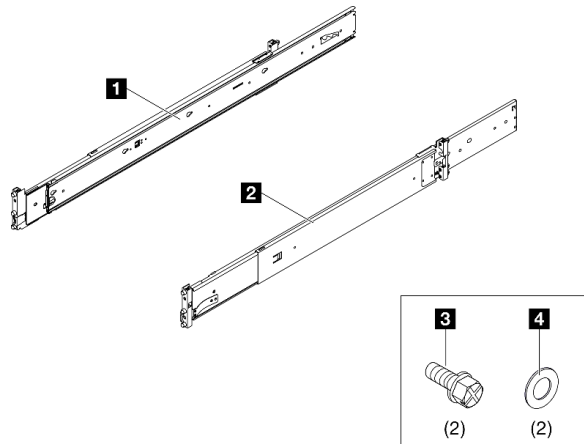


Rail Installation Guide

Rail kit parts inventory

The Toolless Rail Kit includes the following parts:



1 One left rail

2 One right rail

3 Two M5 screws

4 Two washers

Notes:

- This kit can be installed in both square hole and round hole rack.
- If any parts is missing, contact local service.

Read these guidelines first

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

- The maximum rail travel distance is 920 mm (36.22 inches).
- Install the server to a rack that meets the following requirements:
 - Minimum depth of 150 mm (5.91 inches) between the front mounting flanges and inside of the front door.
 - Minimum depth of 125 mm (4.92 inches) between the server rear wall and inside of the rear door.
 - The distance between the front and rear mounting flanges is 595 mm (24 inches) to 812.8 mm (32 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 1185 mm (46.65 inches) 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.

If you need to remove the rail from 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/>.



S036



18 - 32 kg (39 - 70 lb)



32 - 55 kg (70 - 121 lb)

CAUTION:
Use safe practices when lifting.

R006



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.

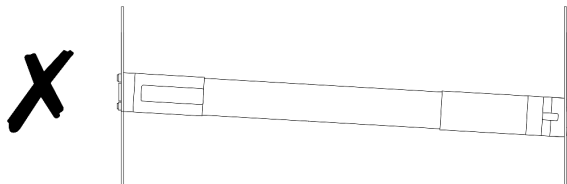
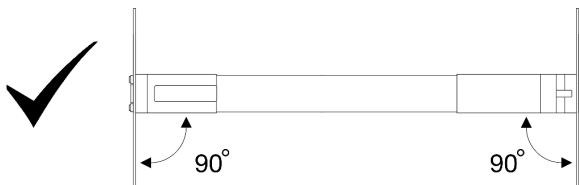
S037



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.

