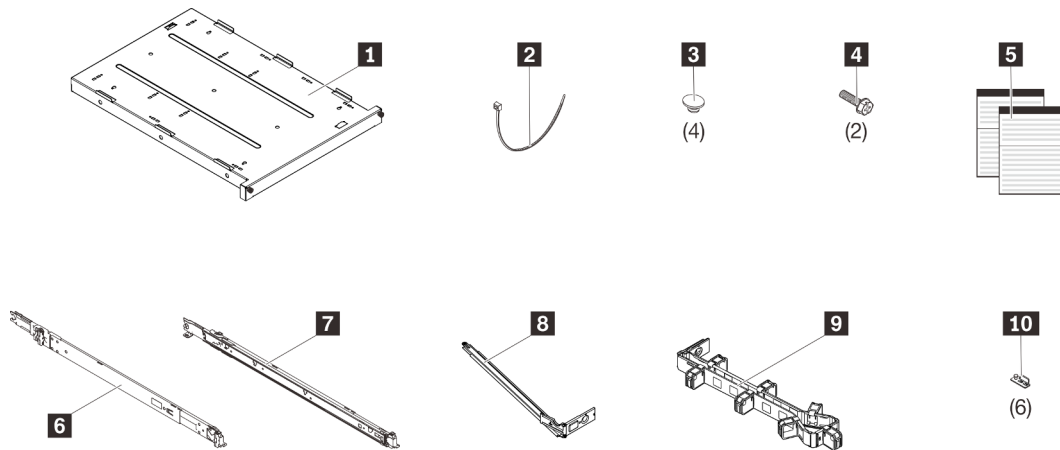


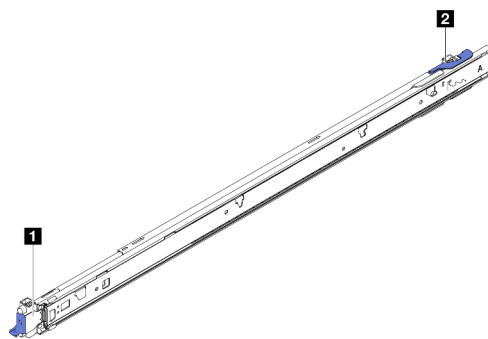
Rail Installation Guide

ThinkSystem Tower-to-rack Conversion Kit



This conversion kit comes with the following parts:

| | |
|----------------------------------|-----------------------------------------|
| 1 One server rack tray | 6 One right slide rail |
| 2 One cable tie | 7 One left slide rail |
| 3 Four rubber safety pads | 8 One CMA support bar |
| 4 Two M6 x 16 screws | 9 One cable management arm (CMA) |
| 5 This publication | 10 Six server brackets |



1 Front end of the slide rail

2 Rear end of the slide rail

The rails are marked L (left) or R (right), which refers to the direction from the front of the rack cabinet.

Read these guidelines first

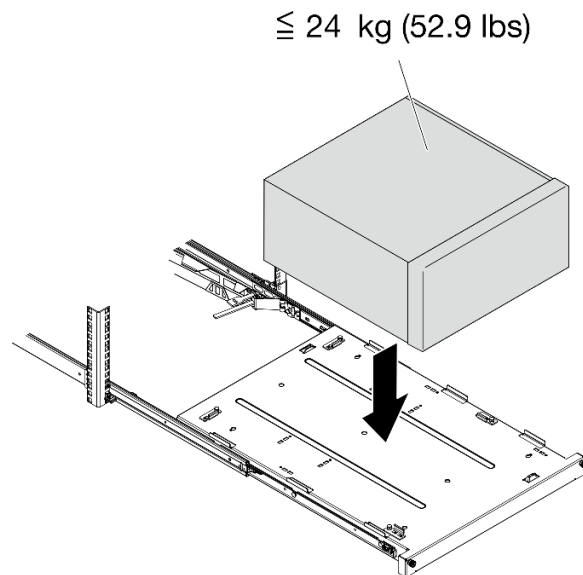


Attention:

1. The maximum allowable weight on this slide rail is 24kg (52.9 lbs).
2. The server is a 4U rack mount server, however the rack mount kit adds 1U to the vertical space occupied by the server. The total rack space occupied is 5U.

Note: Your system might look slightly different from the one shown in the illustration.

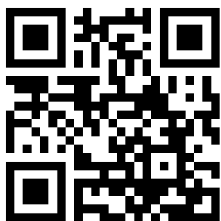
3. Before installing a server into the rack cabinet, disconnect all power cords from electrical outlets and disconnect all cables that are connected to the server.
4. Connect all power cords to proper electrical outlets, and refer to the documentation that comes with the rack cabinet for cabling information to properly manage all the cables in the rack cabinet.



