Introduction

Thank you for choosing a Forcepoint Next Generation Firewall (Forcepoint NGFW) appliance. Familiarize yourself with the appliance ports and indicators and learn how to install the appliance safely.

Find product documentation

On the Forcepoint support website, you can find information about a released product, including product documentation, technical articles, and more.

You can get additional information and support for your product on the Forcepoint support website at https://support.forcepoint.com. There, you can access product documentation, Knowledge Base articles, downloads, cases, and contact information.
Model 3201 and 3205 features

The figures and tables show the appliance components.

Front panel

1 Interface modules
2 Indicator lights
3 Power button
4 USB ports
5 Console port (speed 9600 bps)
6 Solid-state drive (SSD)
Back panel

1 AC or DC power supplies
2 IPMI port (usage not recommended)
3 Console port (not used)
4 USB ports
5 VGA port
6 Fixed Ethernet ports

Ethernet port names

Ethernet port names are based on the slot and port numbers. The first number in the name represents the slot on the appliance. The second number represents the port on the slot. Example: eth2_0 is located on port 0 of slot 2.

<table>
<thead>
<tr>
<th>Component</th>
<th>Slot number</th>
<th>Slot location</th>
<th>Port numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Ethernet</td>
<td>0</td>
<td>Back panel</td>
<td>eth0_0 and eth0_1.</td>
</tr>
<tr>
<td>ports</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface modules</td>
<td>1–3</td>
<td>Front panel</td>
<td>The port numbers start from 0 and increase from left to right. Example: The port farthest to the left in slot 1 is eth1_0.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Model 3202, 3206, and 3207 features

The figures and tables show the appliance components.

Front panel

1 Interface module slots
2 Indicator lights
3 Power button
4 USB ports
5 Console port (primary; speed 9600 bps)
6 Fan enclosure plate
3202 appliance back panel

1. AC or DC power supplies
2. Solid-state drive (SSD)
3. Fan enclosure
4. USB ports
5. IPMI port (usage not recommended)
6. Console port (secondary; speed 9600 bps)
7. VGA port
8. Fixed Ethernet ports
### 3206 and 3207 appliance back panel

1. AC or DC power supplies
2. Solid-state drive (SSD)
3. Fan enclosure
4. Console port (secondary; speed 9600 bps)
5. IPMI port (usage not recommended)
6. USB ports
7. Fixed Ethernet ports
8. VGA port

#### Ethernet port names

Ethernet port names are based on the slot and port numbers. The first number in the name represents the slot on the appliance. The second number represents the port on the slot. *Example: eth2_0* is located on port 0 of slot 2.

<table>
<thead>
<tr>
<th>Component</th>
<th>Slot number</th>
<th>Slot location</th>
<th>Port numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Ethernet ports</td>
<td>0</td>
<td>Back panel</td>
<td>eth0_0 and eth0_1.</td>
</tr>
<tr>
<td>Interface modules</td>
<td>1–3</td>
<td>Front panel</td>
<td>The port numbers start from 0 and increase from left to right. <em>Example: The port farthest to the left in slot 1 is eth1_0.</em></td>
</tr>
</tbody>
</table>
Model 3301 and 3305 features

The figures and tables show the appliance components.

Front panel

1. Interface module slots
2. Indicator lights
3. USB ports
4. Console port (speed 115,200 bps)
5. VGA port
6. QSFP+ port (3305 appliances only)

Note: You can only use a short-range transceiver in this port.

7. Fixed Ethernet ports 0 and 1
8. USB ports
9. IPMI port (usage not recommended)
10. Power button
11. UID button
Back panel

1 Fan enclosures
2 UID button
3 UID indicator
4 Solid-state drive (SSD) slots (only the upper slot is used)
5 SSD indicators
6 Grounding pin
7 AC or DC power supplies

Ethernet port names

Ethernet port names are based on the slot and port numbers. The first number in the name represents the slot on the appliance. The second number represents the port on the slot. Example: eth2_0 is located on port 0 of slot 2.

<table>
<thead>
<tr>
<th>Component</th>
<th>Slot number</th>
<th>Slot location</th>
<th>Port numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Ethernet ports</td>
<td>0</td>
<td>Front panel</td>
<td>eth0_0, eth0_1, and (3305 appliances) eth0_2.</td>
</tr>
<tr>
<td>Interface modules</td>
<td>1–4</td>
<td>Front panel</td>
<td>The port numbers start from 0 and increase from left to right. Example: The port farthest to the left in slot 1 is eth1_0.</td>
</tr>
</tbody>
</table>
Fixed port indicators

Fixed port indicators show the status and speed of the network ports.

