IBM

Rack Installation Instructions for IBM Gen-II Slides Kit

Review the documentation that comes with the rack cabinet for safety and cabling information. Before you install the server in a rack cabinet, review the following guidelines:
- Two or more people are required to install devices 2U or larger in a rack cabinet.
- 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 space provides proper airflow.
- Do not leave open spaces above or below an installed server in your rack cabinet. To help prevent damage to server components, always install a blank filler panel to cover the open space and to help ensure proper air circulation.
- Install the server only in a rack cabinet with perforated doors.
- Plan the device installation starting from 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.
- Install the server in a rack that meets the following requirements:
    - Minimum depth of 70 mm (2.76 in.) between the front mounting flange and inside of the front door.
    - Minimum depth of 157 mm (6.18 in.) between the rear mounting flange and inside of the rear door.
    - Minimum depth of 718 mm (28.27 in.) and maximum depth of 762 mm (30 in.) between the front and rear mounting flanges to support the use of the cable management arm.

    Note: The maximum distance between the front and the rear EIA rails of the rack is 810 mm (31.9 in.).

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Use safe practices when lifting.

≥18 kg (39.7 lb)   ≥32 kg (70.5 lb)   ≥55 kg (121.2 lb)

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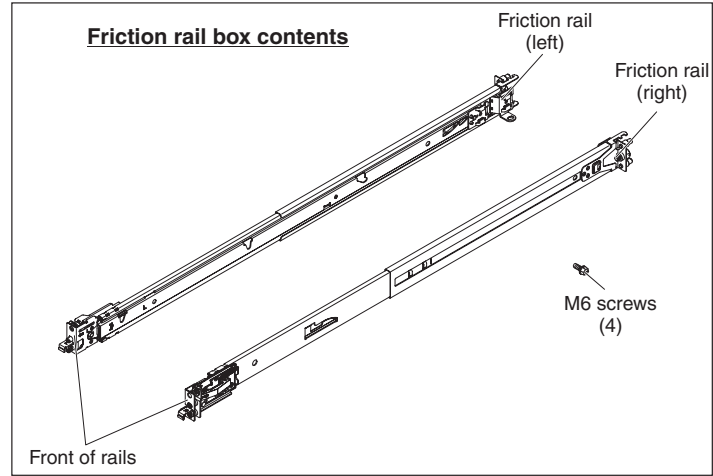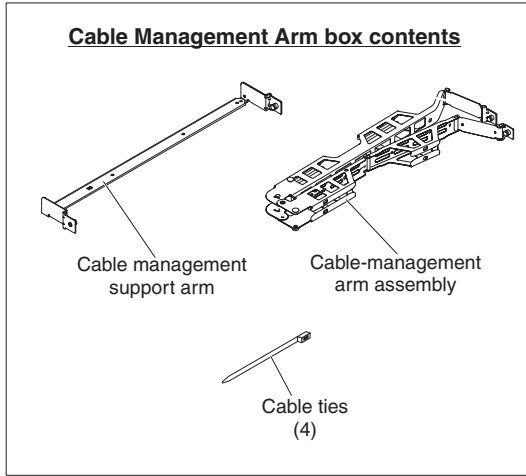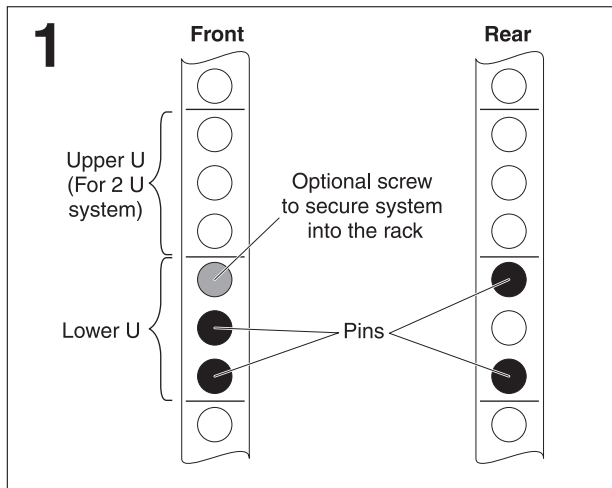Do not place any object on top of rack-mounted devices.

Notes:
1. Cage nuts and clip nuts are not required to install the server in a rack cabinet.
2. You can install the cable management arm on either side of the server. These instructions are shown with the cable management arm mounted on the left side. The installation instructions in this document can be reversed if you are installing the cable management arm on the side of the server not shown.

