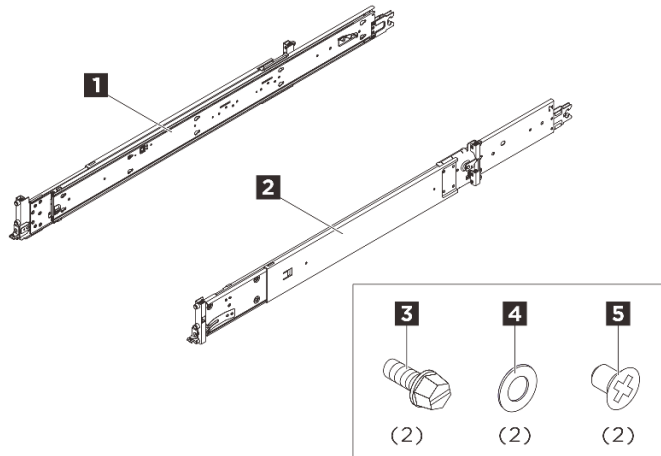


# Rail Installation Guide

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## Rail kit parts inventory

This slide rail kit includes the following parts:



- 1** One left rail
- 2** One right rail
- 3** Two M5 screws
- 4** Two washers
- 5** Two M4 screws

**Notes:**

- This kit can be installed in both square hole and round hole rack.
- If any parts are missing, contact local service.
- If you need to lift the server manually, have the lift handles on site beforehand. The lift handles are shipped with the server if ordered.

## Read these guidelines first

Read the following guidelines before installing the rail kit and server to the rack.

- The maximum rail travel distance is 960 mm (37.80 inches).
- Install the server to a rack that meets the following requirements:
  - Minimum depth of 65 mm (2.55 inches) between the front mounting flanges and inside of the front door.
  - Minimum depth of 1060 mm (41.73 inches) between the front mounting flanges and inside of the rear door.
  - The maximum distance between the front and rear mounting flanges is 838.2 mm (33 inches).
  - To install the rails and a 0U PDU into the same rack, the rack must meet the following height and depth requirements:
    - 42U or higher
    - Without CMA: at least 1100-mm (43.31-inch) deep
    - With CMA: at least 1200-mm (47.24-inch) deep
  - Only install the server into a rack with perforated doors. Remove the rack doors and side panels for easy access during installation.
  - When installing multiple units, start with installing the heaviest device to the lowest part of the rack.
  - See the *User Guide* for the requirements of room air temperature.
  - Do not block any air vents. Spare at least 15 cm (6 inches) of space for proper airflow.
  - Do not leave the unoccupied space above or below an installed server in the rack empty. To prevent damage to server components, always install filler panels to cover unoccupied space to ensure proper air circulation.
  - Do not leave more than one server slid out from the rack at the same time.

- Do not overload the power outlet when multiple devices are installed in the rack.

#### **S037**



#### **CAUTION:**

The weight of this part or unit is more than 55 kg (121.2 lb). It takes specially trained persons, a lifting device, or both to safely lift this part or unit.



#### **CAUTION:**

Use safe practices when lifting.



#### **CAUTION:**

Drop hazard.



#### **CAUTION:**

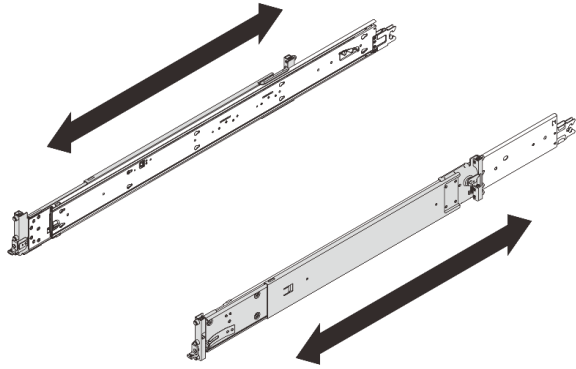
Do not place any object on top of a rack-mounted device unless that rack-mounted device is intended for use as a shelf.

#### **Server replacement**

To remove the server or the rails from the rack, refer to the "Hardware replacement procedures" chapter in the server *User Guide*. Search your server and select its *User Guide* at Lenovo server product portfolio page: <https://pubs.lenovo.com/>.



