OUT OF THE BOX

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This Quick Start Guide covers the first time connection procedures for the Netgate® XG-1537 1U Firewall Appliance and will provide the information needed to keep the appliance up and running.
CHAPTER ONE

GETTING STARTED

The basic firewall configuration begins with connecting the pfSense® appliance to the Internet. Neither the modem nor the pfSense appliance should be powered on at this time.

Establishing a connection to an Internet Service Provider (ISP) starts with connecting one end of an Ethernet cable to the WAN port (shown in the Input and Output Ports section) of the pfSense appliance.

**Warning:** The default LAN subnet on the firewall is 192.168.1.0/24. The same subnet cannot be used on both WAN and LAN, so if the subnet on the WAN side of the firewall is also 192.168.1.0/24, disconnect the WAN interface until the LAN interface has been renumbered to a different subnet.

The opposite end of the same Ethernet cable should be inserted into the LAN port of the ISP-supplied modem. The modem provided by the ISP might have multiple LAN ports. If so, they are usually numbered. For the purpose of this installation, please select port 1.

The next step is to connect the LAN port (shown in the Input and Output Ports section) of the pfSense appliance to the computer which will be used to access the firewall console.

Connect one end of the second Ethernet cable to the LAN port (shown in the Input and Output Ports section) of the pfSense appliance. Connect the other end to the network connection on the computer. In order to access the web configurator, the PC network interface must be set to use DHCP, or have a static IP set in the 192.168.1.x subnet with a subnet mask of 255.255.255.0. Do not use 192.168.1.1, as this is the address of the firewall, and will cause an IP conflict.

### 1.1 Initial Setup

The next step is to power up the modem and the firewall. Plug in the power supply to the power port (shown in the Input and Output Ports section).

Once the modem and pfSense appliance are powered up, the next step is to power up the computer.

Once the pfSense appliance is booted, the attached computer should receive a 192.168.1.x IP address via DHCP from the pfSense appliance.

### 1.2 Logging Into the Web Interface

Browse to [https://192.168.1.1](https://192.168.1.1) to access the web interface. In some instances, the browser may respond with a message indicating a problem with website security. Below is a typical example in Google Chrome. If this message or similar message is encountered, it is safe to proceed.
At the login page enter the default pfSense password and username:

- **Username**: admin
- **Password**: pfsense

Click **Login** to continue

### 1.3 Wizard

Upon successful login, the following is displayed.
1.4 Configuring Hostname, Domain Name and DNS Servers

1.5 Hostname

For **Hostname**, any desired name can be entered as it does not affect functionality of the firewall. Assigning a hostname to the firewall will allow the GUI to be accessed by hostname as well as IP address.

For the purposes of this guide, use **pfsense** for the hostname. The default hostname, **pfsense** may be left unchanged.

Once saved in the configuration, the GUI may be accessed by entering **http://pfsense** as well as **http://192.168.1.1**.

1.6 Domain

If an existing DNS domain is in use within the local network (such as a Microsoft Active Directory domain), use that domain here. This is the domain suffix assigned to DHCP clients, which should match the internal network.

For networks without any internal DNS domains, enter any desired domain name. The default **localdomain** is used for the purposes of this tutorial.

1.7 DNS Servers

The DNS server fields can be left blank if the DNS Resolver is used in non-forwarding mode, which is the default behavior. The settings may also be left blank if the WAN connection is using DHCP, PPTP or PPPoE types of Internet...
connections and the ISP automatically assigns DNS server IP addresses. When using a static IP on WAN, DNS server IP addresses must be entered here for name resolution to function if the default DNS Resolver settings are not used.

DNS servers can be specified here even if they differ from the servers assigned by the ISP. Either enter the IP addresses provided by the ISP, or consider using Google public DNS servers (8.8.8.8, 8.8.4.4). Google DNS servers are used for the purpose of this tutorial. Click **Next** after filling in the fields as appropriate.

### 1.8 Time Server Configuration

![Time Server Information](image)

<table>
<thead>
<tr>
<th>Time server hostname</th>
<th>0.pfsense.pool.ntp.org</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time zone</td>
<td>America/Chicago</td>
</tr>
</tbody>
</table>

**Next**

### 1.9 Time Server Synchronization

Setting time server synchronization is quite simple. We recommend using the default pfSense time server address, which will randomly select an NTP server from a pool.

