Rack installation instructions

Review the documentation that comes with your rack cabinet for safety and cabling information. Before you install the server in a rack cabinet, review the following guidelines:

- Make sure that the room air temperature is below 35°C (95°F).
- Do not block any air vents; usually 15 cm (6 in.) of air space in the rear and 5 cm (2 in.) in the front provides proper airflow.
- Plan the device installation starting at the bottom of the rack cabinet.
- Install the heaviest device in the bottom of the rack cabinet.
- Do not extend more than one device out of the rack cabinet at the same time.
- Remove the rack doors and side panels to provide easier access during installation.
- Connect the server to a properly grounded outlet.
- Do not overload the power outlet when you install multiple devices in the rack cabinet.
- The slide rails in this kit come preset to the correct length for installation in an IBM rack cabinet, and they are adjustable for other rack cabinets.
- The slide rails are marked (RIGHT/FRONT and LEFT/FRONT) for correct placement on the rack-cabinet flanges.

This symbol identifies a Caution statement. Always read the information that accompanies this symbol before you proceed with the installation.

Safety Information, Statement 4

Use safe practices when lifting.

≥18 kg (39.7 lb)

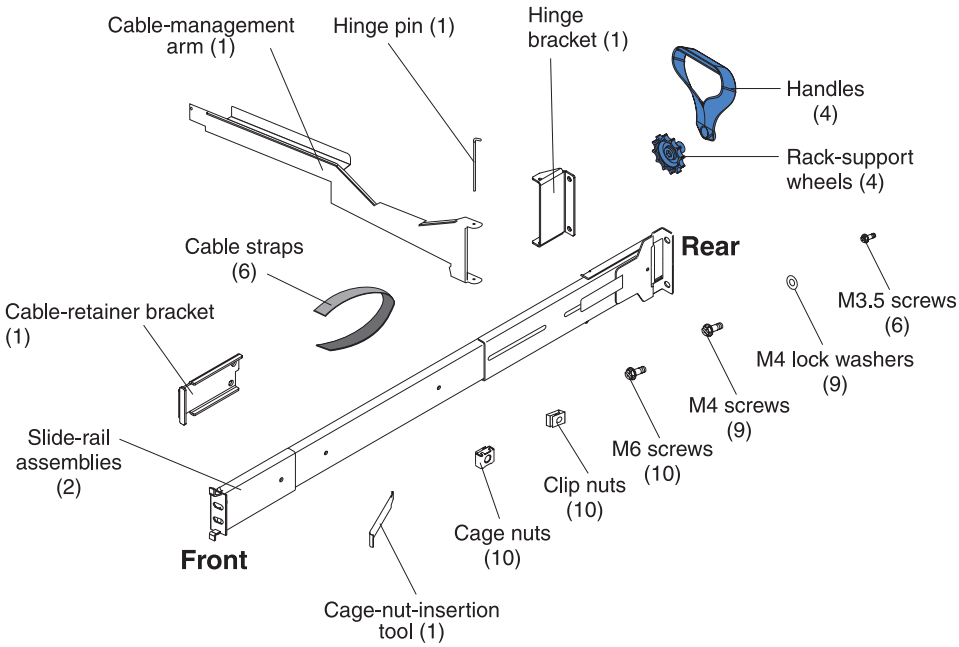
≥32 kg (70.5 lb)

≥55 kg (121.2 lb)

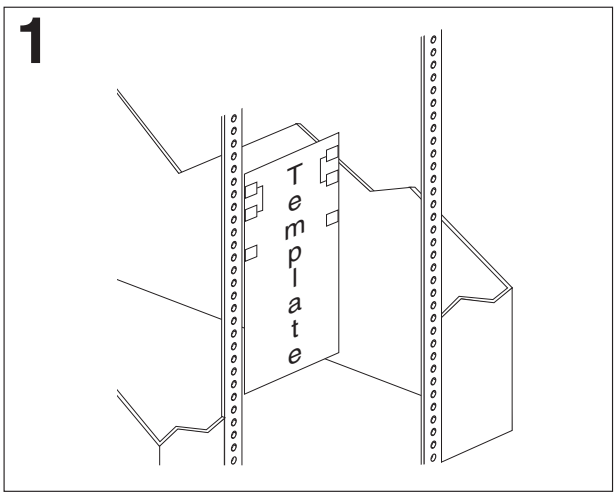
Safety Information, Statement 26

CAUTION:
Do not place any object on top of rack-mounted devices.