# Install the rail kit to the rack



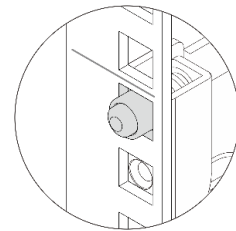
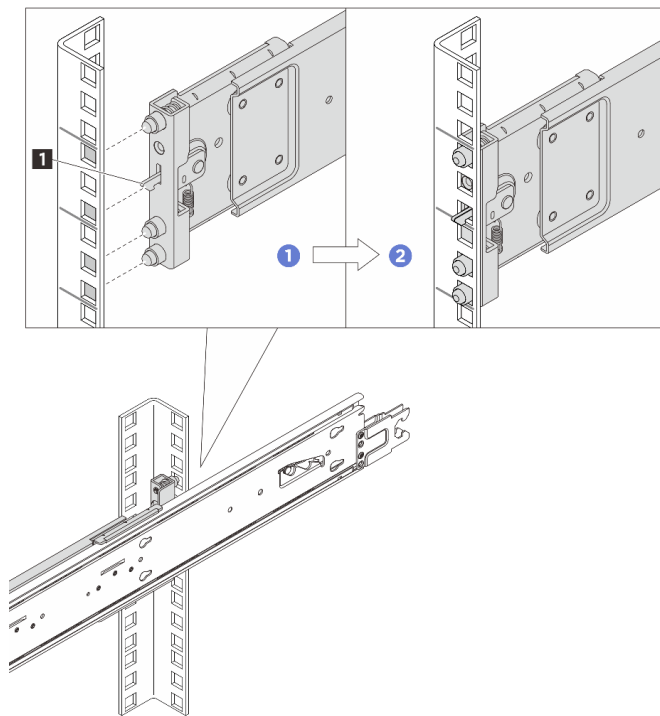
## Notes:

- The rails are extensible as shown in the illustration.
- Install the rail to the rack, starting from the rear and proceeding to the front.
- Make sure the rail is shortened to the shortest position.
- The rail mounting pins take up 2U space. Follow the U space marking on the rack when installing the rail kit.

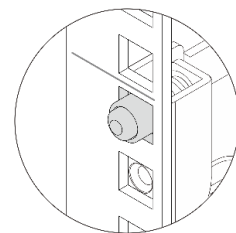
Step 1. Install the rear mounting pins to the rack.

**Note:** There are two rails, left rail (marked with L) and right rail (marked with R). Make sure that you install each rail to the corresponding side of the rack.