Ethernet port indicators

Ethernet port indicators show the status and speed of the network ports.

![Ethernet port indicators](image)

### 3201, 3205, 3301, and 3305 appliances
- **1** Activity indicator
- **2** Link indicator

### 3202, 3206, and 3207 appliances
- **1** Link indicator
- **2** Activity indicator

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Color</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity indicator</td>
<td>Amber</td>
<td>Link OK, flashes on activity.</td>
</tr>
<tr>
<td>Link indicator</td>
<td>Unlit</td>
<td>No link.</td>
</tr>
<tr>
<td>Orange</td>
<td>100 Mbps link.</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>1 Gbps link.</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** For 3201, 3205, 3206, or 3207 appliances, an unlit link indicator can indicate that the speed is 10 Mbps.

QSFP+ port indicators

QSFP+ port indicators show the status and speed of the network ports.

![QSFP+ port indicators](image)

<table>
<thead>
<tr>
<th>Number</th>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Activity/link indicator</td>
<td>Amber</td>
<td>Link OK, flashes on activity.</td>
</tr>
<tr>
<td>Number</td>
<td>Indicator</td>
<td>Status</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------</td>
<td>--------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Link speed indicator</td>
<td>Unlit</td>
<td>No link</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>40 Gbps link</td>
</tr>
</tbody>
</table>

**Front panel indicator lights**

The front panel indicators vary depending on the appliance model. The SSD indicators are the same for all 2U appliances.

**Front panel indicators on models 3201, 3202, 3205, 3206, 3207**

- ![Warning Symbol] Indicates that a power supply cable is detached.
- ![Key Symbol] When flashing, indicates a fan failure. When continuously on, indicates an overheat condition, which can be caused by cables obstructing the airflow in the system or the ambient room temperature being too warm.
- ![Ethernet Interface 1] When flashing, indicates network activity on the onboard Ethernet interface 1. The interface is on the back panel of the appliance.
- ![Ethernet Interface 0] When flashing, indicates network activity on the onboard Ethernet interface 0. The interface is on the back panel of the appliance.
- ![SSD Symbol] When flashing, indicates SSD activity.
- ![Light Bulb Symbol] Indicates that power is supplied to the system power supply units. This indicator is illuminated when the system is operating normally.
Front panel indicators on models 3301 and 3305

<table>
<thead>
<tr>
<th>Number</th>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power</td>
<td>Green</td>
<td>The appliance is in running state.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red</td>
<td>The appliance is in standby state.</td>
</tr>
<tr>
<td>2</td>
<td>Warning</td>
<td>Red</td>
<td>Overheating. Flashes on fan failure or system failure.</td>
</tr>
<tr>
<td>3</td>
<td>Disk Activity</td>
<td>Amber</td>
<td>Indicates SSD activity when flashing.</td>
</tr>
<tr>
<td>4</td>
<td>UID</td>
<td>Blue</td>
<td>The UID indicator has been switched on.</td>
</tr>
</tbody>
</table>

SSD indicators

<table>
<thead>
<tr>
<th>Number</th>
<th>Indicator</th>
<th>Status</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power indicator</td>
<td>Blue</td>
<td>An SSD is in the bay.</td>
</tr>
<tr>
<td>2</td>
<td>Disk indicator</td>
<td>Unlit</td>
<td>This indicator is not used.</td>
</tr>
</tbody>
</table>

Supported interface modules

Forcepoint NGFW appliances support copper, fiber, and small form-factor pluggable (SFP) modules.

**Note:** Do not remove any stickers from modules — they contain important information.
For a list of all available interface modules and compatibility information, see Knowledge Base article 10245.

Table 1: Copper modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Identifier</th>
<th>Appliance models</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 port 10 gigabit Ethernet RJ45 module</td>
<td>MO102</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
<tr>
<td>2 port 10 gigabit RJ45 bypass module</td>
<td>MO102B</td>
<td>3206, 3207</td>
</tr>
<tr>
<td>4 port gigabit Ethernet RJ45 module</td>
<td>MOG4</td>
<td>3206</td>
</tr>
<tr>
<td>4 port gigabit Ethernet bypass RJ45 module</td>
<td>MOG4B</td>
<td>3206, 3207</td>
</tr>
<tr>
<td>8 port gigabit Ethernet RJ45 module</td>
<td>MOG8</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
</tbody>
</table>