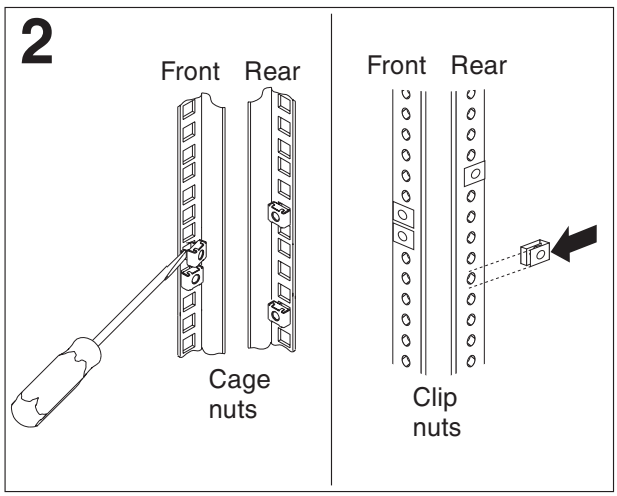
You will need a flat-blade screwdriver and a Phillips screwdriver during the installation. The following illustration shows the items that you need for installing the server in a rack cabinet. If any items are missing or damaged, contact your place of purchase.



Installing the server in the rack

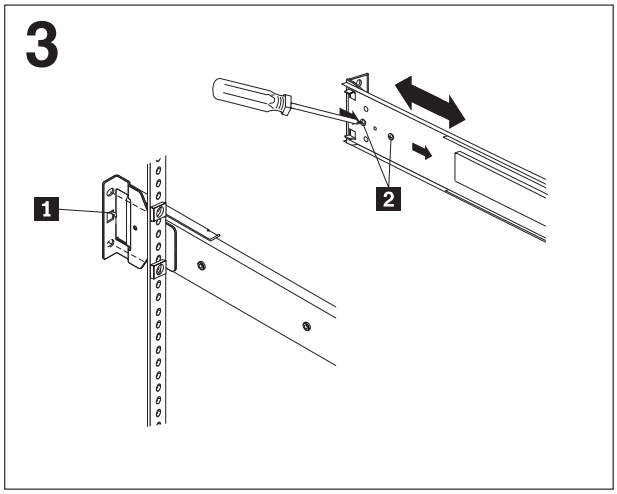


Position the template on the rack so that the edges of the template do not overlap any other devices that are to be installed. Line up and select the holes on the front and rear of the rack in the locations that are indicated by the arrows on the attached template.



Use the cage-nut-insertion tool or a screwdriver to install the cage nuts or the clip nuts on the inside of the mounting rail, as required for your rack, into the selected holes.

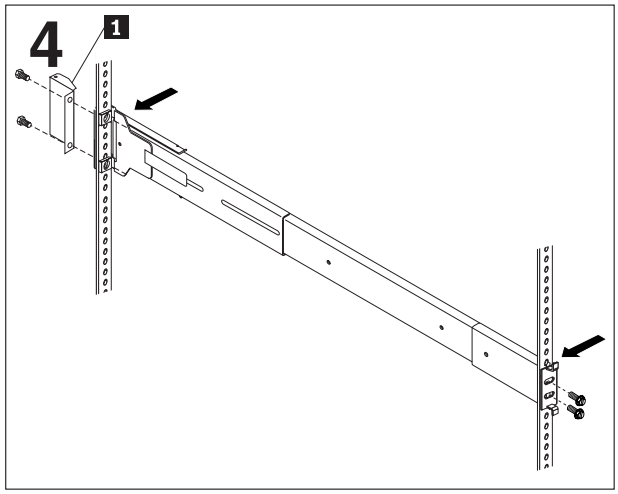
Note: For racks with square holes, use the cage nuts. For racks with round holes, use clip nuts.



Use the tab **1** on the rear of the slide rails to align the slide rail to the rear of the rack cabinet. If it is necessary to adjust the length of the slide rail, loosen the screws **2** one-half turn on the rear of the rail.