## Rear (left rail)



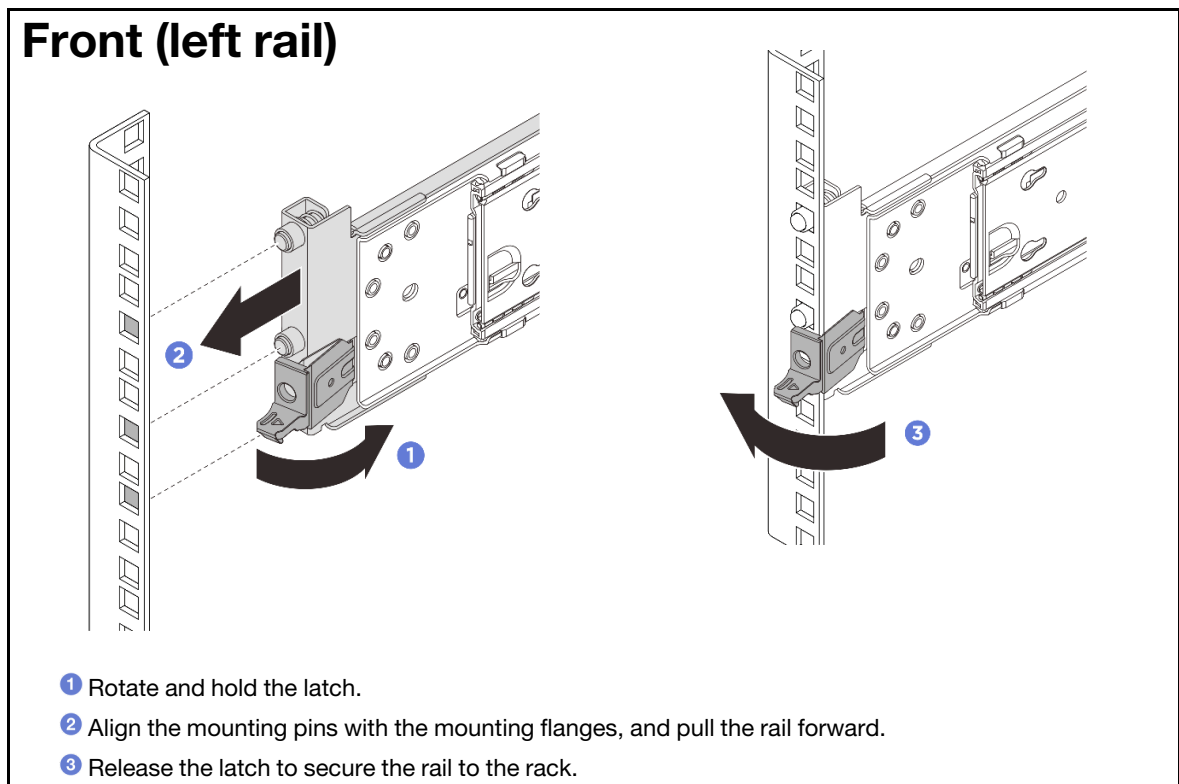
Square hole rack



Round hole rack

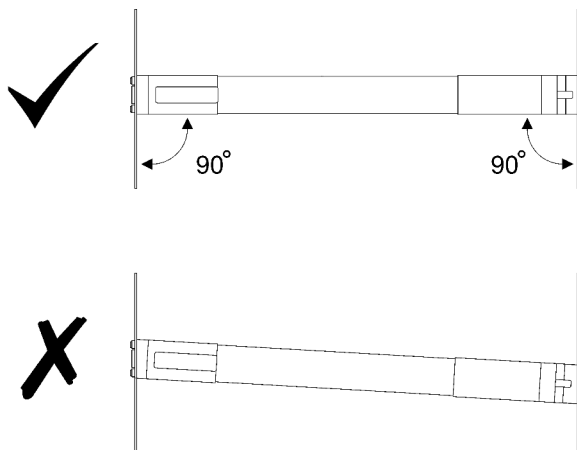
- 1 Align the mounting pins and the hook latch **1** with the rack flanges.
- 2 Push the rail in until the latch clicks into place.

Step 2. Install the front mounting pins to the rack.



Step 3. Make sure that the rail is securely engaged in the flange holes by inspecting that the hook has caught and by sliding back and forward to ensure the rail does not pop out.

**Important:** Make sure both ends of the rail are seated at the same height.



Step 4. Repeat the previous steps to install the other rail.

# Install the server to the rack

Step 1. Lift the server and place it on a flat and stable surface.

Using a lift device: (recommended)



**CAUTION:**

The weight of this part or unit is more than 55 kg (121.2 lb). It takes specially trained persons, a lifting device, or both to safely lift this part or unit.

Manual lift: (not recommended)

**Attention:** Before lifting the server, remove all power supply units and all storage drives.



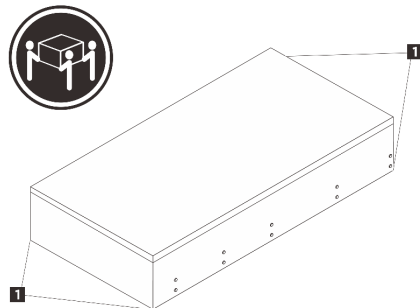
**CAUTION:**

Use safe practices when lifting.



**CAUTION:**

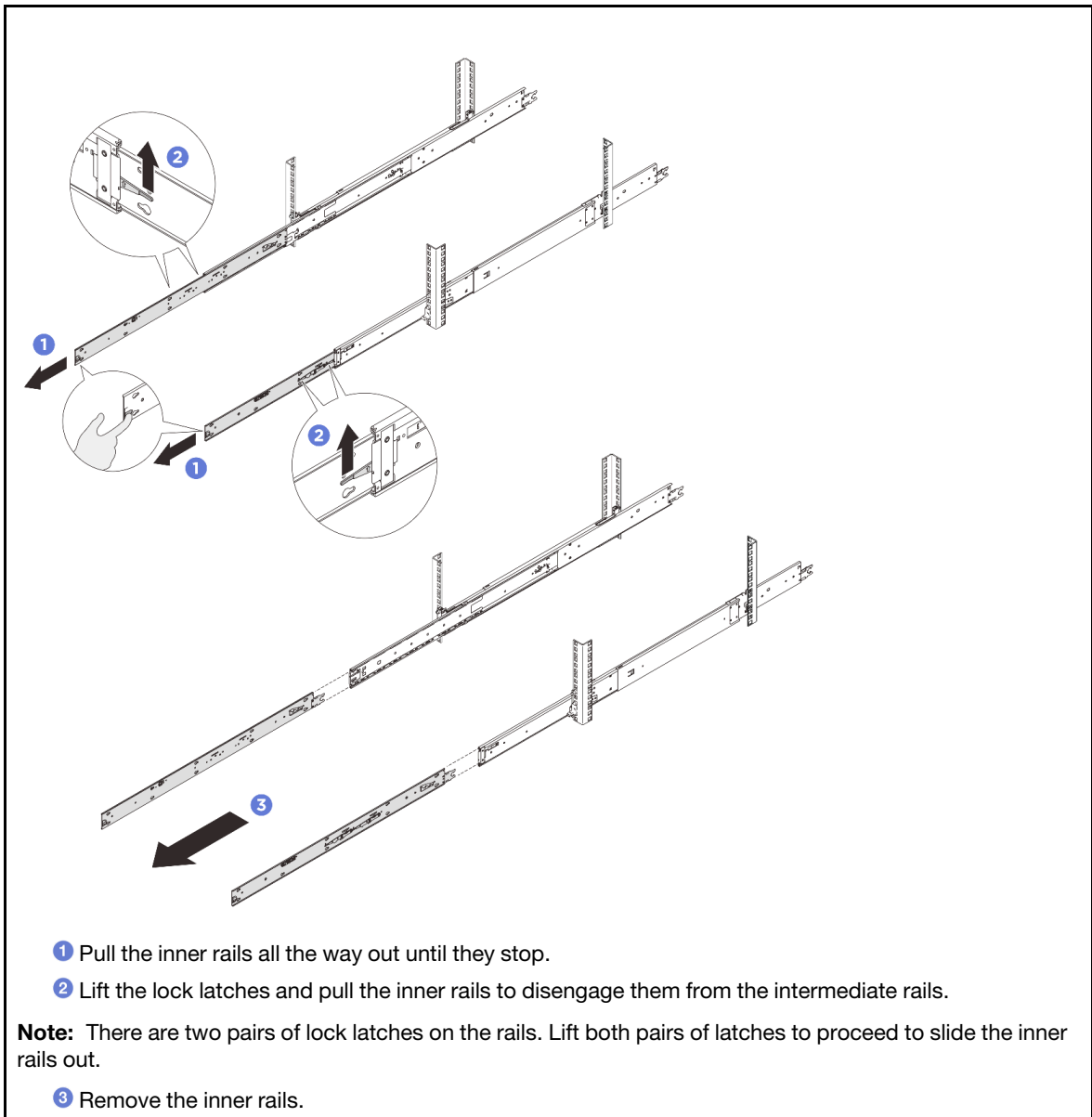
Drop hazard.