Table 2: Fiber modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Identifier</th>
<th>Appliance models</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 port Fiber bypass LC module</td>
<td>MOE2B</td>
<td>3206, 3207</td>
</tr>
<tr>
<td>2 port 10 gigabit Ethernet short reach bypass module</td>
<td>MO10S2B</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
<tr>
<td>2 port 10 gigabit Ethernet long reach bypass module</td>
<td>MO10L2B</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
<tr>
<td>4 port gigabit Ethernet SX fiber bypass module</td>
<td>MOGS4B</td>
<td>3206, 3207</td>
</tr>
</tbody>
</table>

Table 3: SFP modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Identifier</th>
<th>Appliance models</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 port 10 gigabit Ethernet SFP+ module</td>
<td>MO10F2</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
<tr>
<td>2 port 40 gigabit Ethernet QSFP module</td>
<td>MO40F2</td>
<td>3207, 3301, 3305</td>
</tr>
<tr>
<td>4 port gigabit Ethernet SFP module</td>
<td>MOGF4</td>
<td>3201, 3202, 3205, 3206, 3207, 3301, 3305</td>
</tr>
<tr>
<td>4 port 10 gigabit Ethernet SFP+ module</td>
<td>MO10F4</td>
<td>3206</td>
</tr>
<tr>
<td>4 port 10 gigabit Ethernet SFP+ module revision 2</td>
<td>MOE10F4</td>
<td>3207, 3301, 3305</td>
</tr>
</tbody>
</table>
Copper interface modules

Forcepoint NGFW appliances support these copper interface modules.

MO102 module

The MO102 module is a two-port 10 gigabit copper interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK, flashes on activity.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Yellow</td>
<td>1 Gbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>10 Gbps link.</td>
</tr>
</tbody>
</table>

MO102B module

The MO102B module is a two-port 10 gigabit bypass copper module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK, flashes on activity.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Amber</td>
<td>1 Gbps link, flashes in disconnect mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>10 Gbps link, flashes in bypass mode.</td>
</tr>
</tbody>
</table>
**MOG4 module**

The MOG4 module is a quad-port gigabit interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Green</td>
<td>1 Gbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amber</td>
<td>100 Mbps link.</td>
</tr>
</tbody>
</table>

**MOG4B module**

The MOG4B module is a quad-port gigabit bypass copper module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Yellow</td>
<td>1 Gbps link, flashes in disconnect mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>100 Mbps link, flashes in bypass mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unlit</td>
<td>10 Mbps link.</td>
</tr>
</tbody>
</table>
MOG8 module

The MOG8 module is an eight-port gigabit copper interface module.

Fiber interface modules

Forcepoint NGFW appliances support these fiber interface modules.

MOE2B module

The MOE2B module is a two-port gigabit bypass fiber module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Port numbers 0–7</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2, 5</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK, flashes on activity.</td>
</tr>
<tr>
<td>3, 6</td>
<td>Link speed indicator</td>
<td>Yellow</td>
<td>1 Gbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>100 Mbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unlit</td>
<td>10 Mbps link.</td>
</tr>
<tr>
<td>4</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Number</td>
<td>Component</td>
<td>Color</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------</td>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Green</td>
<td>1 Gbps link, flashes in bypass mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow</td>
<td>Flashes in disconnect mode.</td>
</tr>
</tbody>
</table>

**MO10S2B module**

The MO10S2B module is a two-port 10 gigabit bypass fiber module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Blue</td>
<td>10 Gbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>Flashes in bypass mode.</td>
</tr>
</tbody>
</table>

**MO10L2B module**

The MO10L2B module is a two-port 10 gigabit bypass fiber module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Blue</td>
<td>10 Gbps link.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td>Flashes in bypass mode.</td>
</tr>
</tbody>
</table>
MOGS4B module

The MOGS4B module is a quad-port gigabit bypass fiber module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed/bypass/disconnect indicator</td>
<td>Green</td>
<td>1 Gbps link, flashes in bypass mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow</td>
<td>Flashes in disconnect mode.</td>
</tr>
</tbody>
</table>

SFP interface modules

Forcepoint NGFW appliances support these SFP interface modules.