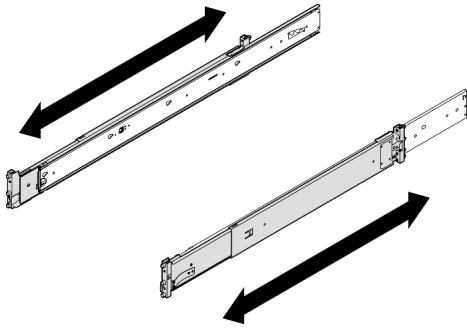
Install the rail kit to the rack

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



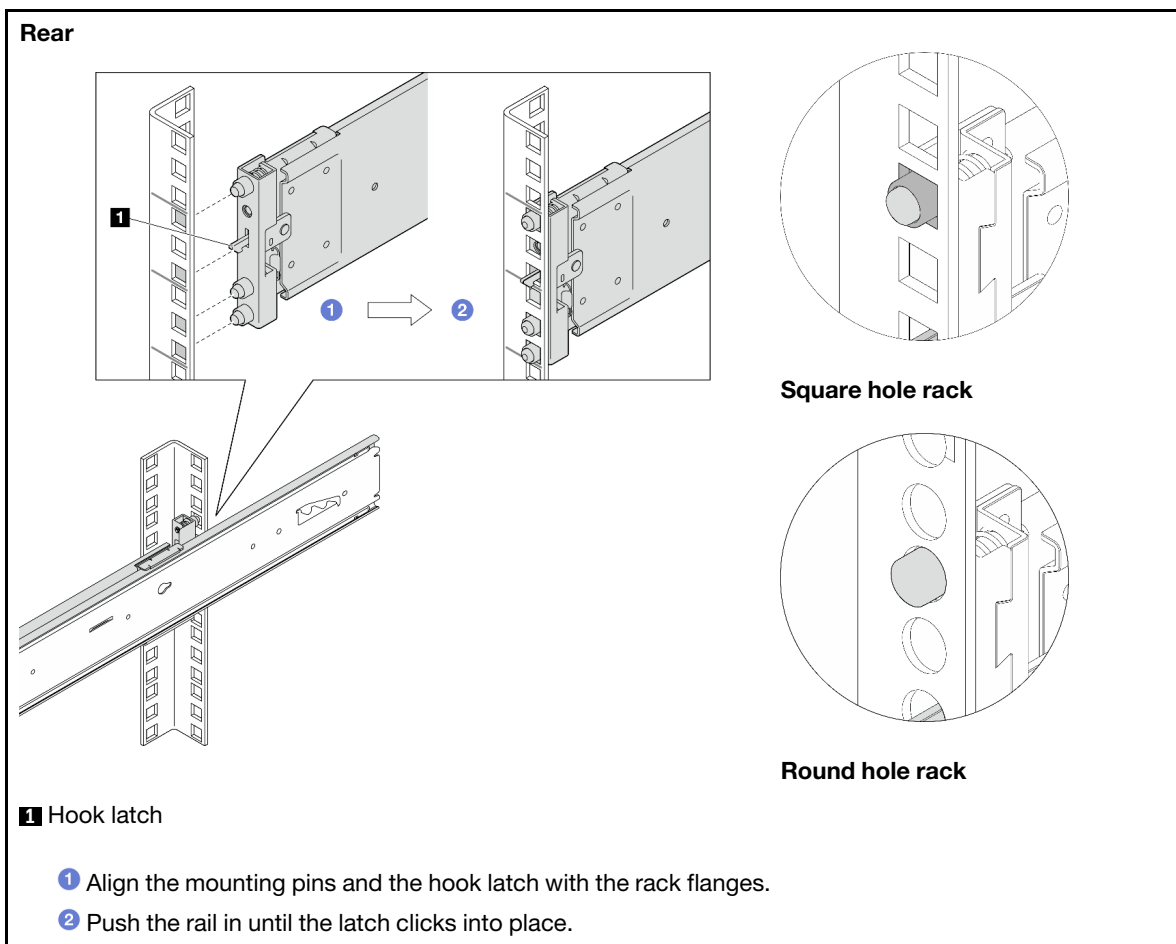
Notes:

- The rails are extensible as shown in the following illustration.