**CAUTION:**

Make sure three people are lifting the server by holding the lift points **1**.

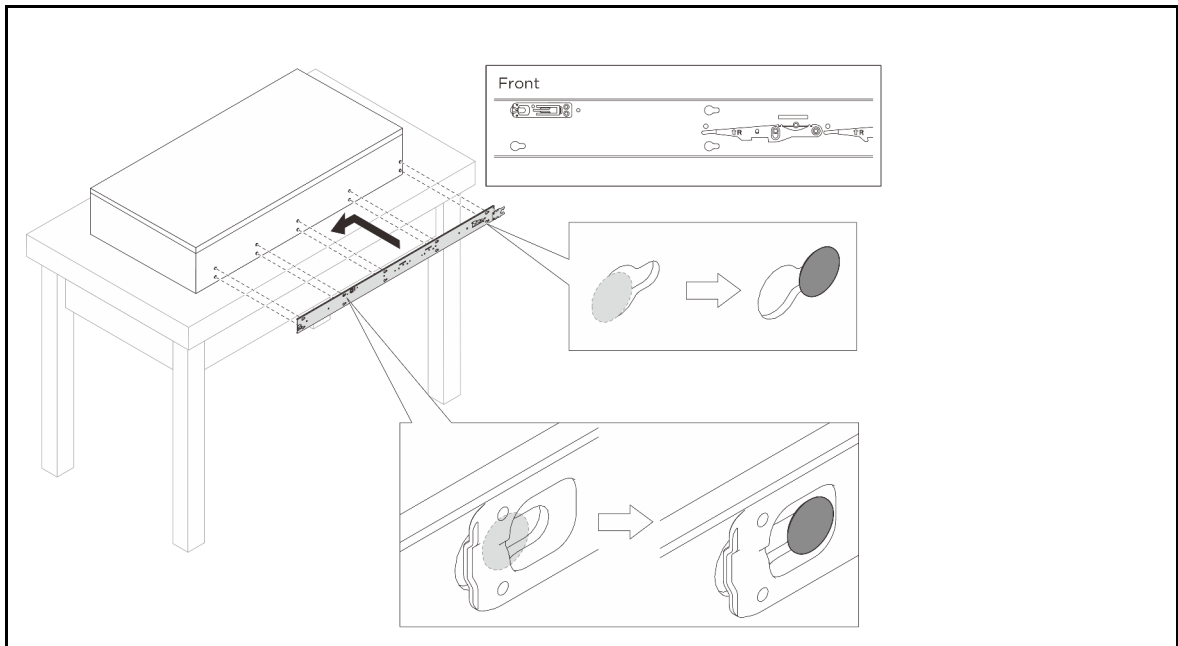
Step 2. Remove the inner rails from the intermediate rails.