### 1.10 Setting Time Zone

Select an appropriate time zone for the location of the firewall. For purposes of this manual, the Timezone setting will be set to **America/Chicago** for US Central time.

### 1.11 Configuring Wide Area Network (WAN) Type

The WAN interface type is the next to be configured. The IP address assigned to this section becomes the Public IP address that this network will use to communicate with the Internet.
This depicts the four possible WAN interface types. Static, DHCP, PPPoE and PPTP. One must be selected from the drop-down list.

Further information from the ISP is required to proceed when selecting Static, PPPoE and PPTP such as login name and password or as with static addresses, an IP address, subnet mask and gateway address.

DHCP is the most common type of interface for home cable modems. One dynamic IP address is issued from the ISP DHCP server and will become the public IP address of the network behind this firewall. This address will change periodically at the discretion of the ISP. Select DHCP as shown and proceed to the next section.

1.12 MAC Address

If replacing an existing firewall, the WAN MAC address of the old firewall may be entered here, if it can be determined. This can help avoid issues involved in switching out firewalls, such as ARP caches, ISPs locking to single MAC addresses, etc.

If the MAC address of the old firewall cannot be located, the impact is most likely insignificant. Power cycle the ISP router and modem and the new MAC address will usually be able to get online. For some ISPs, it may be necessary to call them when switching devices, or an activation process may be required.

1.13 Configuring MTU and MSS

MTU or Maximum Transmission Unit determines the largest protocol data unit that can be passed onwards. A 1500-byte packet is the largest packet size allowed by Ethernet at the network layer and for the most part, the Internet so leaving this field blank allows the system to default to 1500-byte packets. PPPoE is slightly smaller at 1492-bytes. Leave this blank for a basic configuration.
1.14 Configuring DHCP Hostname

Some ISPs specifically require a **DHCP Hostname** entry. Unless the ISP requires the setting, leave it blank.

1.15 Configuring PPPoE and PPTP Interfaces

Information added in these sections is assigned by the ISP. Configure these settings as directed by the ISP.
1.16 Block Private Networks and Bogons

When enabled, all private network traffic originating on the internet is blocked.

Private addresses are reserved for use on internal LANs and blocked from outside traffic so these address ranges may be reused by all private networks.

The following inbound address Ranges are blocked by this firewall rule:

- 10.0.0.1 to 10.255.255.255
- 172.16.0.1 to 172.31.255.254
- 192.168.0.1 to 192.168.255.254
- 127.0.0.0/8
- 100.64.0.0/10
- fc00::/7

Bogons are public IP addresses that have not yet been allocated, so they may typically also be safely blocked as they should not be in active use.

Check Block RFC1918 Private Networks and Block Bogon Networks.

Click Next to continue.
1.17 Configuring LAN IP Address & Subnet Mask

A static IP address of 192.168.1.1 and a subnet mask (CIDR) of 24 was chosen for this installation. If there are no plans to connect this network to any other network via VPN, the 192.168.1.x default is sufficient.

Click Next to continue.

**Note:** If a Virtual Private Network (VPN) is configured to remote locations, choose a private IP address range more obscure than the very common 192.168.1.0/24. IP addresses within the 172.16.0.0/12 RFC1918 private address block are the least frequently used. We recommend selecting a block of addresses between 172.16.x.x and 172.31.x.x for least likelihood of having VPN connectivity difficulties. An example of a conflict would be if the local LAN is set to 192.168.1.x and a remote user is connected to a wireless hotspot using 192.168.1.x (very common), the remote client won’t be able to communicate across the VPN to the local network.

1.18 Change Administrator Password

Select a new Administrator Password and enter it twice, then click Next to continue.
1.19 Save Changes

Click Reload to save configuration.

1.20 Basic Firewall Configured

To proceed to the webConfigurator, make the selection as highlighted. The Dashboard display will follow.

1.21 Backing Up and Restoring

At this point, basic LAN and WAN interface configuration is complete. Before proceeding, backup the firewall configuration. From the menu at the top of the page, browse to Diagnostics > Backup/Restore.
Click **Download Configuration** and save a copy of the firewall configuration.

