Check Point 2200 and 2200B
Installing and Removing Memory

⚠️ **Important** - We recommend that only experienced personnel install or remove hardware components. Installing or removing components incorrectly can permanently damage the appliance.

Preparing the Appliance

Before you start to install or remove memory DIMMs, make sure that:

- You can connect to the WebUI or CLI to shut down the appliance.
- The appliance is in a clean environment and on a level surface.
- You can physically access and open the cover of the appliance.
- You have the Check Point memory DIMM upgrade kit.

⚠️ **Important** - To protect the appliance and the memory modules from electrostatic discharge damage, make sure that you are properly grounded before you touch these components. Read the **Health and Safety Information** in the *Check Point 2200 Appliances Getting Started Guide* before you start to prepare the appliance.

We recommend that you use the grounding wrist strap that is included in the upgrade kit.
Upgrade Kit Contents

- Installation guide - Check Point 2200 and 2200B Installing and Removing Memory
- Memory DIMMs
- Screwdriver
- Upgrade kit sticker
- ESD grounding strap (anti-static)

To prepare the appliance:

1. Use one of these options to shut down the appliance:
   - From the WebUI or the CLI
   - Use the power switch to turn off the power
2. Remove the power cords from the appliance.
3. Remove the warranty sticker from the appliance cover screw.
4. Turn over the appliance, so that it is lying on its cover.
5. Remove the appliance cover screws.
   
   **Note** - Only use the screwdriver that is included in the upgrade kit to open and replace the appliance cover.

6. Turn over the appliance, so that the cover is at the top.
7. Put on the ESD strap and attach the other end to a grounding point.
8. Remove the top cover from the appliance.
Check Point 2200 and 2200B lying on its cover

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bottom of the appliance</td>
</tr>
<tr>
<td>2</td>
<td>Four appliance cover screws</td>
</tr>
</tbody>
</table>

**Note** - Two screws are located on the bottom of the appliance
DIMM Configuration

These are the memory configurations for the 2200 and 2200B appliances:

- 2200 appliance (default) - One 2GB DIMM in the lower slot.
- 2200 appliance (upgraded) - Two 2GB DIMMs, one in the lower and one in the upper slot. Total RAM 4GB.
- 2200B appliance - One 4GB DIMM in the lower slot.

To upgrade a 2200 appliance to a 4GB configuration:
Insert the additional 2GB DIMM in the upper slot.

To replace a DIMM:
1. Remove the old DIMM from the appliance.
2. Insert the new one.
Installing Memory DIMMs

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Front panel ports</td>
</tr>
<tr>
<td>2</td>
<td>Hard disk drive</td>
</tr>
<tr>
<td>3</td>
<td>Fan</td>
</tr>
<tr>
<td>4</td>
<td>Memory socket with two DIMM slots</td>
</tr>
</tbody>
</table>
To remove a memory DIMM from the appliance:

1. Find the DIMM memory socket on the system board.
   The basic memory configuration of the appliance ships with one DIMM installed.
2. Using your index fingers, press on the white retaining clips outward.
3. Remove the DIMM from the memory socket.
To insert memory DIMMs in the appliance:

1. Find the DIMM memory socket on the system board.
2. Align the DIMM diagonally to the lower memory socket.
   
   **Note** - The top of the DIMM is smooth. The bottom edge has two different-length sets of contacts, which connect to the slots on the socket. Only touch the top of the DIMM. Pressing on other DIMM components can damage the hardware.

3. Firmly press down on the DIMM and lock it into the lower socket.
   
   ![DIMM insertion diagram]

   The retaining clips move into the lock position as you press the DIMM into the socket.

   **Important** - Make sure that there are no leftover parts inside the appliance.

4. For an upgraded 2200 appliance, repeat the previous steps for the second DIMM.

5. Make sure the DIMM is installed correctly.
   
   a) Replace the appliance cover without using the appliance cover screws.
   
   b) Connect the power cord to the appliance.
   
   c) Turn on the appliance.
   
   d) Make sure that the appliance starts correctly.

6. Use the appliance cover screws to secure the cover on the appliance.
Attaching the New Warranty Sticker

After you install the new DIMM, attach the new warranty sticker on the appliance.

⚠️ **Important** - Failing to attach the new warranty sticker correctly will void the appliance warranty.

To attach the new warranty sticker:

1. Make sure that the appliance operates correctly.
2. Attach the new warranty sticker from the upgrade kit to the appliance.
   The warranty sticker covers an appliance cover screw.
3. Clearly write this information on the sticker:
   - Date of upgrade
   - Current RAM memory configuration of the appliance