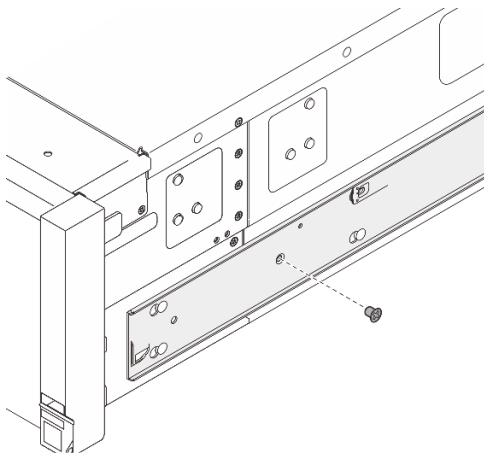
Step 3. Align the slots on the inner rail with the corresponding T-pins on the side of the server; then, slide the inner rail forwards until the T-pins lock into place with the inner rail. Make sure all T-pins are engaged with the inner rail.

**Attention:**

- There are two inner rails, left rail (marked with L) and right rail (marked with R). Ensure that each rail is installed to the corresponding side of the server.
- Make sure that the stamp “Front” always faces toward the front when assembling the inner rails to the server.

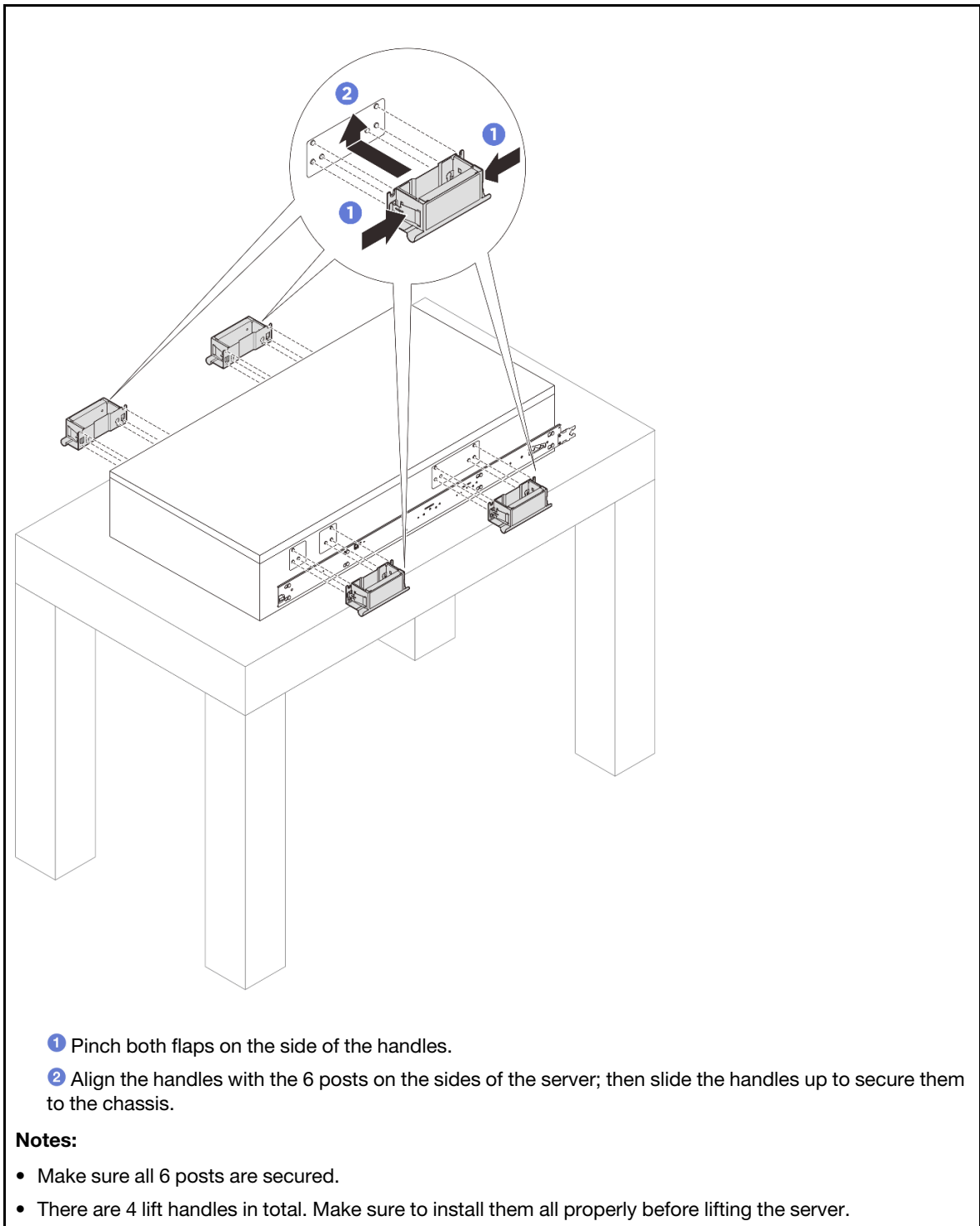


Step 4. Insert and tighten an M4 screw to secure the inner rail as shown.