The following illustration shows the items that you need to install the server in the rack cabinet. If any items are missing or damaged, contact your place of purchase.
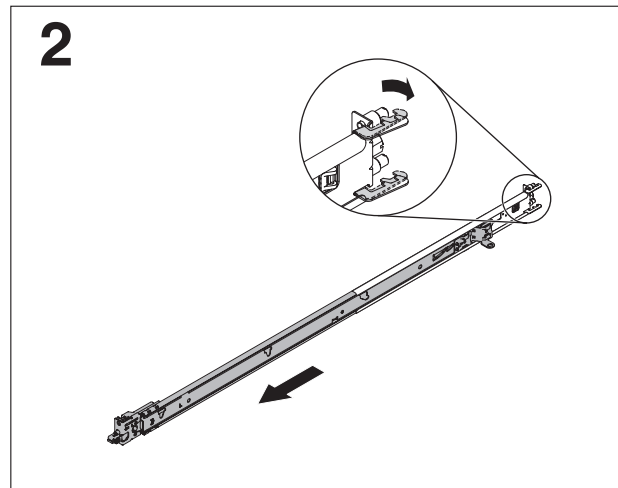
Note: You will need the contents from the slide rail box and the cable management arm box for this installation.

Cable Management Arm box contents

Cable management support arm

Cable-management arm assembly

Cable ties (4)

Friction rail box contents

Friction rail (left)

Friction rail (right)

M6 screws (4)

Front of rails

Note: If the slide rails in your rack installation kit came with shipping thumbscrews, remove them before you begin the following installation procedure.
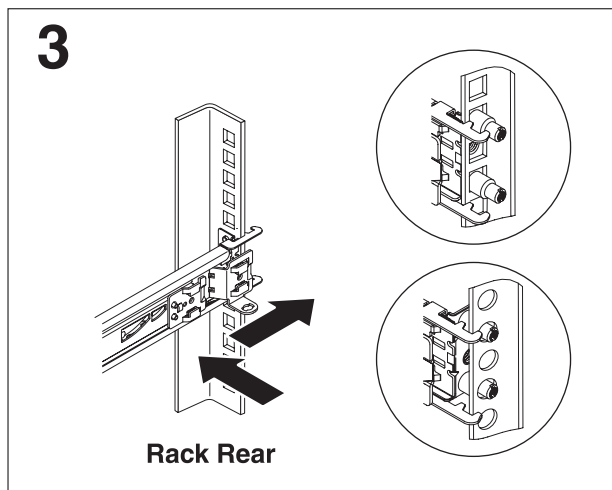

Select an available 1 U or 2 U space (depending on the server you are installing) in your rack to install your server.

Open the rear slide rail hooks.

Each slide rail is marked with either an R (right) or an L (left). Select one of the slide rails and pull the rear bracket all the way back. If a thumbscrew is installed in the slide rail, remove it.
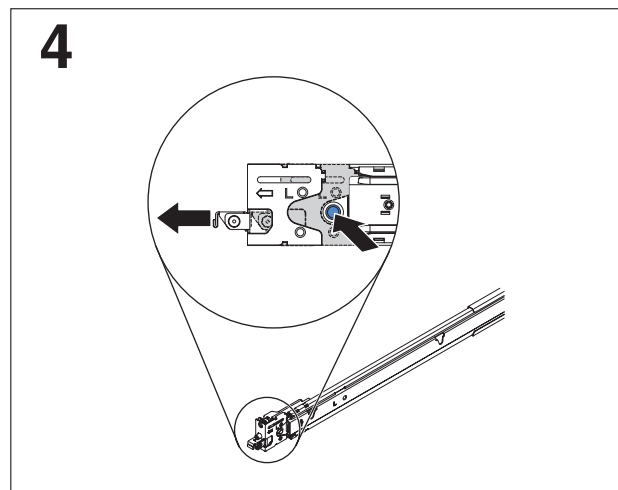