Server installation and removal

For instructions on server installation and removal, refer to the documentation of your system at Lenovo Docs (link and QR code below).

<https://pubs.lenovo.com>



Install the tower-to-rack conversion kit

Follow instructions in this section to install the tower-to-rack conversion kit. (To remove the tower-to-rack conversion kit, see “Remove the tower-to-rack conversion kit” on page 11.)

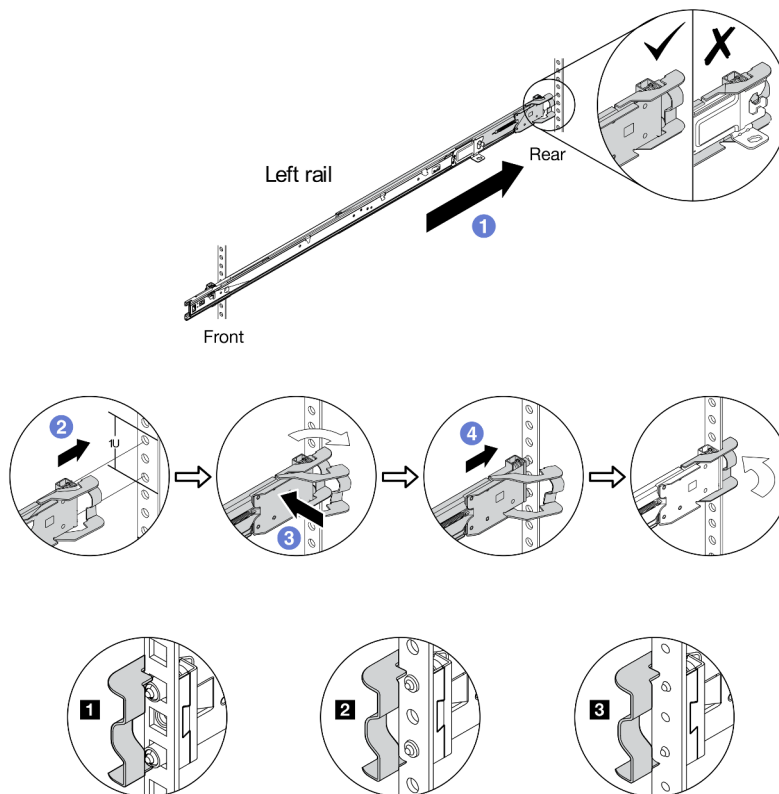
Notes:

- Your system might look slightly different from those shown in the illustrations.
- There are two rails, left rail (marked with L) and right rail (marked with R). The following steps use the left rail for illustrations. The installation procedure is similar for the right rail.

Step 1. Install the **rear** mounting bracket of the left rail from the front of the rack.

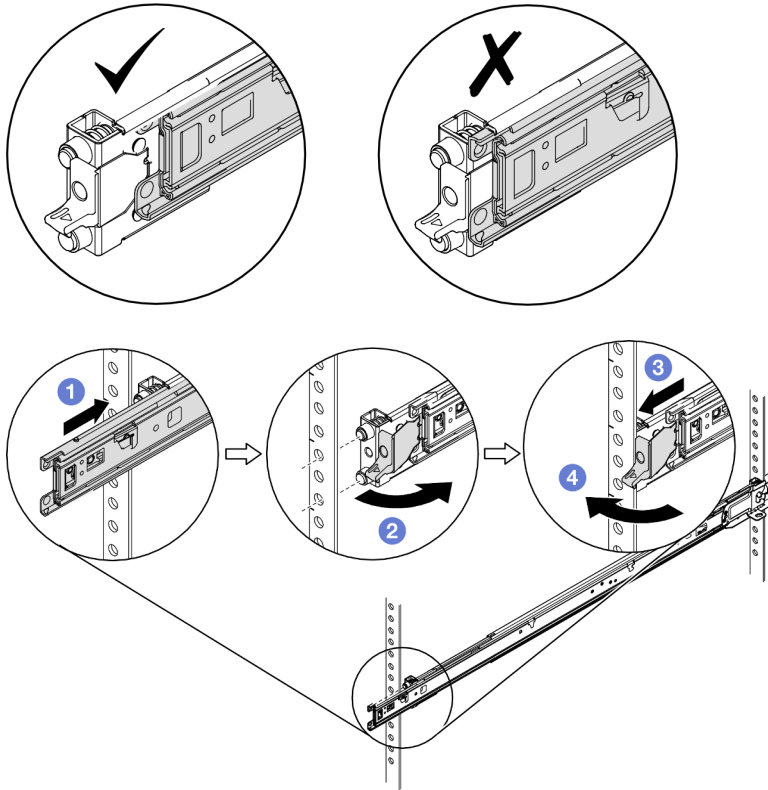
Attention: You must install the rear mounting brackets of the rails before installing the front mounting brackets. There are two rails, left rail (marked with L) and right rail (marked with R). You can install the rails into racks with **1** square holes, **2** round holes, or **3** threaded holes. Follow the steps to install each rail onto the flanges.