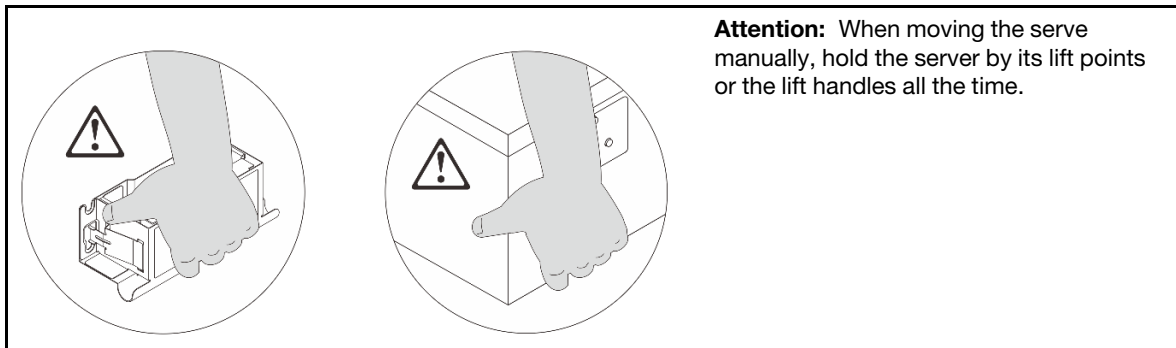
Step 5. Repeat the previous two steps on the other inner rail.

Step 6. Attach the lift handles if you need to lift the server manually.



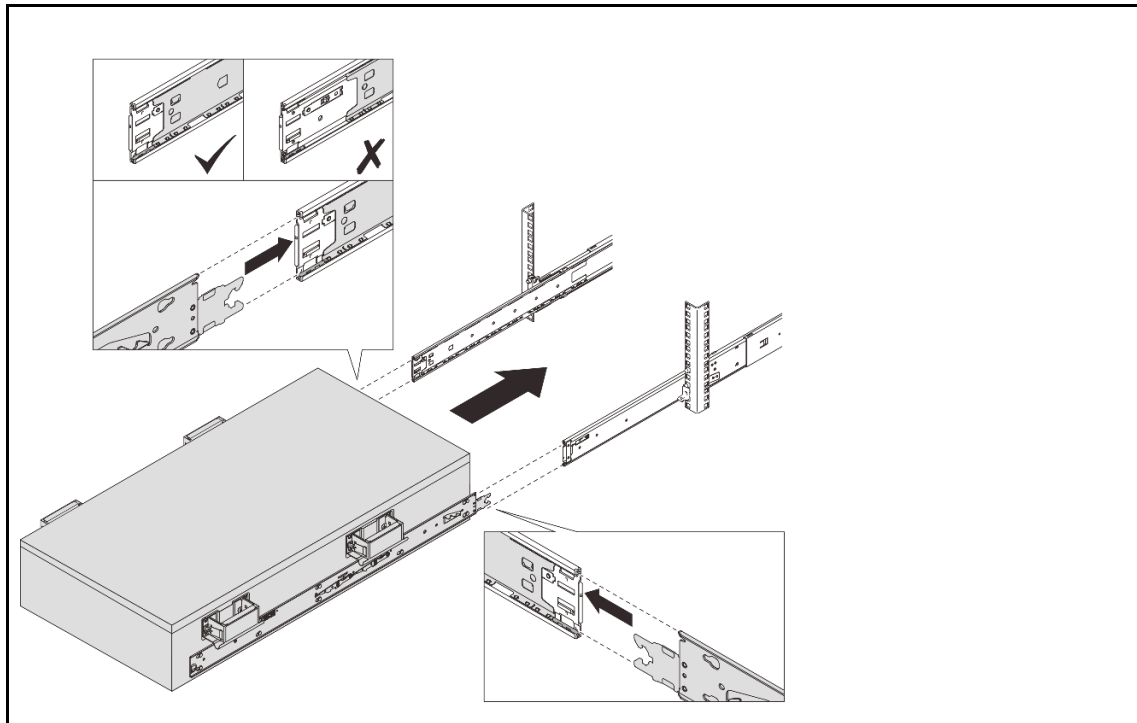


Step 7. Install the server to the rack.