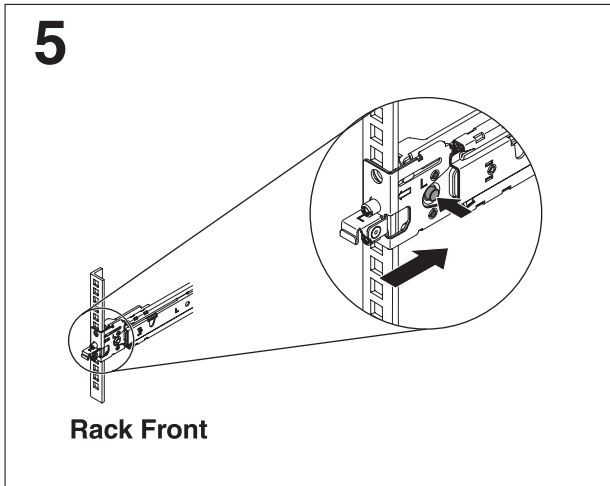**Install the rear end of the slide rails.**

Notes:

1. If you are installing the slide rails into a 1U space with devices already installed directly above and below this 1U space, you will need to extend the slide rails to slide the rear of the slide rails into the rear of the rack.

2. When you install a 2U server, be sure to install the slide rails in the bottom U of the 2U area in the rack.

From the front of the rack, line up the two pins on the rear of the slide rail in the selected U on the rear of the rack. Push the rails so that the pins go into the holes and slide the rails into the rack to lock the rear of the slide rails into the rack

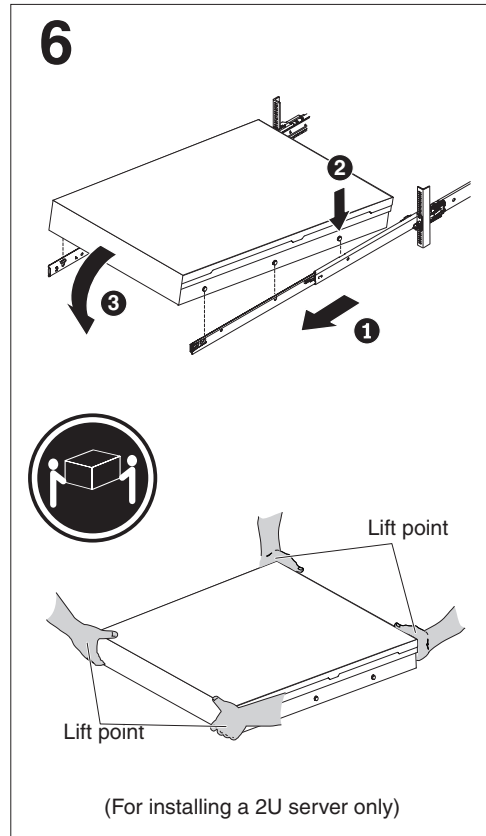**Install the front end of the slide rails.**

Push the blue button to allow the latch to slide forward. Then pull the slide rail forward and locate the front latch in the appropriate U space in front of the rack EIA rail. Adjust the length of the rail.

5

Rack Front

6

Lift point

Lift point

(For installing a 2U server only)

Install the front end of the slide rails.

Press the blue button to release the bracket. Push the front latch in all the way. Make sure the latch is fully engaged.
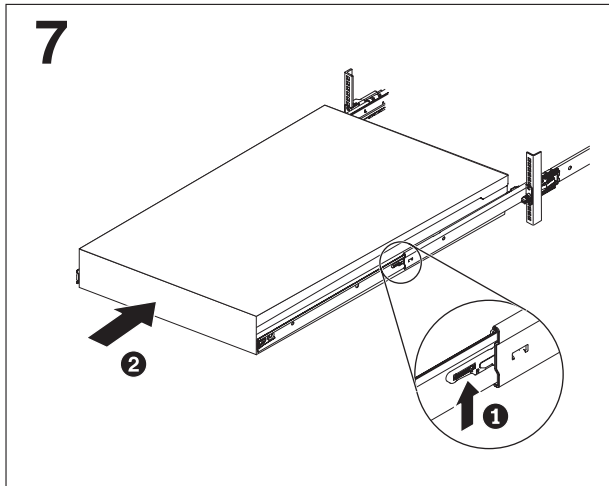
Repeat steps 1 through 5 to install the other rail into the rack. Make sure that each front latch is fully engaged.