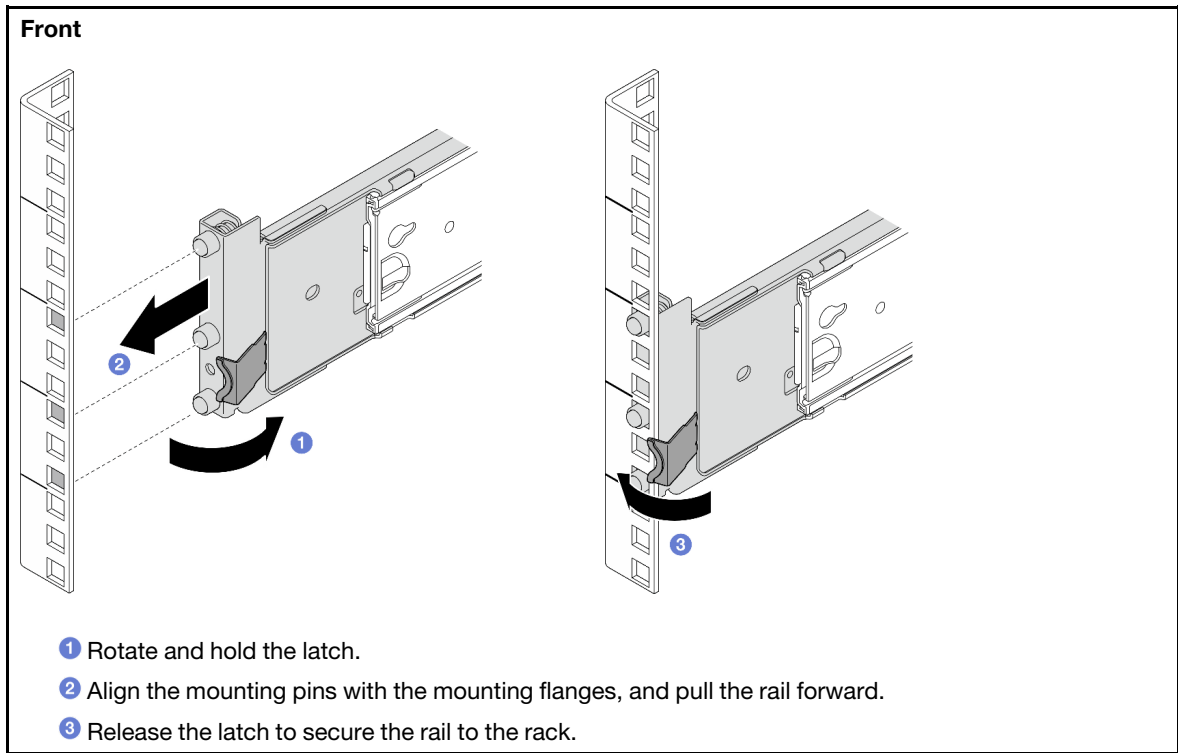


- Install the rail to the rack, starting from the rear and proceeding to the front.
- Make sure the rail is shortened to the shortest position.
- The rail mounting pins take up 2U space. Follow the U space marking on the rack when installing the rail kit.

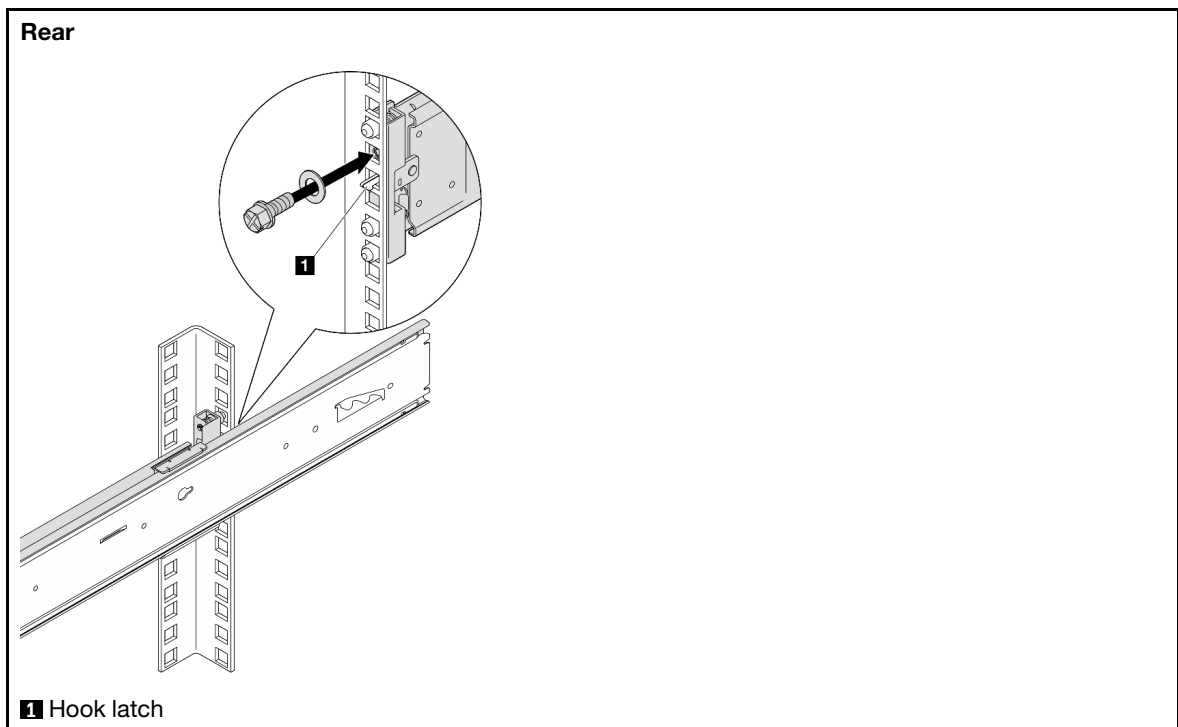
Step 1. Install the rear mounting pins to the rack.