This configuration can be restored from the same screen by choosing the backup file under **Restore configuration**.
1.22 Connecting to the Console

There are times when accessing the console is required. Perhaps GUI console access has been locked out, or the password has been lost or forgotten.

See also:

Connecting to the Console Port  Connect to the console. Cable is required.

Tip:  To learn more about getting the most out of your pfSense appliance, sign up for a pfSense Training course or browse our extensive Resource Library.
CHAPTER TWO

INPUT AND OUTPUT PORTS

- Default Configuration
  - Network Ports
  - Network Port LEDs
  - Other I/O
  - Status LEDs
- With 4 Port Intel 1 Gb Ethernet Expansion Card
- With 2 Port Chelsio 10 Gbps Ethernet Expansion Card

2.1 Default Configuration

<table>
<thead>
<tr>
<th>Port</th>
<th>pfSense Label</th>
<th>Interface</th>
<th>Port Type</th>
<th>Port Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>WAN</td>
<td>igb0</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>1</td>
<td>LAN</td>
<td>igb1</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>2</td>
<td>OPT1</td>
<td>ix0</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>3</td>
<td>OPT2</td>
<td>ix1</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
</tbody>
</table>
Note: Both the WAN and LAN ports of the pfSense® appliance support auto-MDIX and are capable of utilizing either straight-through or crossover ethernet cables.

Warning: The iX(4) driver used for ports IX0-IX1 does not support ALTQ traffic shaping directly. Limiters may be used instead, or use tagged VLAN interfaces which can be used with ALTQ traffic shaping.

2.1.2 Network Port LEDs

Both the RJ-45 and SFP+ Network Ports have LEDs indicating status.

RJ-45 Ethernet Ports

Each RJ-45 Ethernet port has two LEDs to indicate connection, activity, and connection speed, as outlined in the table below.

<table>
<thead>
<tr>
<th>Activity LED (Left)</th>
<th>Link Speed LED (Right)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off = No Connection</td>
<td>Amber = 1 Gbps</td>
</tr>
<tr>
<td>Yellow Flashing = Activity</td>
<td>Green = 100 Mbps</td>
</tr>
<tr>
<td></td>
<td>Off = No Connection or 10 Mbps</td>
</tr>
</tbody>
</table>

Note: Reverse the above table for the bottom port as it is inverted.

SFP+ Ports

Between the two SFP+ ports are four triangular LEDs to indicate connection and activity. The triangles point either up or down, indicating the port it is referring to.

<table>
<thead>
<tr>
<th>Left Two LEDs</th>
<th>Right Two LEDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off = No Connection</td>
<td>Green Blinking = Activity</td>
</tr>
<tr>
<td>Green = Connection Established</td>
<td></td>
</tr>
</tbody>
</table>
2.1.3 Other I/O

<table>
<thead>
<tr>
<th>Port</th>
<th>I/O Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>IPMI</td>
</tr>
<tr>
<td>5</td>
<td>2x USB 3.0</td>
</tr>
<tr>
<td>6</td>
<td>VGA</td>
</tr>
<tr>
<td>7</td>
<td>Reset &amp; Power buttons</td>
</tr>
<tr>
<td>8</td>
<td>Status LEDs (see table below)</td>
</tr>
</tbody>
</table>

2.1.4 Status LEDs

![Status LEDs Diagram]
<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8a</td>
<td>Continuously on and red</td>
<td>An overheat condition has occurred. (This may be caused by cable congestion.)</td>
</tr>
<tr>
<td></td>
<td>Blinking red (1Hz)</td>
<td>Fan failure, check for an inoperative fan.</td>
</tr>
<tr>
<td></td>
<td>Blinking red (0.25Hz)</td>
<td>Power failure, check for a non-operational power supply.</td>
</tr>
<tr>
<td></td>
<td>Solid blue</td>
<td>Local UID has been activated. Use this function through IPMI to locate the server in a rack mount environment.</td>
</tr>
<tr>
<td></td>
<td>Blinking blue</td>
<td>Remote UID is on. Use this function through IPMI to identify the server from a remote location.</td>
</tr>
<tr>
<td>8b</td>
<td>Flashing</td>
<td>Indicates network activity on igb1 (upper left port).</td>
</tr>
<tr>
<td>8c</td>
<td>Flashing</td>
<td>Indicates network activity on igb0 (lower left port).</td>
</tr>
<tr>
<td>8d</td>
<td>Flashing</td>
<td>Indicates IDE channel activity on the hard drive.</td>
</tr>
<tr>
<td>8e</td>
<td>Illuminated</td>
<td>Indicates power is being supplied to the system power supply units. This LED should normally be illuminated when the system is operating.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Indicates no power is being supplied to the system power supply. System is powered off.</td>
</tr>
</tbody>
</table>
2.2 With 4 Port Intel 1 Gb Ethernet Expansion Card