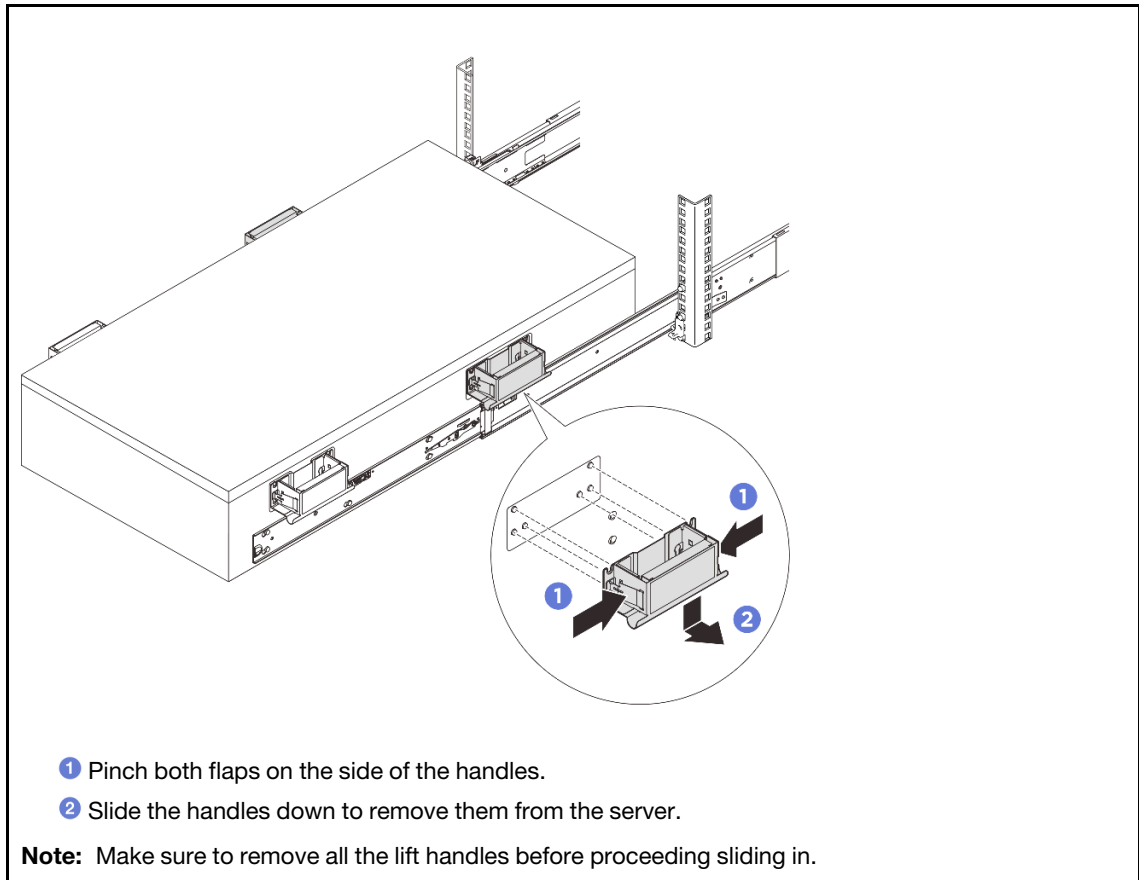


- a. Align both rear ends of the inner rails with the openings in the intermediate rails, and make sure the two pairs of rails mate correctly. Then, carefully slide the server into the rack until the rails stop.

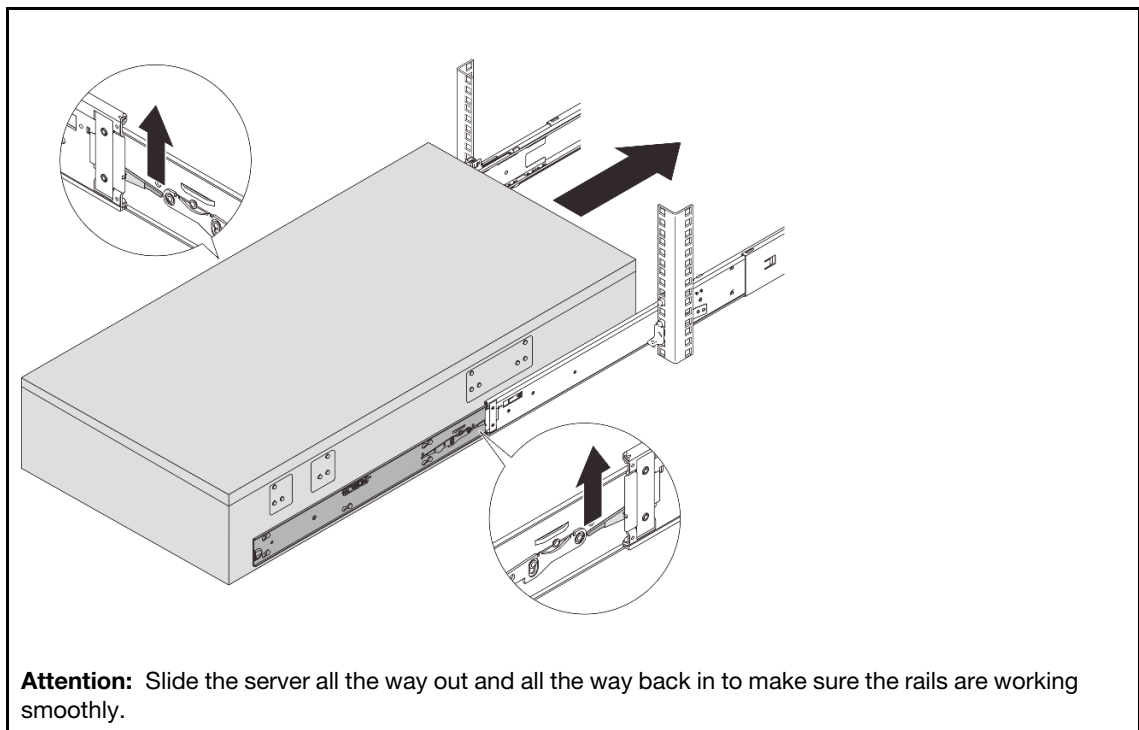
**Attention:** Before inserting the inner rails into the intermediate rails, make sure that the ball retainers on both sides of the intermediate rails reach the outmost position.