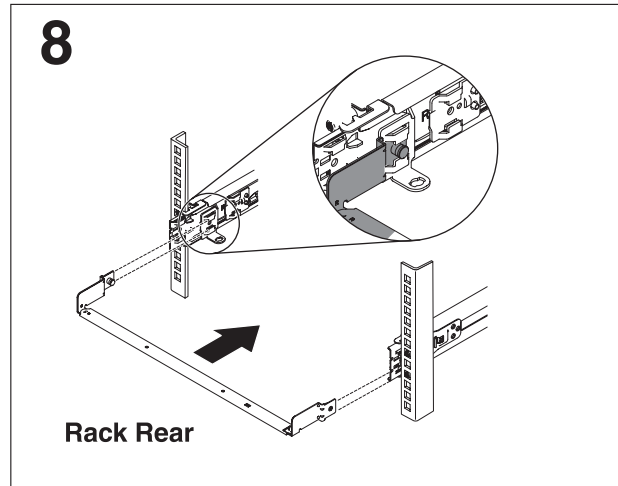**Install the server on the slide rails.**

Note: If you are installing a 2U server, make sure that you have two people when lifting the server. Their hands should be positioned as illustrated.

Pull the slide rails forward **1** until they click, two times, into place. Carefully lift the server and tilt it into position over the slide rails so that the rear nail heads **2** on the server line up with the slide rails. Slide the server down until the rear nail heads slip into the two rear slots, and then slowly lower the front of the server **3** until the other nail heads slip into the other slots on the slide rails.
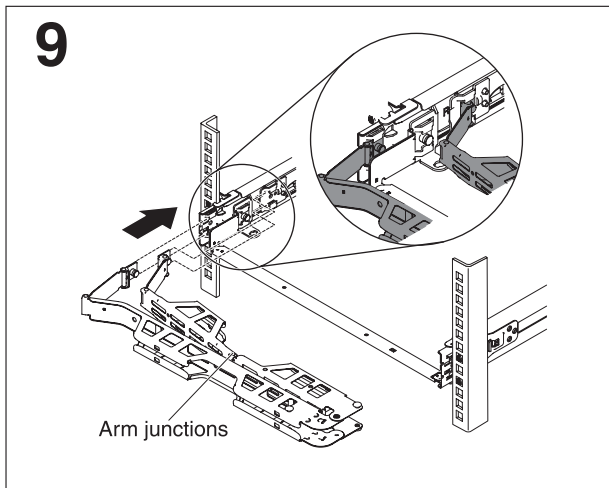
4

7

Slide the server into the rack.

Lift the locking levers **1** on the slide rails and push the server **2** all the way into the rack until it clicks into place.

8

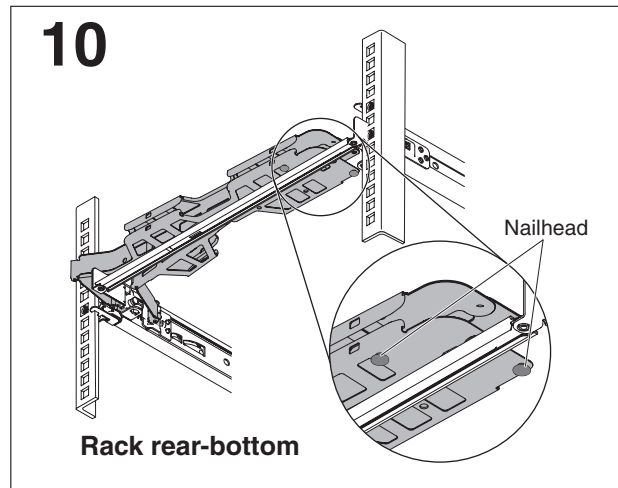

Rack Rear

Install the cable management support arm.

Insert both ends of the cable management support arm to the slide rail.

9

Arm junctions

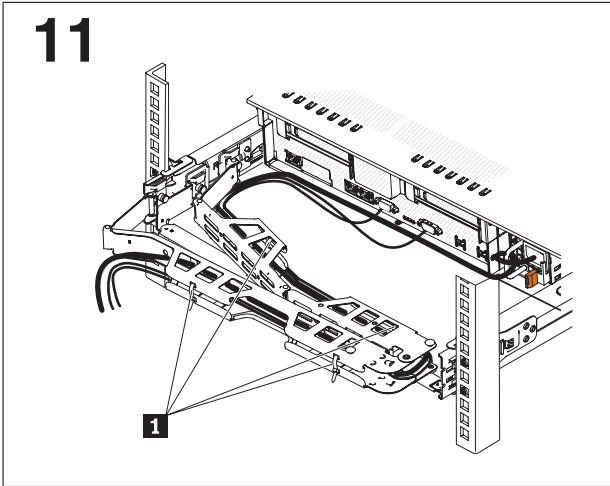**Install the cable management arm.**

Note: Make sure the arm with junctions is facing the server.