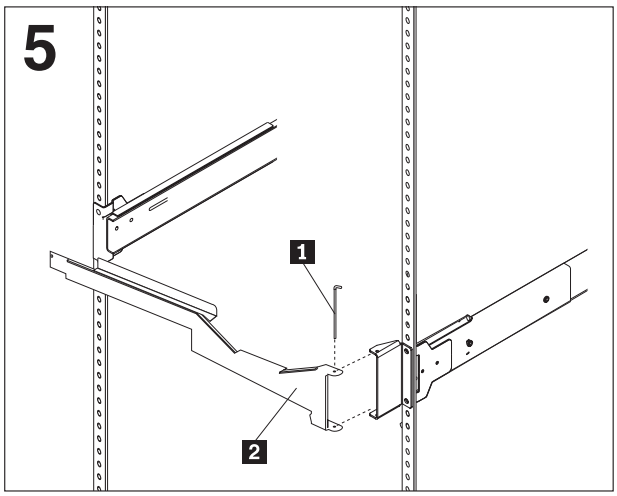
Notes:

1. The slide rail adjustment screws are very short. Do not loosen the screw more than one full turn.
2. The slide rails are labeled for the left and right.

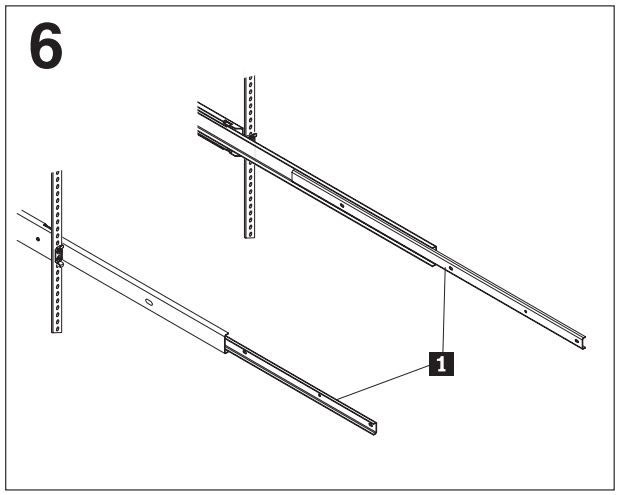


Use two M6 screws to attach the slide rail to the front of the rack cabinet (the left front of the rack cabinet is shown in this step); then, use two M6 screws to attach the slide rail and hinge bracket **1** on the right rear of the rack cabinet.

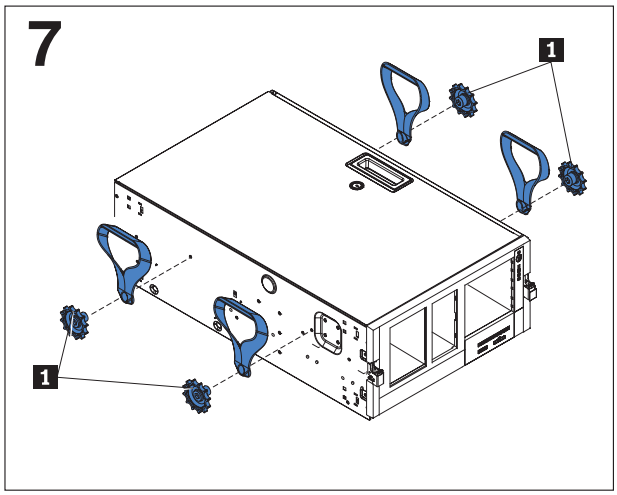
If you loosened the screws to adjust the length of the rail, tighten them now; then, repeat steps 3 and 4 for the other slide rail without a hinge bracket.



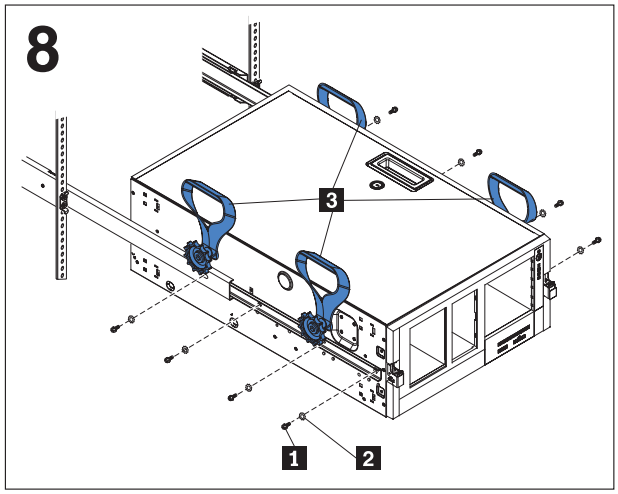
Use the hinge pin **1** to attach the cable-management arm **2** to the hinge bracket.



Fully extend the slide rails **1** out of the rack.