- 1** Fully slide the outer rail toward the rear of the rack.
- 2** Line up the pins on the rear of the rail with the corresponding holes in the rear mounting flange of the rack.
- 3** Attach the rear mounting bracket to the frame by pushing the rail toward the outside of the rack as shown until the rear latch opens.
- 4** Push the rail backward until the pins are inserted into the corresponding holes and the rear latch rotates back to the closed position.



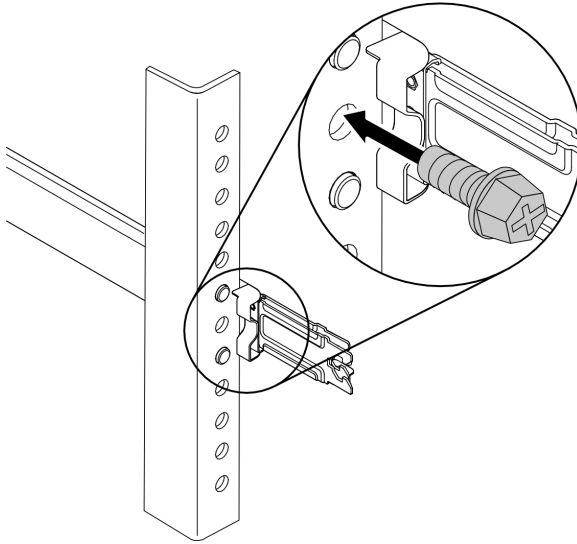
Step 2. Install the **front** mounting bracket of the left rail.

- a. ❶ Slide the inner rails all the way back so that the front latch can be opened
- b. ❷ Rotate the front latch and line up the pins on the front of the rail with the corresponding holes in the front mounting flange of the rack.
- c. ❸ Pull the entire rail forward until the pins protrude through the holes.
- d. ❹ Release the front latch to lock the rail into position.

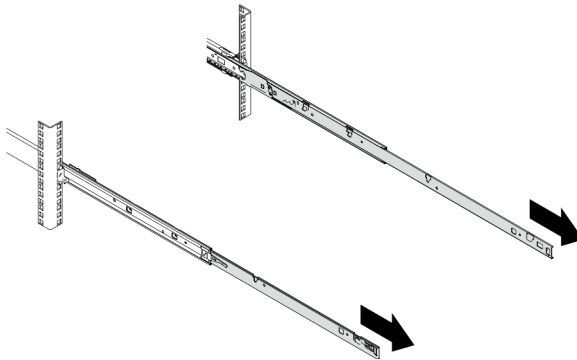


Step 3. Repeat **Step 1 to Step 2** to install the right rail to the opposite side of the rack.

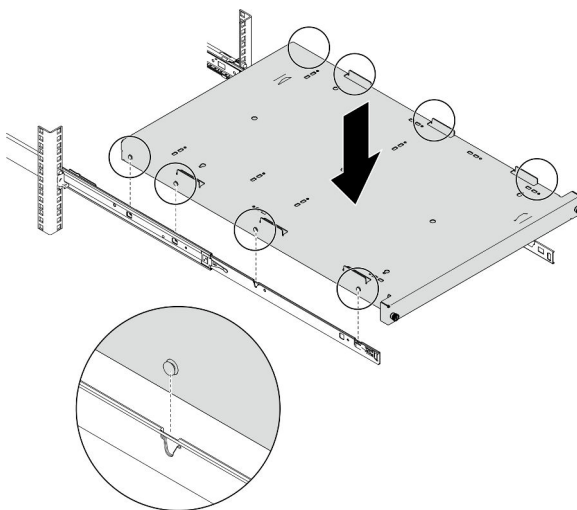
Step 4. If you want to ship the rack with the server installed or place the rack in a vibration-prone area, install the M6 screws into the **rear** of the rails.



Step 5. Extend both inner rails until they click into place.



Step 6. Align the nubs on the server rack tray with the holes on the rails as illustrated, and lower the tray until it sits firmly between the two rails and the front nubs click in place.