Place the cable management arm on the support arm. Pull out both cable management arm pins and then slide the cable management arm tabs into the slots on both inside and outside of the slide rail. Push the tabs until they snap into places.

10

Nailhead

Rack rear-bottom

Adjust the location of the cable management arm.

Make sure that the support rail is located between the 2 nailhead features.
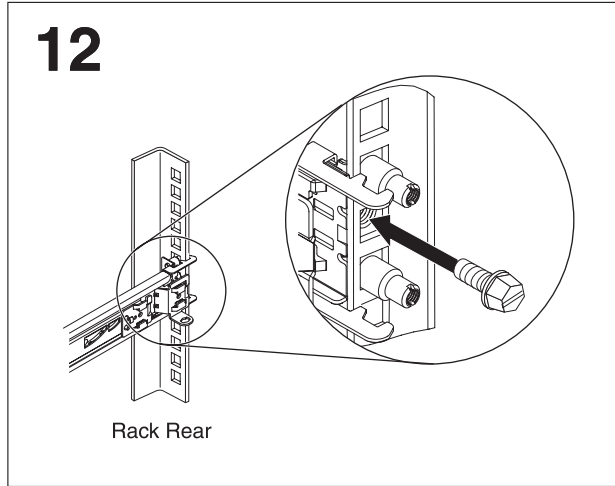
11

Connect and route the cables.

Attach the power cords and other cables to the rear of the server (including keyboard, monitor, and mouse cables, if required).
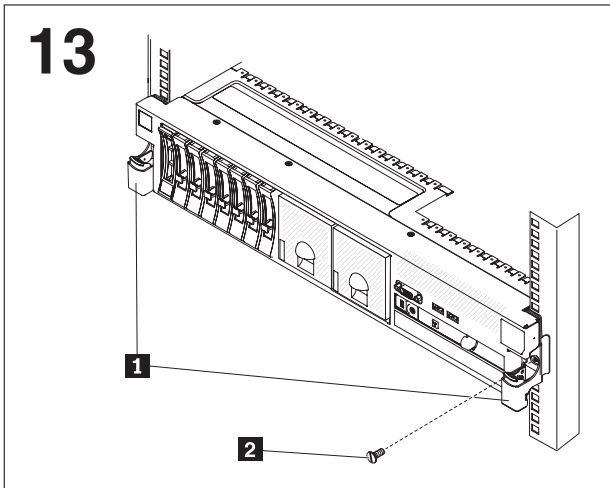
Route the cables and power cords on the cable management arm **1** and secure them with cable ties or hook-and-loop fasteners.

Note: Allow slack in all cables to avoid tension in the cables as the cable management arm moves.

12

Rack Rear

Secure the cable management arm and the server in the rack for shipping if needed.

Insert the M6 screws to the rear of the slides. Use a cable tie to secure the free end of the cable management arm to the rack if needed.
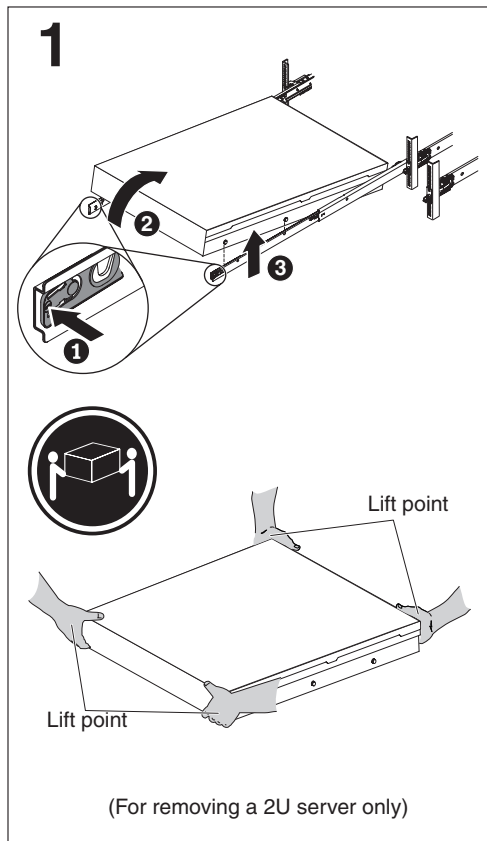
13

Install the front screws.

Slide the server into the rack until it snaps into place. To slide the server out of the rack, press on the release latches **1** .
Note: When you move the rack cabinet, or if you install the rack cabinet in a vibration-prone area, insert the M6 screws **2** in the front of the server.