<table>
<thead>
<tr>
<th>Port</th>
<th>pfSense Label</th>
<th>Interface</th>
<th>Port Type</th>
<th>Port Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>OPT6</td>
<td>igb0</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>1</td>
<td>OPT5</td>
<td>igb1</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>2</td>
<td>OPT4</td>
<td>igb2</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>3</td>
<td>OPT3</td>
<td>igb3</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>4</td>
<td>WAN</td>
<td>igb4</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>5</td>
<td>LAN</td>
<td>igb5</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>6</td>
<td>OPT1</td>
<td>ix0</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>7</td>
<td>OPT2</td>
<td>ix1</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
</tbody>
</table>

2.3 With 2 Port Chelsio 10 Gbps Ethernet Expansion Card

<table>
<thead>
<tr>
<th>Port</th>
<th>pfSense Label</th>
<th>Interface</th>
<th>Port Type</th>
<th>Port Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>WAN</td>
<td>cxl0</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>1</td>
<td>LAN</td>
<td>cxl1</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>2</td>
<td>OPT1</td>
<td>igb0</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>3</td>
<td>OPT3</td>
<td>igb1</td>
<td>RJ-45</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>4</td>
<td>OPT2</td>
<td>ix0</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>5</td>
<td>OPT4</td>
<td>ix1</td>
<td>SFP+</td>
<td>10 Gbps</td>
</tr>
</tbody>
</table>
CHAPTER
THREE

SAFETY AND LEGAL

• Safety Notices
• Electrical Safety Information
• FCC Compliance
• Industry Canada
• Australia and New Zealand
• CE Marking
• RoHS/WEEE Compliance Statement
  – English
  – Deutsch
  – Español
  – Français
  – Italiano
• Declaration of Conformity
  – Česky [Czech]
  – Dansk [Danish]
  – Nederlands [Dutch]
  – English
  – Eesti [Estonian]
  – Suomi [Finnish]
  – Deutsch [German]
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  – Magyar [Hungarian]
  – Íslenska [Icelandic]
  – Italiano [Italian]
  – Latviski [Latvian]
  – Lietuviškai [Lithuanian]
3.1 Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer

**Warning:** Do not use this product in location that can be submerged by water.

**Warning:** Do not use this product during an electrical storm to avoid electrical shock.

3.2 Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer’s label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
3. This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
   a) Do not substitute the power cord with one that is not the provided approved type. If a 3 prong plug is provided, never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
b) The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.

c) Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.

d) Protective grounding/earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.

e) Protective bonding must be installed in accordance with local national wiring rules and regulations.

3.3 FCC Compliance

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment.

3.4 Industry Canada

This Class B digital apparatus complies with Canadian ICES-3(B). Cet appareil numérique de la classe B est conforme à la norme NMB-3(B) Canada.

3.5 Australia and New Zealand

This is a AMC Compliance level 2 product. This product is suitable for domestic environments.

3.6 CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.

3.7 RoHS/WEEE Compliance Statement

3.7.1 English

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct
disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

3.7.2 Deutsch


3.7.3 Español

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

3.7.4 Français

La directive européenne 2002/96/CE exige que l’équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L’élimination et le recyclage en bonne et due forme ont pour but de lutter contre l’impact néfaste potentiel de ce type de produits sur l’environnement et la santé publique. Pour plus d’informations sur le mode d’élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l’endroit où vous avez acheté le produit.