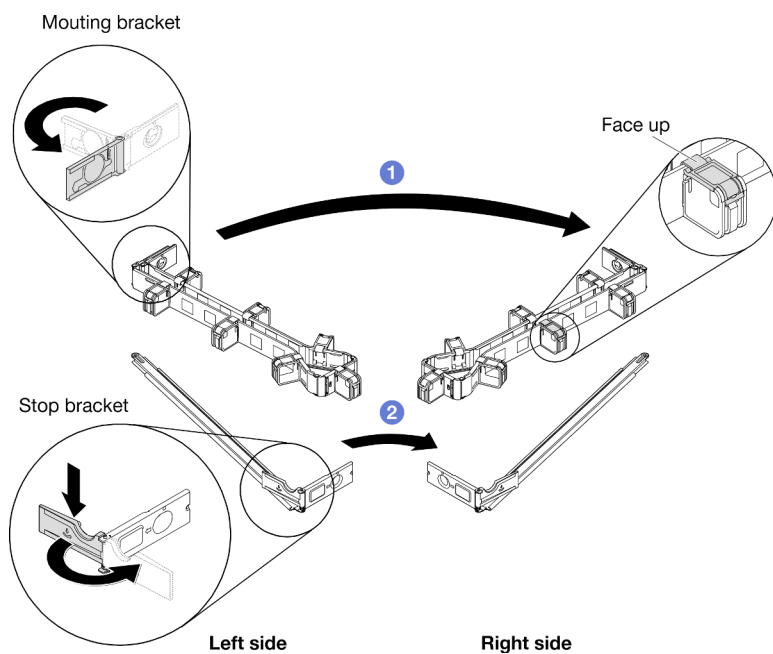


Step 7. Install the CMA onto the rails.

Choose the mounting side for the CMA. It is recommended that you connect the CMA mounting brackets on the side opposite the power supplies (the left side of the rack when viewed from the rear of the rack). In this way, you can access the rear cables and power supplies more easily. If you decide to mount the CMA on the left side, go to **step 8** directly. If you still decide to mount the CMA on the right side (the power supply side), do the following:

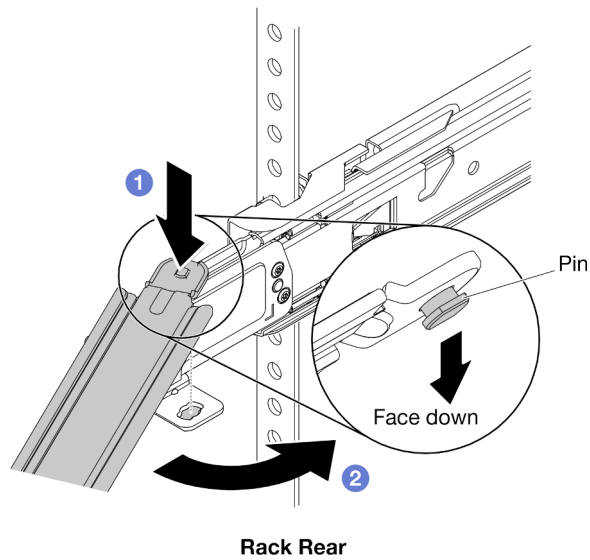
- a. ① Rotate the CMA mounting brackets by 180 degrees as shown.
- b. ② Press down the stop bracket of the support bar and rotate it to the opposite side.

Ensure that you orient both the CMA and support bar correctly and the cable brackets on the CMA are facing upward as shown.

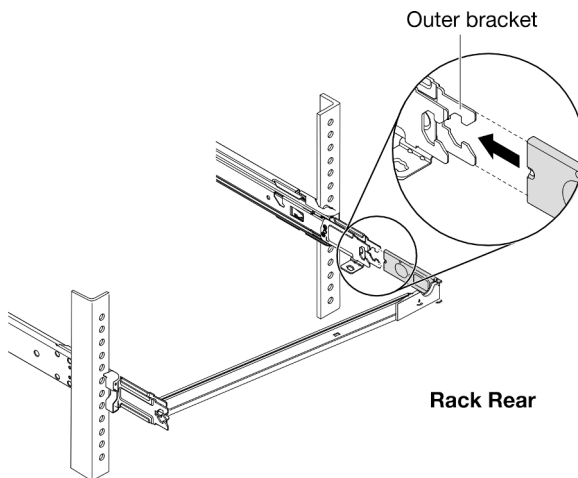


Step 8. Install the CMA support bar onto the rail.

- a. ① Place the pin on the CMA support bar down into the slot in the rear end of the rail.
- b. ② Rotate the other end of the support bar toward the rail on the opposite side.