1

Lift point

Lift point
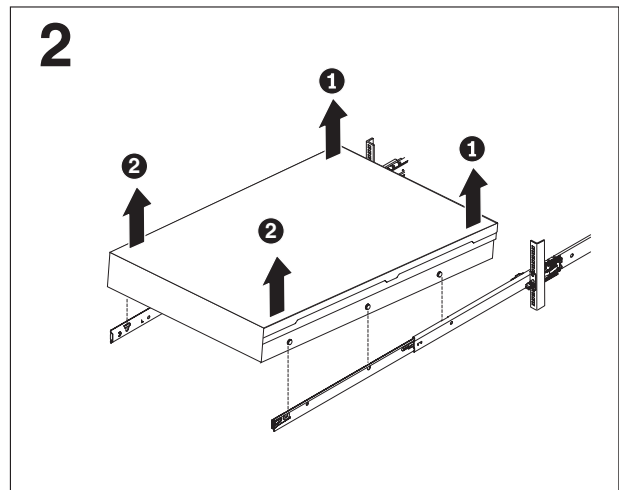
(For removing a 2U server only)

2

Unlatch and rotate the front of the server..

Notes:

1. If you are removing a 2U server, make sure that you have two people when lifting the server. Their hands should be positioned as illustrated.

2. Do not lean rear nailhead on the rail while removing the server.

To remove the server from the rack, disconnect the cables from the rear of the server. Remove the cable management arm by pulling the pins out while sliding the tabs out of the mounting location.
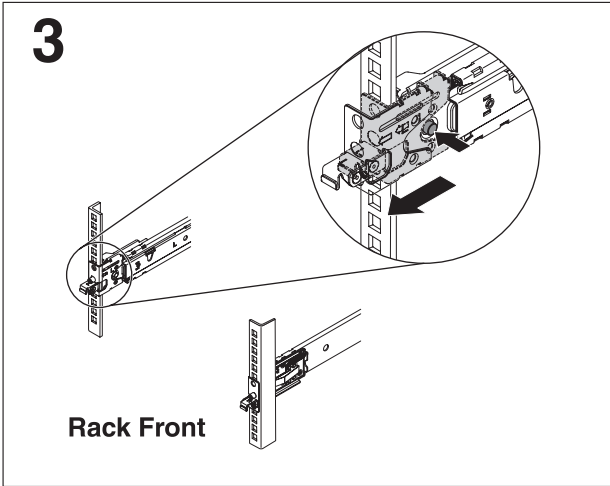
Pull the locking levers **1** forward, while supporting the rear of the server, and lift the front of the server up slightly **2** to clear the nailhead **3** from the slot.
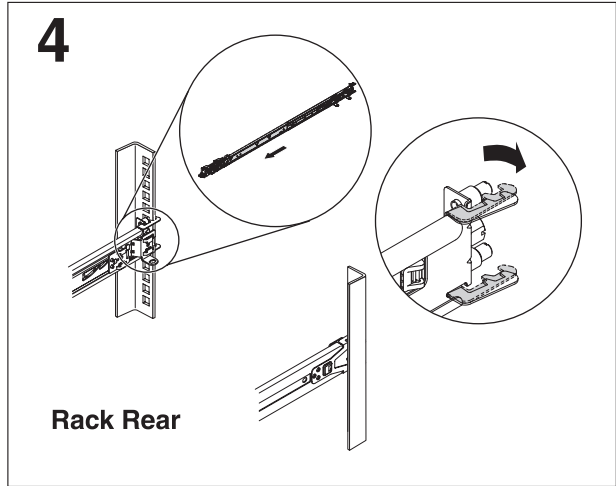
Lift the server off of the slide rails.

After the front nailheads clear the latches, lift up on the rear **1** of the server to level the server. Lift the server out of the rack **2** and place it on a sturdy surface.

Note: Use safe practices while lifting.

3

Rack Front

4

Rack Rear

Remove the front end of the slide rails.

To remove the slide rails from the front of the rack, push up the front tab and slide out the front latch. Press the blue button and lift up slightly on the front of the slide rail. Remove the slide rail from the rack.

Remove the rear end of the slide rails..

To disengage the slide rails from the rear of the rack, pull the slide rail forward to unlatch the rear hooks and take the rails out of the rack.

Store this information with your server documentation for future use.

(1P) P/N: 00D9198