3.7.5 Italiano

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull’imballo non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.
3.8 Declaration of Conformity

3.8.1 Česky [Czech]

NETGATE tímto prohlašuje, že tento NETGATE device, je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

3.8.2 Dansk [Danish]

Undertegnede NETGATE erklærer herved, at følgende udstyr NETGATE device, overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

3.8.3 Nederlands [Dutch]

Hierbij verklaart NETGATE dat het toestel NETGATE device, in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Bij deze verklaart NETGATE dat deze NETGATE device, voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.

3.8.4 English

Hereby, NETGATE declares that this NETGATE device, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

3.8.5 Eesti [Estonian]

Käesolevaga kinnitab NETGATE seadme NETGATE device, vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

3.8.6 Suomi [Finnish]

NETGATE vakuuttaa tätän että NETGATE device, tyypin laite on direktiivin 1999/5/EY oleellisten vaatimusten ja siitä koskevien direktiivin muiden ehtojen mukainen. Français [French] Par la présente NETGATE déclare que l’appareil Netgate, device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

3.8.7 Deutsch [German]

Hiermit erklärt Netgate, dass sich diese NETGATE device, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet”. (BMWi)

3.8.8 Ελληνικά [Greek]

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ΝΕΤΓΕΤΕ ΔΗΛΩΝΕΙ ΟΤΙ ΝΕΤΓΕΤΕ device, ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1995/5/ΕΚ.
3.8.9 Magyar [Hungarian]

Alulírott, NETGATE nyilatkozom, hogy a NETGATE device, megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

3.8.10 Íslenska [Icelandic]

Hér me l sir NETGATE yfir ví a NETGATE device, er í samræmi vi grunnkröfur og a rar kröfur, sem ger ar eru í tilskipun 1999/5/EC.

3.8.11 Italiano [Italian]

Con la presente NETGATE dichiara che questo NETGATE device, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

3.8.12 Latviski [Latvian]

Ar o NETGATE deklar , ka NETGATE device, atbilst Direkt vas 1999/5/EK b tiskaj m pras b m un citiem ar to saist tajiem noteikumiem.

3.8.13 Lietuviškai [Lithuanian]

NETGATE deklaruoja, kad šis NETGATE įrenginys atitinka esminius reikalavimus ir kitas 1999/5/EB Direktvyvos nuostatas.

3.8.14 Malti [Maltese]

Hawnhekk, Netgate, jiddikjara li dan NETGATE device, jikkonforma mal- ti ijiet essenzjali u ma provvedimenti o rajn relevanti li hemm fid-Direttiva 1999/5/EC.

3.8.15 Norsk [Norwegian]

NETGATE erklærer herved at utstyret NETGATE device, er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

3.8.16 Slovensky [Slovak]

NETGATE t mto vyhlasuje, e NETGATE device, sp a základné po iadavky a v etky príslu né ustanovenia Smernice 1999/5/ES.

3.8.17 Svenska [Swedish]

Härmed intygar NETGATE att denna NETGATE device, står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
3.8.18 Español [Spanish]

Por medio de la presente NETGATE declara que el NETGATE device, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

3.8.19 Polski [Polish]

Niniejszym, firma NETGATE oświadcz, e produkt serii NETGATE device, spełnia zasadnicze wymagania i inne istotne postanowienia Dyrektywy 1999/5/EC.

3.8.20 Português [Portuguese]

NETGATE declara que este NETGATE device, está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

3.8.21 Română [Romanian]

Prin prezenta, NETGATE declară că acest dispozitiv NETGATE este în conformitate cu cerintele esentiale și alte prevederi relevante ale Directivei 1999/5/CE.

3.9 Disputes

ANY DISPUTE OR CLAIM RELATING IN ANY WAY TO YOUR USE OF ANY PRODUCTS/SERVICES, OR TO ANY PRODUCTS OR SERVICES SOLD OR DISTRIBUTED BY RCL OR ESF WILL BE RESOLVED BY BINDING ARBITRATION IN AUSTIN, TEXAS, RATHER THAN IN COURT. The Federal Arbitration Act and federal arbitration law apply to this agreement.

