## FSM Modules

Power down the system prior to inserting or removing a FSM module.

**Caution:** When installing the FSM module, ensure that the **FORTINET** and/or **“THIS SIDE UP”** labels are orientated upwards when inserting the module into the unit.

- To insert the FSM module:
- Insert the module into the FSM slot on the unit with the **Fortinet** and/or **“This Side Up”** labels facing upwards.
  - Close the latch.