MO10F2 module

The MO10F2 module is a two-port 10 gigabit SFP+ interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Blue</td>
<td>10 Gbps link.</td>
</tr>
</tbody>
</table>
MO40F2 module

The MO40F2 module is a two-port 40 gigabit QSFP+ interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link/link speed indicator</td>
<td>Green</td>
<td>40 Gbps link (other speeds not supported), flashes on activity.</td>
</tr>
</tbody>
</table>

MOGF4 module

The MOGF4 module is a quad-port gigabit SFP interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Yellow</td>
<td>1 Gbps link.</td>
</tr>
</tbody>
</table>
MO10F4 module

The MO10F4 module is a quad-port 10 gigabit SFP+ interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Blue</td>
<td>10 Gbps link.</td>
</tr>
</tbody>
</table>

MOE10F4 module

The MOE10F4 module is a quad-port 10 gigabit SFP+ interface module.

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release lever</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Activity/link indicator</td>
<td>Green</td>
<td>Link OK.</td>
</tr>
<tr>
<td>3</td>
<td>Link speed indicator</td>
<td>Blue</td>
<td>10 Gbps link.</td>
</tr>
</tbody>
</table>
Precautions

The precautions provide safety guidance when working with Forcepoint appliances and electrical equipment.

Safety precautions

Read the safety information and follow the procedures whenever you are working with electronic equipment.

CAUTION: Forcepoint appliances cannot be serviced by end users. Never open the appliance covers for any reason. Doing so can lead to serious injury and void the hardware warranty.

General safety

Follow these rules to ensure general safety.

• Keep the area around the appliance clean and free of clutter.
• When lifting the appliance, two people at each end should lift slowly with their feet spread out to distribute the weight. Always keep your back straight and lift with your legs.
• Use a regulating uninterruptible power supply (UPS) to keep your system operating if there is a power failure and to protect the appliance from power surges and voltage spikes.
• If you need to switch off or unplug the appliance, always wait at least five seconds before turning on or plugging in the appliance again.

Operating precautions

Do not open the power supply casing. Only the manufacturer's qualified technician is allowed to service power supplies.

For additional safety information, see the Forcepoint Product Safety and Regulatory Compliance Guide.

Electrical safety precautions

Follow basic electrical safety precautions to protect yourself from harm and the appliance from damage.

• Know the locations of the power on/off button and the emergency turn-off switch, disconnection switch, or electrical outlet for the room. If an electrical accident occurs, you can quickly turn off power to the system.
• When working with high-voltage components, do not work alone.
• Turn off the system and disconnect the power before removing or installing system components.
• When working with electrical equipment that is turned on, use only one hand. This is to avoid making a complete circuit, which causes an electric shock. Use extreme caution when using metal tools, which can easily damage any electrical components or circuit boards the tools come into contact with.
• Do not use mats designed to decrease electrostatic discharge as protection from electric shock. Instead, use rubber mats that have been designed as electrical insulators.
• The power supply cable must include a grounding plug and must be plugged into a grounded electrical outlet.
• Use only the cord supplied with the appliance.
• The power cord plug cap that plugs into the AC receptacle on the power supply must be an IEC 320, sheet C13, type female connector.
• If you have to replace the motherboard battery, install it the same way as the original battery. Make sure that the positive side faces up on the motherboard. This battery must be replaced only with the same or an equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
• To avoid injury, do not open the enclosures of power supplies or solid-state drives (SSDs).

**Power supply safety precautions**

Depending on the type of power supply that your Forcepoint NGFW appliance uses, different safety precautions and installation guidelines apply.

**Note:** If the appliance has two power supplies, we recommend that you use both power supplies for redundancy.

**AC power supplies**

The appliance power inlet is the disconnect device on the appliance.

**DC power supplies**

• The appliance must be used in a restricted access location and users must be well trained to operate it.
• The outlet for the appliance must be installed near the appliance and be easily accessible.
• We recommend using a 30A fuse (slow) and a power switch between the appliance and the main power source.
• The appliance must be protected against electric shock and must have, at minimum, a 12 AWG wire provided for the DC power supply.
• The mains supply plug on the power supply cable is the disconnect device on the appliance. To disconnect the appliance, you must first disconnect the mains, then disconnect the ground.
Install the appliance

Prepare and install the appliance in your network.

Before you begin

- Install a Security Management Center (SMC) on a separate server.
- Configure the NGFW Engine element (Firewall, IPS, or Layer 2 Firewall) in the Management Client, and save the initial configuration.

  **Note:** For additional information on SMC installation and initial configuration, see the *Forcepoint Next Generation Firewall Installation Guide*.

- Inspect the appliance, the delivery box, and all components included in the shipment.

  **Note:** Do not use damaged appliances or components.

Rack-mount the appliance

The rack-mounting procedure varies depending on the type of rack unit. If needed, see the documentation for your rack unit.