THERE IS NO JUDGE OR JURY IN ARBITRATION, AND COURT REVIEW OF AN ARBITRATION AWARD IS LIMITED. HOWEVER, AN ARBITRATOR CAN AWARD ON AN INDIVIDUAL BASIS THE SAME DAMAGES AND RELIEF AS A COURT (INCLUDING INJUNCTIVE AND DECLARATORY RELIEF OR STATUTORY DAMAGES), AND MUST FOLLOW THE TERMS OF THESE TERMS AND CONDITIONS OF USE AS A COURT WOULD.

To begin an arbitration proceeding, you must send a letter requesting arbitration and describing your claim to the following:

Rubicon Communications LLC
Attn.: Legal Dept.
4616 West Howard Lane, Suite 900
Austin, Texas 78728
legal@netgate.com

The arbitration will be conducted by the American Arbitration Association (AAA) under its rules. The AAA’s rules are available at www.adr.org. Payment of all filing, administration and arbitrator fees will be governed by the AAA’s rules.

We each agree that any dispute resolution proceedings will be conducted only on an individual basis and not in a class, consolidated or representative action. We also both agree that you or we may bring suit in court to enjoin infringement or other misuse of intellectual property rights.

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3.10 Applicable Law

By using any Products/Services, you agree that the Federal Arbitration Act, applicable federal law, and the laws of the state of Texas, without regard to principles of conflict of laws, will govern these terms and conditions of use and any dispute of any sort that might arise between you and RCL and/or ESF. Any claim or cause of action concerning these terms and conditions or use of the RCL and/or ESF website must be brought within one (1) year after the claim or cause of action arises. Exclusive jurisdiction and venue for any dispute or claim arising out of or relating to the parties’ relationship, these terms and conditions, or the RCL and/or ESF website, shall be with the arbitrator and/or courts located in Austin, Texas. The judgment of the arbitrator may be enforced by the courts located in Austin, Texas, or any other court having jurisdiction over you.

3.11 Site Policies, Modification, and Severability

Please review our other policies, such as our pricing policy, posted on our websites. These policies also govern your use of Products/Services. We reserve the right to make changes to our site, policies, service terms, and these terms and conditions of use at any time.

3.12 Miscellaneous

If any provision of these terms and conditions of use, or our terms and conditions of sale, are held to be invalid, void or unenforceable, the invalid, void or unenforceable provision shall be modified to the minimum extent necessary in order to render it valid or enforceable and in keeping with the intent of these terms and conditions. If such modification is not possible, the invalid or unenforceable provision shall be severed, and the remaining terms and conditions shall be enforced as written. Headings are for reference purposes only and in no way define, limit, construe or describe the scope or extent of such section. Our failure to act with respect to a breach by you or others does not waive our right to act with respect to subsequent or similar breaches. These terms and conditions set forth the entire understanding and agreement between us with respect to the subject matter hereof, and supersede any prior oral or written agreement pertaining thereto, except as noted above with respect to any conflict between these terms and conditions and our reseller agreement, if the latter is applicable to you.

3.13 Limited Warranty

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Connecting to the VGA console is identical to connecting any computer to a monitor. Just connect the VGA cable (DB-15) between the pfSense® system and the monitor. Use USB or PS/2 keyboard and mouse as applicable to your hardware.

**Note:** If your system has both USB 2.0 (black) and USB 3.0 (blue) ports, use the USB 2.0 ports, as USB 3.0 is not supported in earlier versions of pfSense.

**Note:** If your system has both VGA and serial, it is possible that the boot console will default to serial. If your boot process seems to hang after mounting the root volume, please see [Boot Troubleshooting](#).
ACCESSING IPMI AND CHANGING IPMI PASSWORD

In compliance with new privacy legislation, the Username and Password to access the IPMI port on the Netgate XG-1537 1U has been changed to a unique password on each device. Netgate started shipping systems with this change beginning February 21, 2020.

Prior to February 21, 2020, the IPMI Username and Password were ADMIN/ADMIN.

After February 21, 2020, the IPMI Username is still ADMIN, the password is located on a sticker on the bottom of the XG-1537 as shown below.

![IPMI Password Sticker Location](image)

**Fig. 1: IPMI Password Sticker Location**

Note: The password is alpha-numeric and the letters are capital letters.
5.1 Changing the IPMI Password

1. To change the IPMI password, begin by accessing the IPMI GUI using a web browser and the IPMI IP Address. Log in to the IPMI console.