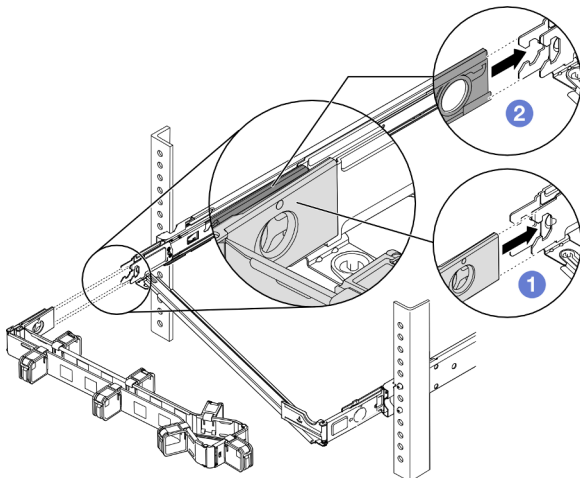


Step 9. Connect the mounting bracket on the support bar to the outer mounting bracket on the rear of the rail.



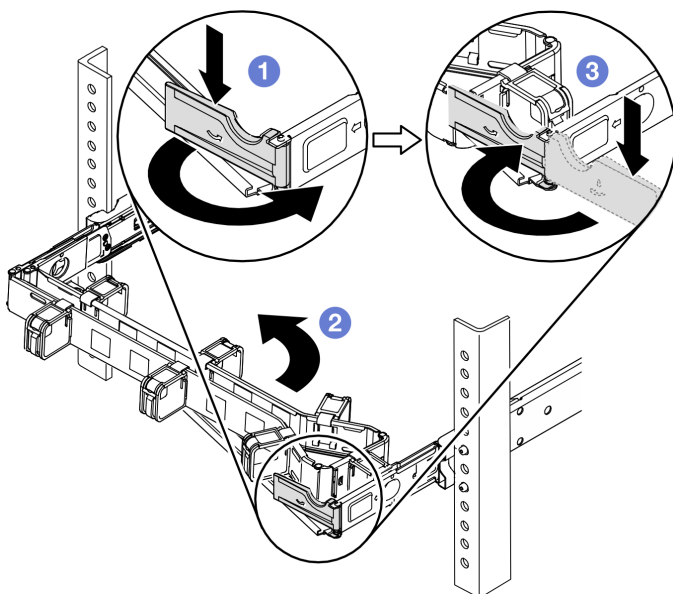
Step 10. Connect the CMA mounting brackets to the rail.

- a. ① Connect the inner mounting bracket on the CMA to the inner mounting bracket on the rear of the rail.
- b. ② Connect the outer mounting bracket on the CMA to the outer mounting bracket on the rear of the rail.

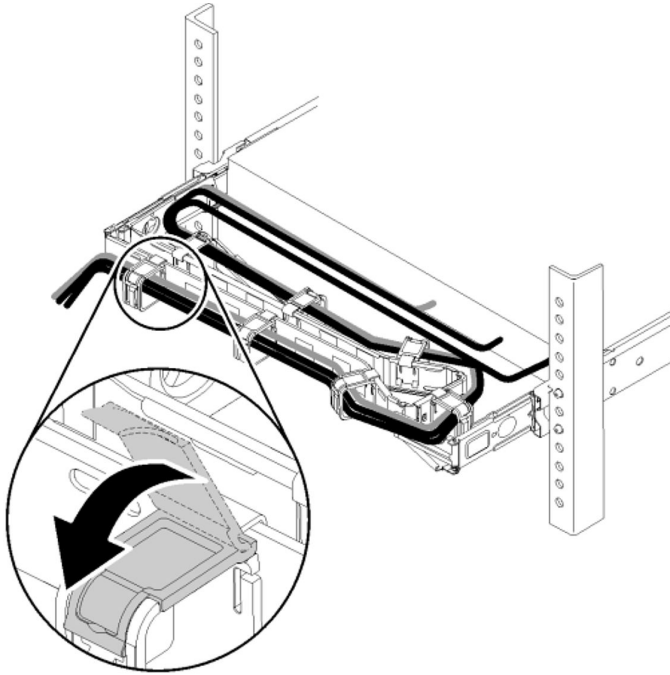


Step 11. Place the CMA onto the support bar and close the stop bracket.

- a. ① Press down the stop bracket on the support bar and rotate it to the open position.
- b. ② Place the CMA onto the support bar and then ③ rotate the stop bracket back into the closed position. To rotate the CMA on or off the support bar, you can press down the stop bracket and rotate it to the open or closed position.