  **Important:** Read the safety precautions before you rack-mount the appliance. Do not install the appliance upside down.

You can install the appliance into a two-post, a four-post, or a Telco-type rack unit.

Preparation for rack-mounting

The rack-mounting kit includes the mounting screws and the rail assemblies or rack-mounting brackets to install the system into the rack.

  **Note:** The long brackets used for the four-post installation of a 3301 or 3305 appliance must be ordered separately.

Determine the placement of each component in the rack.

- Install the heaviest components on the bottom of the rack first. Install components from the bottom to the top.
- The appliance must be connected to a grounded power outlet.
- Use a UPS to protect the appliance from power surges and voltage spikes, and to keep your system operating if there is a power failure.
- To maintain proper cooling, always keep the front door of the rack and all panels and components on the appliances closed when not servicing.
Install a 3201, 3202, 3205, 3206, or 3207 appliance in a two-post rack

Use the rack-mounting brackets to secure the appliance in the rack.

Steps

1) Locate the two rack-mounting brackets for the two-post rack installation.

2) Locate the three pairs of supports on the side of the appliance and the corresponding holes on the brackets.

3) Align the holes against the two supports toward the rear of the appliance and push the bracket under the supports.
   The brackets are marked with "L" for left and "R" for right.

4) Secure the bracket to the appliance by inserting a screw through the hole at the end of the bracket.

5) Attach a bracket to the other side of the appliance.

6) Attach each bracket to the rack with two screws through the holes in the front of the bracket.
Install a 3301 or 3305 appliance in a two-post rack

Use the rack-mounting brackets to secure the appliance in the rack.

Steps

1) Locate the rack-mounting brackets for the two-post rack installation.

2) Attach a bracket to each side of the appliance with two screws through the grooves in the bracket.

- (Usage optional) Two brackets that attach to the front panel of the appliance.
- Two brackets for attaching the appliance to the post.
3) Attach the brackets to the rack with three screws through the holes in the front of the brackets: one screw through the top hole, the second through the middle hole, and the third through the bottom hole.

**CAUTION:** Use all three screws to attach each rack-mounting bracket to the rack. Using fewer screws might not provide sufficient support and can damage the appliance.

---

**Install a 3201, 3202, 3205, 3206, or 3207 appliance in a four-post rack**

Use the rack-mounting rails to secure the appliance in the rack.

Use rail sets of these lengths for installing the appliance in the rack.

- 19–26.6 in. or 48.26–67.56 cm
- 26.5–36.4 in. or 67.31–92.46 cm
Steps

1) Locate the two pairs of brackets, two inner rails that attach to the appliance, and two outer rails that attach to the rack.
   The rails are marked with "L" for left and "R" for right.

2) Detach the inner rails from the outer rails by pressing the locking tab to release the inner rails.

3) Locate the rail buttons on the side of the appliance and the corresponding holes on an inner rail.
4) Align the holes against the corresponding buttons. When all are aligned, push the holes toward the corresponding buttons.

5) Secure the rail to the appliance with a screw.

6) Attach the second inner rail to the other side of the appliance.

7) Insert the outer rails to the rack. If necessary, push the locking tab on the rail to pull out the outer rails.

8) Attach the outer rails to the rack with two screws through the holes at the ends of the rails.
9) Line up the rear of the inner rails with the front of the extended outer rails.

10) Slide the inner rails into the outer rails, keeping the pressure even on both sides.

   Tip: You might have to press the locking tabs when inserting the rails.

When the appliance is pushed completely into the rack, the locking tabs click as the rails lock.

Install a 3301 or 3305 appliance in a four-post rack

Use the rack-mounting brackets to secure the appliance in the rack.

Use bracket sets of these lengths for installing the appliance in the rack.
- medium-length brackets: 15.59–25.59 in. or 39.6–65 cm
- long brackets: 25.59–35.43 in or 65–90 cm

Note: The long brackets must be ordered separately.
Steps

1) Locate the two pairs of brackets in the delivery package: two short brackets that attach to the appliance and two longer brackets that attach to the rack.

2) Attach a short bracket to both sides of the appliance using two screws for each bracket.
3) Attach the two longer brackets to the back of the rack with three screws through the holes at the back of each bracket: one screw through the top hole, another through the middle hole, and the third through the bottom hole.

⚠️ **CAUTION:** Use all three screws to attach each rack-mounting bracket to the rack. Using fewer screws might not provide sufficient support and can damage the appliance.