![Log Into IPMI](image)

Fig. 2: Log Into IPMI

2. Navigate to Configuration -> Users.

3. Highlight the Administrator and click Modify User.

4. Check the box by Change Password, enter the new password and confirm it by typing it a second time, then click Modify.

5. Click OK on the message window that says “Modified user successfully.”
Fig. 3: Configuration -> Users

Fig. 4: Modify User
Fig. 5: Change Password and click Modify

Fig. 6: Click OK
REINSTALLING PFSENSE SOFTWARE

1. Please open a support ticket to request access to the factory firmware by selecting Firmware Access as the General Problem and then select Netgate XG-1537 1U for the platform. Make sure to include the serial number in the ticket to expedite access.

Once the ticket is processed, the latest stable version of the firmware will be attached to the ticket, with a name such as:

pfSense-netgate-memstick-2.4.4-RELEASE-p3-amd64.img.gz

Note: The pfSense® factory version is the version that is preinstalled on Netgate appliances. The factory image is optimally tuned for our hardware and contains some features that cannot be found elsewhere, such as the AWS VPN Wizard.

2. Write the image to a USB memstick. Locating the image and writing it to a USB memstick is covered in detail under Writing Flash Drives.

3. **Connect to the console port** of the pfSense device.

4. Insert the memstick into an open USB port and boot the system.

5. After a minute the pfSense loader menu will be displayed with a 3 second timer. Either allow the menu to timeout or press 1 (the default) to continue.

6. Console options are presented for serial console installation. The default option is **vt100**, which should work for most. Choose the correct console output for your system.

   Please choose the appropriate terminal type for your system.
   Common console types are:
   - ansi    Standard ANSI terminal
   - vt100   VT100 or compatible terminal
   - xterm   xterm terminal emulator (or compatible)
   - cons25w cons25w terminal

7. The installer will automatically launch and several options will be presented. On Netgate appliances, choosing Enter for the default options will complete the installation process.

   **Note:** Options such as the type of disk partition can be modified through this installation if required.

8. Once the installer is finished, choose No and press Enter to skip going to a shell.

9. The installer will then prompt to Reboot the system. Select Reboot and press Enter. The system will shutdown and reboot.
Dec 21 22:41:37 Waiting (max 60 seconds) for system process `vnlru` to stop... done
Waiting (max 60 seconds) for system process `bufdaemon` to stop... done
Waiting (max 60 seconds) for system process `syncer` to stop...
Syncing disks, vnodes remaining... 0 0 done
All buffers synced.
Uptime: 5m43s
umass0: detached
umass1: detached
uhub1: detached

10. Remove the USB drive from the USB port.

**Important:** If the USB drive remains attached, the system will boot into the installer again because by default the system firmware is configured so that a device plugged into the USB port will be booted with a higher priority.

**See also:**

For information on restoring from a previously saved configuration, go to Backup and Restore.
7.1 Netgate Training

Netgate training offers training courses for increasing your knowledge of pfSense® products and services. Whether you need to maintain or improve the security skills of your staff or offer highly specialized support and improve your customer satisfaction; Netgate training has got you covered.

https://www.netgate.com/training

7.2 Resource Library

To learn more about how to use your pfSense appliance and for other helpful resources, make sure to browse our Resource Library.

https://www.netgate.com/resources

7.3 Professional Services

Support does not cover more complex tasks such as CARP configuration for redundancy on multiple firewalls or circuits, network design, and conversion from other firewalls to pfSense®. These items are offered as professional services and can be purchased and scheduled accordingly.

https://www.netgate.com/our-services/professional-services.html

7.4 Community Options

If you elected not to get a paid support plan, you can find help from the active and knowledgeable pfSense community on our forums.

https://forum.netgate.com/
WARRANTY AND SUPPORT

- One year manufacturer’s warranty.
- Please contact Netgate for warranty information or view our Product Lifecycle page.
- All Specifications subject to change without notice

For support information, view our support plans.

See also:

For more information on how to use pfSense® software, see the pfSense Documentation and Resource Library.