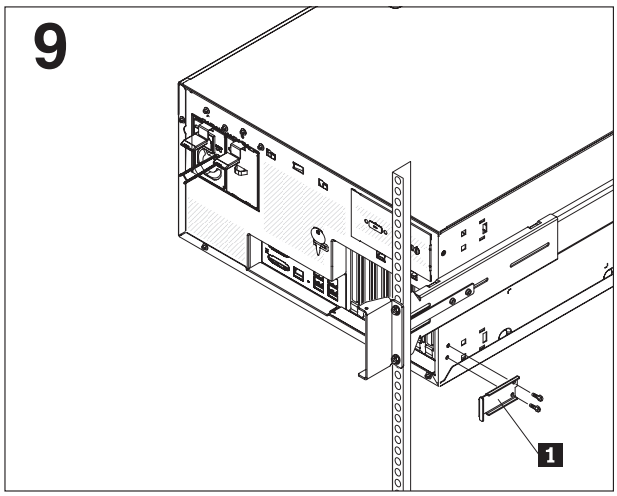
Attach the blue handles and rack-support wheels **1** to the sides of the server. (The blue rack-support wheels are used to help align the server as you install it in the rack. You will be instructed to remove them and the blue handles later.)



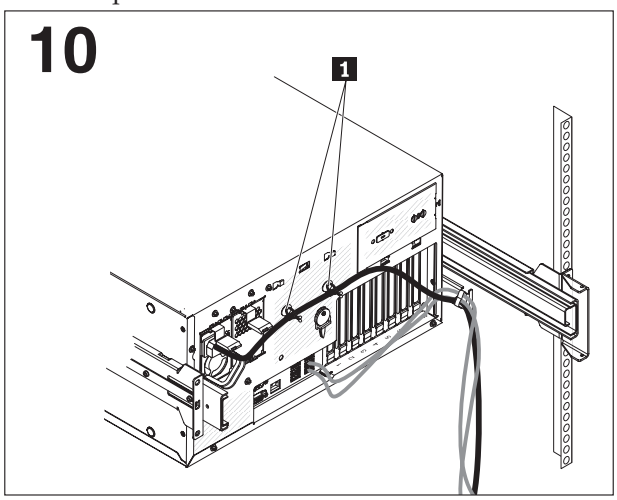
Attention: To avoid injury, do not place your fingers around the blue rack-support wheels when you lower the server onto the rails.

Using the blue handles, lift the server above the rails; then, rest the rack-support wheels on the slide rails. Lower the front of the server onto the slide rails.

Place the M4 lockwashers **2** on the M4 screws **1**; then, use the M4 screws and lockwashers to secure the server to the rails. Unscrew the rack-support wheels and handles **3** and store them for potential future use.

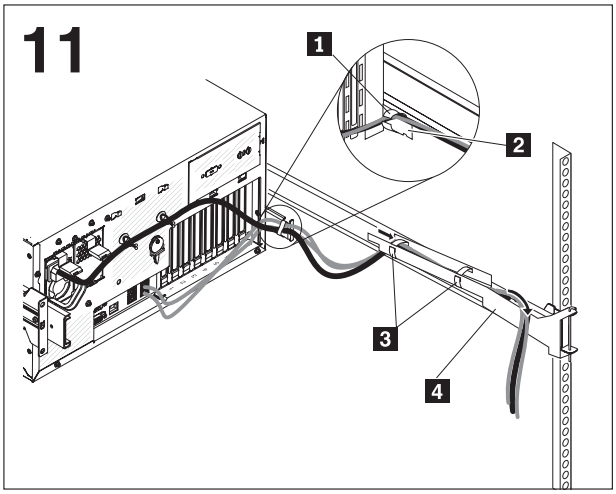


Use two M3.5 screws to attach the cable-retainer bracket **1** that comes in the kit to the left rear of the server chassis.



Attach the power cables as needed to the power supplies; then, rotate them through the strain reliefs **1**.

Attach the keyboard, mouse, and monitor cables (if required) and any other required cables to the server. Grasp the cables and bundle them together, allowing approximately 2 inches of slack, and secure the cables together as shown in the illustration, using a cable strap **2**.



Use another cable strap **1** to attach keyboard, mouse, and monitor cables (if required) and any other required cables to the cable-retainer bracket **2** on the left rear of the chassis.

Use cable straps **3** to secure cables to the cable-management arm **4**.

See the server documentation to complete the installation.

Store these instructions with the documentation that comes with the server.

To remove the server from the rack, reverse these instructions.

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