4) Attach two or three screws with a wider head to a suitable position on the side of the appliance. Do the same for the other side of the appliance.

💡 **Note:** These screws support the appliance when it is inserted into the rack. The number and position of the screws depends on the depth of the rack.

5) Line up the screws that you have attached to the appliance with the groove in the brackets attached to the rack.

6) Slide the appliance into the brackets in the rack.

7) Attach the appliance to the rack with three screws through the holes in the front of the short brackets: one screw through the top hole, the second through the middle hole, and the third through the bottom hole.

⚠️ **CAUTION:** Use all three screws to attach each rack-mounting bracket to the rack. Using fewer screws might not provide sufficient support and can damage the appliance.

---

Install the SSD

Install the SSD if it is not already installed.

The SSD is on the front panel of 3201 and 3205 appliances, and on the back panel of 3202, 3206, 3207, 3301, and 3305 appliances.

There are two SSD slots on the back panel of 3301 and 3305 appliances. Use only the upper slot.

💡 **Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

⚠️ **CAUTION:** Uninstalled SSDs are sensitive to damage from electrostatic discharge.

Steps

1) Press the release button on the SSD to release the lever.

2) Insert the SSD into the bay.

⚠️ **Important:** Only use the upper SSD slot on 3301 and 3305 appliances.

3) Push the lever down to lock the SSD into position.
Install an interface module

If needed, install any interface modules.

**Before you begin**

- Read the safety precautions.
- Make sure any interface modules you install are the correct type for your appliance.

⚠️ **CAUTION:** To avoid damaging the modules or the appliance, do not install or remove any interface modules if the appliance is turned on.

You must install an interface module or a placeholder module in each slot before making the appliance operational.

Note: We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

**Steps**

1) Locate the slot to install the module in.

2) Push the module into the slot.

   The module is seated correctly when the front panel of the module is even with the front panel of the appliance.

   🔄 **Tip:** Make sure that the sticker on the module cover faces up.

   ⚠️ **Important:** Do not insert the module in the wrong orientation. Inserting the modules incorrectly might damage the appliance and the modules and voids the warranty.

**Related concepts**

- Safety precautions on page 21

Connect the cables

Connect the network, management, and power supply cables.

⚠️ **CAUTION:** On appliances that have an Intelligent Platform Management Interface (IPMI) port, the IPMI port is disabled by default. We do not recommend that you enable the IPMI port and connect a cable to it. This might help an unauthorized user to find a way to access and manage the appliance remotely and compromise the security of the system.
Copper cable types

Use at least CAT5e-rated cables for gigabit networks.
Always use standard cabling methods. Use crossover cables to connect the appliance to hosts and straight cables to connect the appliance to switches or hubs. For more information, see the Forcepoint Next Generation Firewall Installation Guide.

Speed and duplex settings

Network interfaces at both ends of each cable must have identical speed and duplex settings.
These settings include the automatic negotiation setting. If one end of the cable uses autonegotiation, the other end must also use autonegotiation. Gigabit standards require interfaces to use autonegotiation. Fixed settings are not allowed at gigabit speeds.
The settings for inline interfaces must be identical for all four interfaces. The pair on the appliance and the interfaces on the two devices connecting to the appliance must have the same speed and duplex settings configured.

Ethernet port mapping

For appliances that have removable interface modules, Ethernet port names are based on the slot and port numbers.
The first number in the name represents the slot on the appliance, and the second number represents the port on the slot. Example: eth2_0 is located on port 0 of slot 2.
• Slot 0 contains the fixed Ethernet ports.
• Slots 1 and higher contain the ports on the interface modules. The port numbers start at 0 and increase from left to right.

During the initial configuration of the appliance, you map the Ethernet ports to the interface IDs that you defined in the Management Client.
The NGFW Initial Configuration Wizard shows the mapping between the interface IDs and port names. In the command line version of the NGFW Initial Configuration Wizard, Interface IDs appear in the Id column and port names appear in the Name column.

This mapping can change if you replace an interface module. If the new module has more Ethernet ports, the interface IDs for the new ports start from the next free interface ID number. Example: You have thirteen interfaces numbered 0–12, which includes a four-port module installed in slot 1.
If you replace the four-port module installed in slot 1 with a two-port module, eth1_2 with ID 10 and eth1_3 with ID 11 are removed.

**Figure 2: Changed interface ID mapping**

Connect network and management cables

Connect the appliance to your networks. The management connection allows you to view the system console.