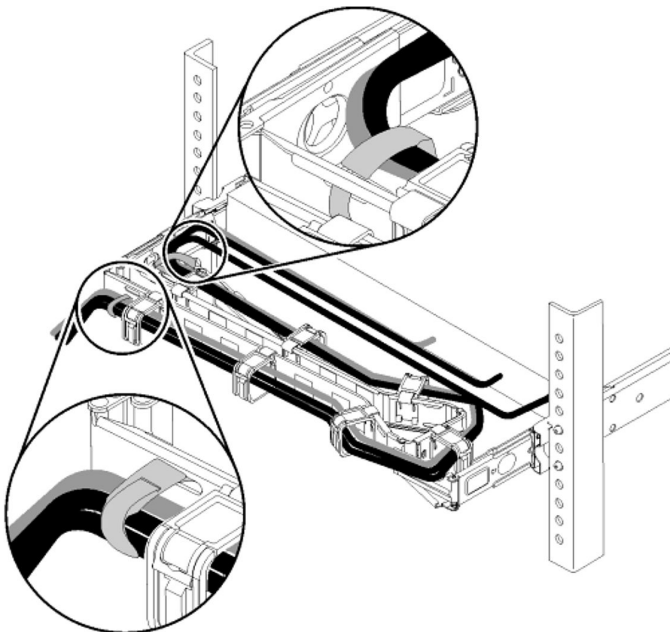
Step 12. Attach the power cords and other cables to the rear of the server. Open the cable brackets on the CMA, route the cables, and then close the cable brackets.



Step 13. Use the cable straps provided to secure the cables. Cables must be bundled with cable straps for proper movement.

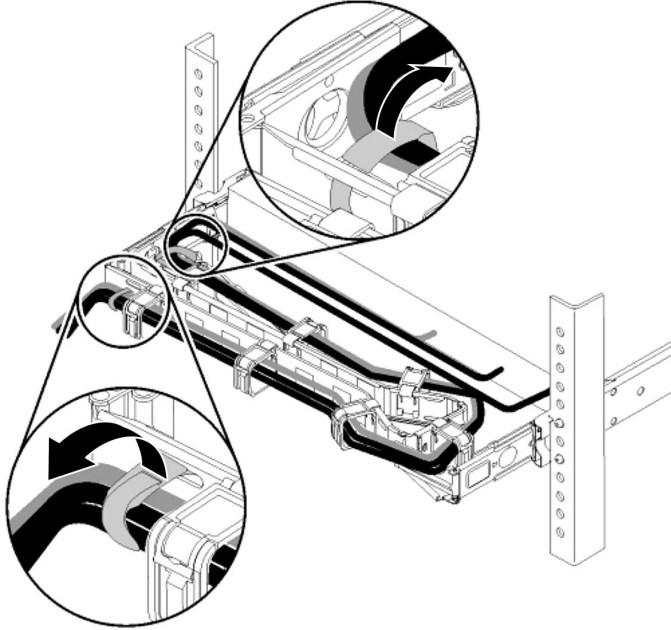
Notes:

- For different servers, you might put the cable straps in different places to properly strap the cables.
- Ensure that the cables do not sag below the U space so they will not get caught on the lower servers.

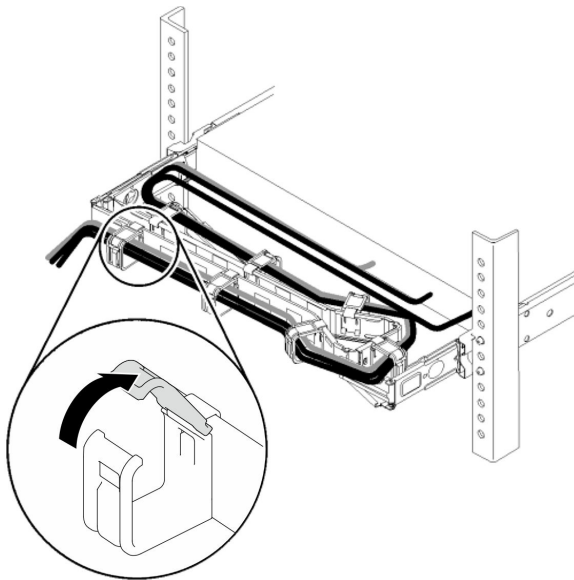


Remove the tower-to-rack conversion kit

Step 1. Detach the cable straps from the cables.

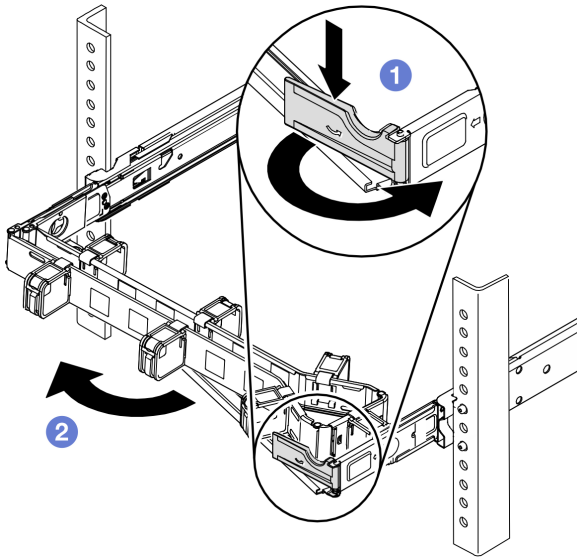


Step 2. Open the cable brackets on the CMA. Then, disconnect the cables from the server and remove them from the CMA.