- b. Remove the front and rear lift handles at both sides if installed.



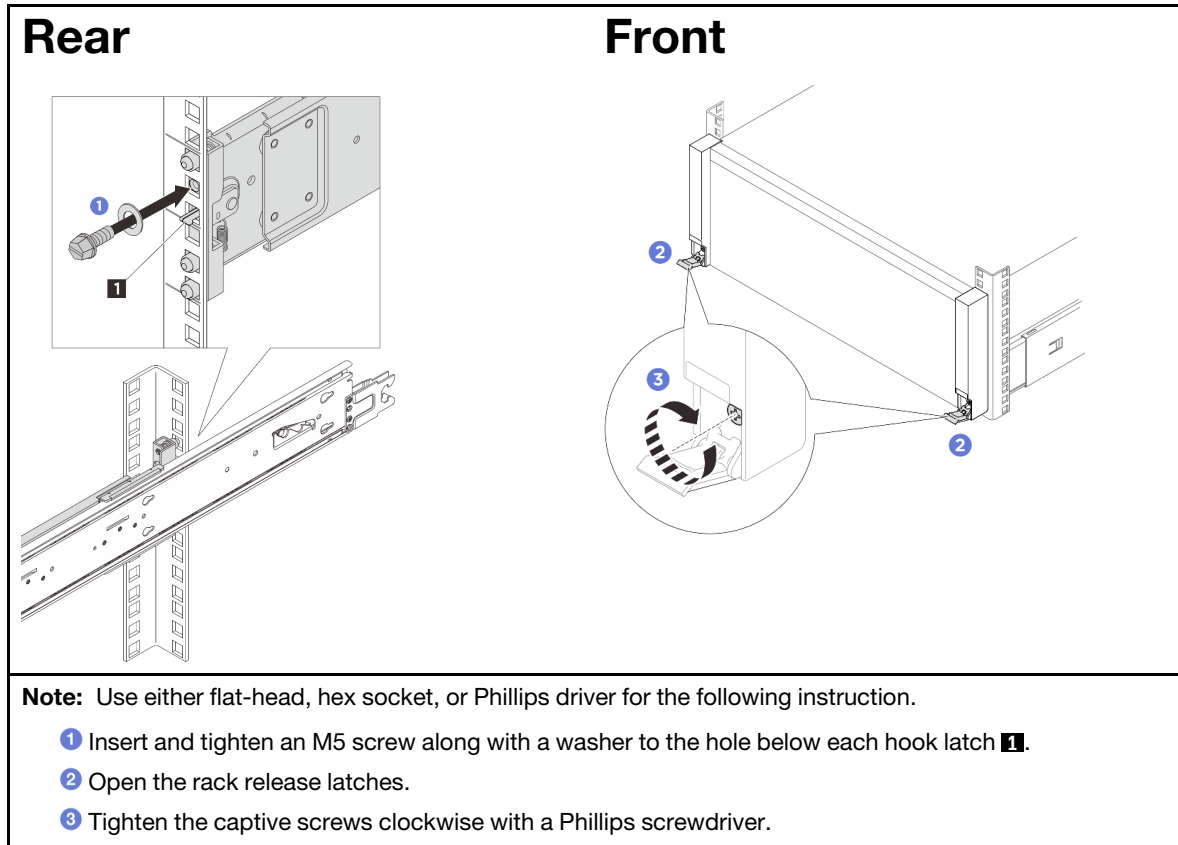
- c. Lift the lock latches as shown to slide the server into the rack until it goes into place.



Step 8. If you have removed any components, reinstall them back into the server.

## (Optional) Secure the server to the rack

Step 1. Secure the server to the rack.



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