**Note:** Ethernet ports are mapped to interface IDs during the initial configuration. The ports and port numbers of the physical appliance must match the interface definitions and interface IDs configured for the engine in the Management Client.

**Steps**

1) Determine which Ethernet ports to use and connect the ports to your networks.
2) Select one of these options for the management connection depending on the appliance model and features:
   • Connect a null-modem cable to the console port of the appliance and to another computer for a terminal connection.
   • Connect a monitor to the VGA port and a keyboard to a USB port.

   **Note:** The serial console is not enabled by default on some appliances and cannot be used for the initial configuration. To use the serial console after the initial configuration on these appliances, use the command `sg-bootconfig` on the engine command line. For more information, see Command line tools in the Forcepoint Next Generation Firewall Product Guide for more information.

## Connect network cables to SFP ports

If you installed an SFP interface module on the appliance or the appliance has an integrated SFP port, insert the copper or fiber-optic SFP transceiver into the port, then connect the cables.

### Steps

1) Insert the SFP transceiver in the port slot until you feel the connector on the transceiver snap into place.

   **Note:** Make sure that the latch on the SFP transceiver is up when you insert the SFP transceiver in the port slot.

2) If the SFP transceiver has a rubber plug, remove the plug.

3) Connect the copper or fiber-optic cable to the SFP transceiver.

   **Note:** Each SFP port must match the wavelength specifications at the other end of the cable. The cable must not exceed the stipulated cable length for reliable communications.

## Connect the power supplies

Connect cables to the power supplies on the back of the appliance.

### Before you begin

See the safety precautions topic for information about power supplies.

We highly recommend these configurations.

- On appliances that have two power supply modules for redundant power sources, connect both power supplies to a power source. This ensures that the appliance can function if one of the power connections fails.
- Use a UPS to ensure continuous operation and minimize the risk of damage to the appliance in case of sudden loss of power. For a truly redundant power supply, connect each power connector on the appliance to a different UPS, so that the failure of one UPS does not cut power to both power supplies.
**Steps**

1) Connect the power cables to the AC or DC power connectors on the back of the appliance.

2) Plug the power cord into a grounded, high-quality power strip that offers protection from electrical noise and power surges.

**Related concepts**

Safety precautions on page 21

---

**Maintenance**

Forcepoint NGFW appliances ship with replaceable components.

---

**Turn off the appliance**

Most Forcepoint NGFW 2U appliance hardware components are not hot-swappable.

The only hot-swappable components are power supplies, and the 3202, 3206, 3207, 3301, and 3305 appliance fans. Turn off the appliance and disconnect power before replacing other hardware components.

**Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

---

**Steps**

1) Connect to the engine command line. Depending on your appliance type, use one of these options.
   - Connect a keyboard to a USB port and a monitor to the VGA port, then press Enter.
   - Connect a computer running a terminal emulator program to the appliance console port, then press Enter.
   - Connect using SSH.

   **Note:** SSH access is not enabled by default.

2) Enter the logon credentials.
   The user name is root and the password is the one you set for the appliance.

3) Enter the command halt.

4) Unplug all power cords from the system or the wall outlets.
Replace the power supply

The appliances support both AC and DC power supplies. In the event of a failure, replace the power supply.

⚠️ **CAUTION:** Do not open the casing of a power supply module. Power supply modules can only be repaired by a qualified technician from the manufacturer.

**Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

**Steps**

1) Unplug the power cord from the AC power supply module or disconnect the wires from the DC power supply module.

2) Locate the release tab on the left side of the power supply.

3) Push the release tab to the right to release the power supply module from the locking position.

4) Pull out the power supply module using the handle provided.

5) Push the replacement power supply into the power bay until it clicks in place.

Replace appliance fans

There are four front fans and one back fan on 3202, 3206, and 3207 appliances. There are three back fans on 3301 and 3305 appliances.

You can change the fans without turning off the appliance. We recommend that you replace all appliance fans at the same time. If one of the fans fails, the other fans might need replacement.

⚠️ **CAUTION:** Keep your fingers away from moving fan blades. When you are inserting a fan, the fan begins spinning as soon as it is connected to the power connector.

Replace front fans on 3206 and 3207 appliances

Access the front fans from the fan enclosure plate on the front panel.

**Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

**Steps**

1) Unscrew and remove the fan enclosure plate.

2) Grasp the fan by the handles on the front of the fan and pull the fan carefully out of the slot.
3) Align the replacement fan with the guides so that the power connector on the fan aligns with the power connector on the appliance.

4) Slide the fan into the slot and press gently to connect the fan to the power connector. The fan should fit securely in the slot. If the fan is loose, it is not inserted correctly.