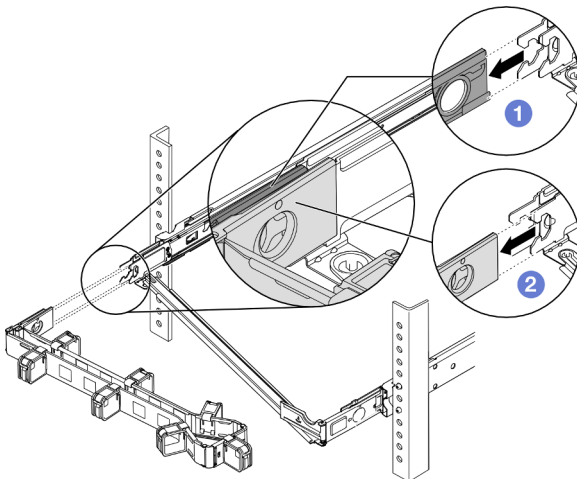
Step 3. Release the CMA from the stop bracket.

- a. ① Press down the stop bracket on the support bar and rotate it to the open position.
- b. ② Rotate the CMA away from the rack.

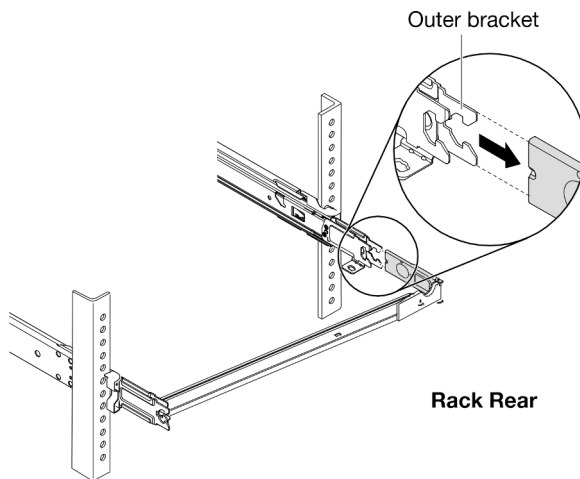


Step 4. Disconnect the CMA mounting brackets from the rail.

- a. ① Disconnect the outer mounting bracket on the CMA from the inner mounting bracket on the rear of the rail.
- b. ② Disconnect the inner mounting bracket on the CMA from the outer mounting bracket on the rear of the rail.

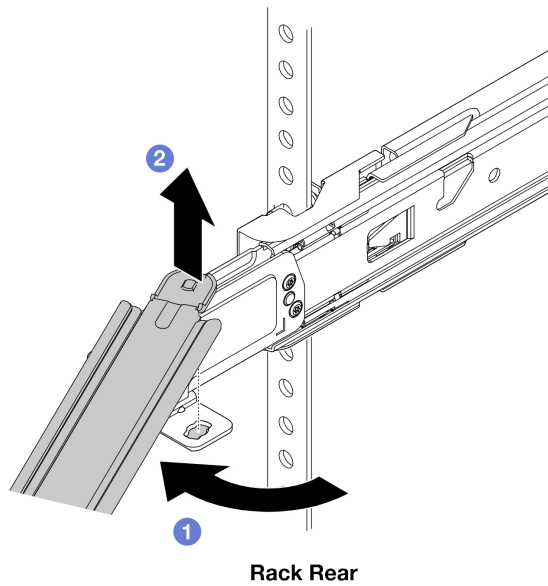


Step 5. Disconnect the mounting bracket on the support bar from the outer mounting bracket on the rear of the rail.

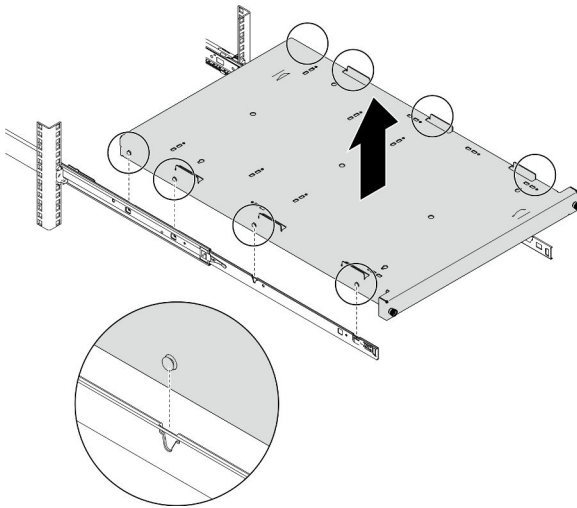


Step 6. Remove the support bar from the rail.