   **CAUTION:** Do not use excessive force when reinserting fans. Doing so can damage or misalign the power connector.

5) Reattach the fan enclosure plate.

**Replace the back fan on 3201, 3206, and 3207 appliances**

Access the back fan from the fan enclosure on the back panel.

   **Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

**Steps**

1) Unscrew the fan enclosure.

2) Pull the fan enclosure carefully out of the slot.

3) Align the power connector on the fan with the power connector on the appliance.

4) Slide the replacement fan enclosure into the slot and press gently to connect the fan to the power connector.

   **CAUTION:** Do not use excessive force when reinserting fans. Doing so can damage or misalign the power connector.

5) Secure the screw.

**Replace the fans on 3301 and 3305 appliances**

Replace failed fans to ensure proper cooling of the appliance.

   **Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

**Steps**

1) Press the release tabs on the side of the appliance fan to release the fan from its locking position.

2) Remove the fan from the appliance and slide the new fan into the fan housing.
Replace the SSD

Replace an SSD with another of the same model.

The SSD is on the front panel of 3201 and 3205 appliances, and on the back panel of 3202, 3206, 3207, 3301, and 3305 appliances.

There are two SSD slots on the back panel of 3301 and 3305 appliances. Use only the upper slot.

Note: We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

CAUTION: Uninstalled SSDs are sensitive to damage from electrostatic discharge.

Steps

1) Turn off the appliance and disconnect any power cables.

2) Press the release button to release the lever that locks the SSD into position.

3) Pull the lever carefully and remove the SSD from the bay.

4) Remove the SSD from the tray, then insert the new SSD into the tray.

5) Press the release button on the new SSD to release the lever.

6) Insert the SSD into the same bay as the SSD that you removed.

   Important: Only use the upper SSD slot on 3301 and 3305 appliances.

7) Push the lever down to lock the SSD into position.

Replace an interface module

Replace an interface module with the same type or a different type of module.

Note: We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.

Steps

1) Turn off the appliance and disconnect any power cables.

2) Release the module from its locking position by pressing and holding the lever right, then pulling the module carefully out of the slot using the handle or the knob on the module’s front panel.

   Note: If the unlocked module does not move, keep the release lever to the right, press the module gently toward the back of the slot, and pull the module again by the handle or the knob.
3) Insert the new module.

4) Connect the cables and plug the power cables to the system and to the wall outlets.

5) Turn on the appliance.

   **CAUTION:** To ensure proper cooling, do not turn on the appliance if you have not installed an interface module or a placeholder module in each slot.

6) Update the interface configuration.

   a) On the command line of the NGFW Engine, enter the following command to start the NGFW Initial Configuration Wizard:

   ```
   sg-reconfigure
   ```

   b) In the network interface configuration options, make sure that the autodetected information is correct and that all interfaces have been detected.

   If autodetection fails, add network drivers manually. For detailed instructions, see the *Forcepoint Next Generation Firewall Installation Guide*.

   c) If the number of ports in the new module differs from the old module, adjust the mapping of interfaces to interface IDs.

   **CAUTION:** Do not select the Clear action when modifying interface IDs in the NGFW Initial Configuration Wizard on the command line. Selecting Clear removes all mapping information between interface IDs and Ethernet ports, and restores the default values.

   d) On the Prepare for Management Contact page, highlight Finish, then press **Enter**.

   e) If the number of ports in the new module differs from the old module, modify the interface definitions in the Management Client, then refresh the policy to transfer the interface changes to the engine.

   Make sure to use the same interface IDs that you mapped to the interfaces in the NGFW Initial Configuration Wizard for the interface definitions in the Management Client.

---

### Related concepts

- Network settings and cables

---

**Remove SFP transceivers**

Remove or replace an SFP transceiver.

**CAUTION:** Invisible laser radiation is emitted from the end of a fiber-optic cable and from the fiber port. Do not stare into the beam and avoid direct exposure to the beam.

**Note:** We recommend fastening a grounding strap to your wrist so that it contacts your bare skin and attaching the other end of the strap to the appliance.
Steps

1) Turn off the appliance and disconnect any power cables.

2) Unplug all power cables from the system or the wall outlets.

3) Disconnect the cable from the SFP transceiver.

4) Pull down the latch on the transceiver and carefully pull the SFP transceiver out of the port slot.

5) If needed, insert a replacement SFP transceiver in the slot.

Related tasks
Connect network cables to SFP ports on page 35