- 1 On the opposite side, rotate the support bar away from the rail.
- 2 Lift the support bar to remove it from the rail.

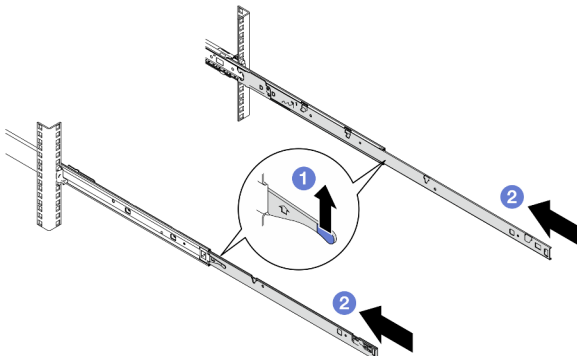


Step 7. Remove the server rack tray from the rails.

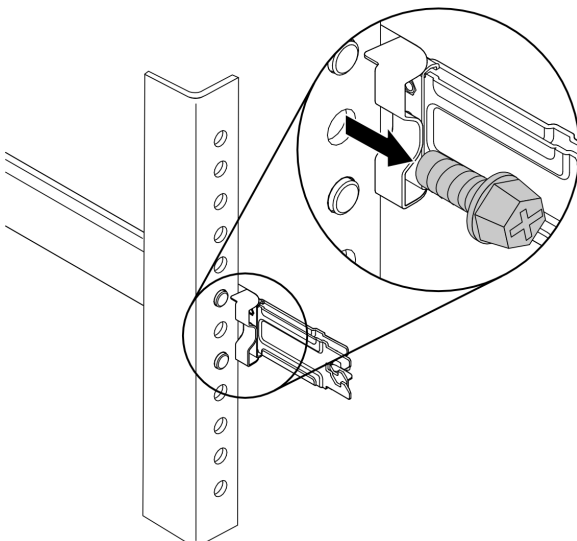


Step 8. Slide the rails into the rack.

- a. 1 Lift the rail latches on both sides.
- b. 1 Gently slide and push the inner rails into the rack.

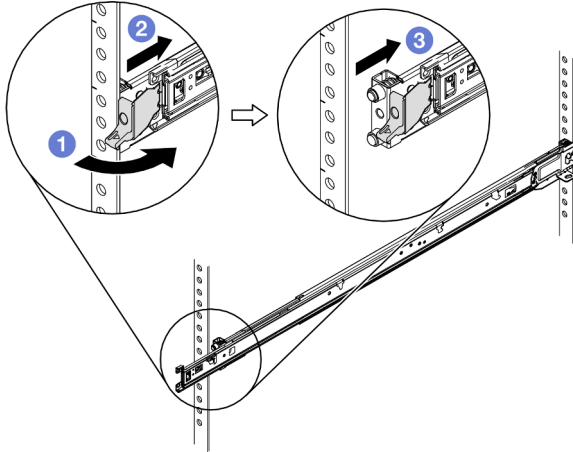


Step 9. If M6 screws are installed into the **rear** of the rails, remove them.



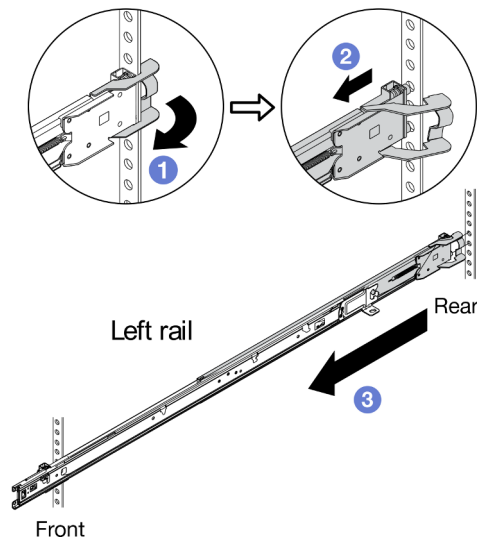
Step 10. Remove the **front** mounting bracket from the left rail.

- a. ① Rotate the front latch from the rack.
- b. ② Push the entire rail backward away from the rack.
- c. ③ Slide the rail away from the rack.



Step 11. Remove the **rear** mounting bracket of the left rail from the front of the rack.

- a. ① Rotate the mounting bracket away from the rack.
- b. ② Remove the pins from the flange holes.
- c. ③ Slide the rail away from the rack.



Step 12. Repeat **Step 10 to Step 11** to remove the right rail from the rack.

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