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










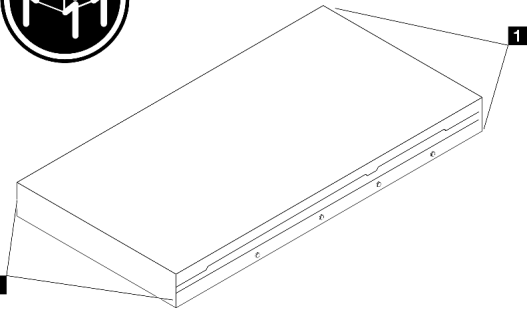
Step 3. If you want to ship the rack with the server installed or place the rack in a vibration-prone area, install an M5 screw along with a washer to the hole above the hook latch.



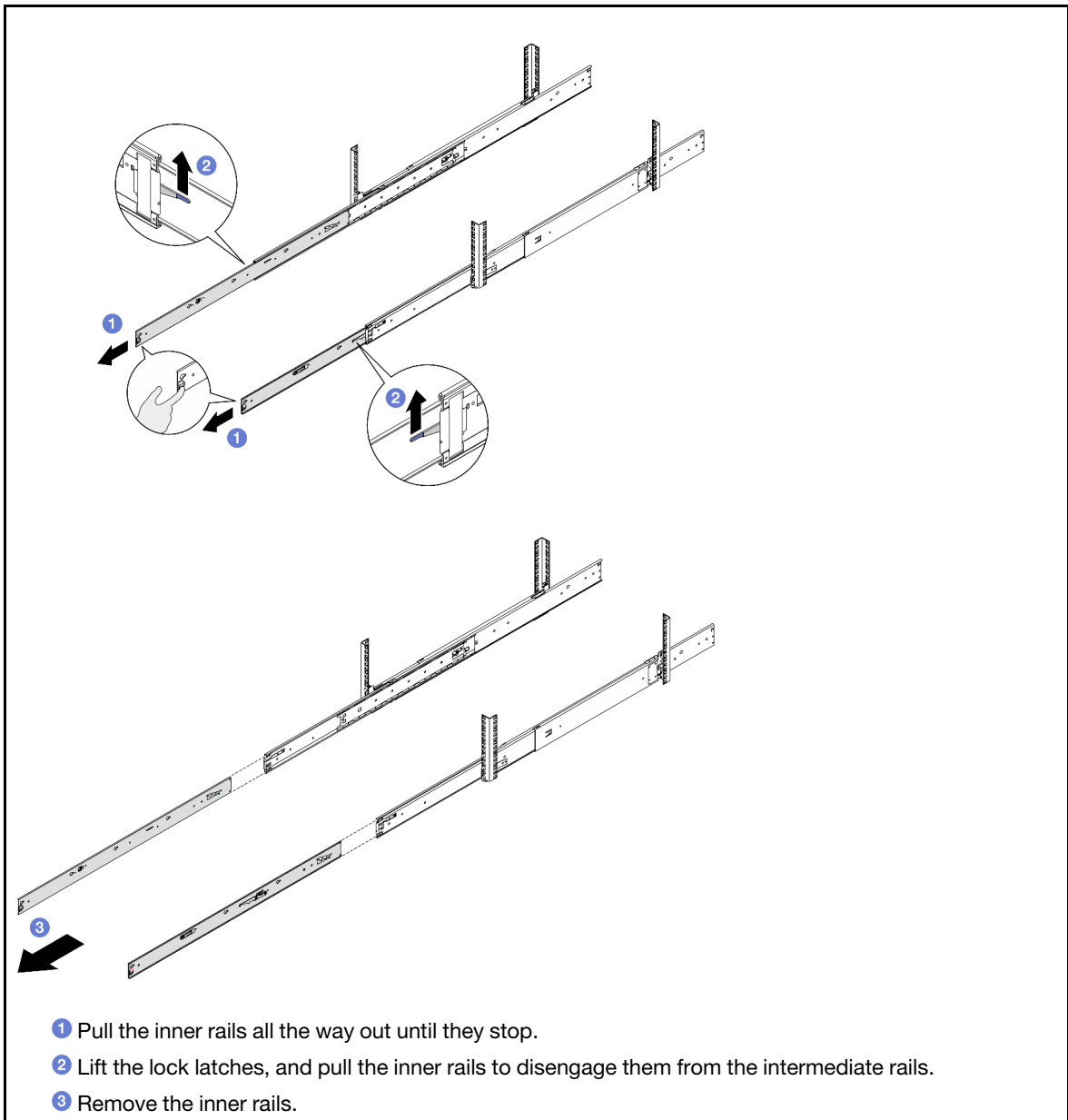
Step 4. Repeat the previous three steps on the other rail.

Install the server to rails

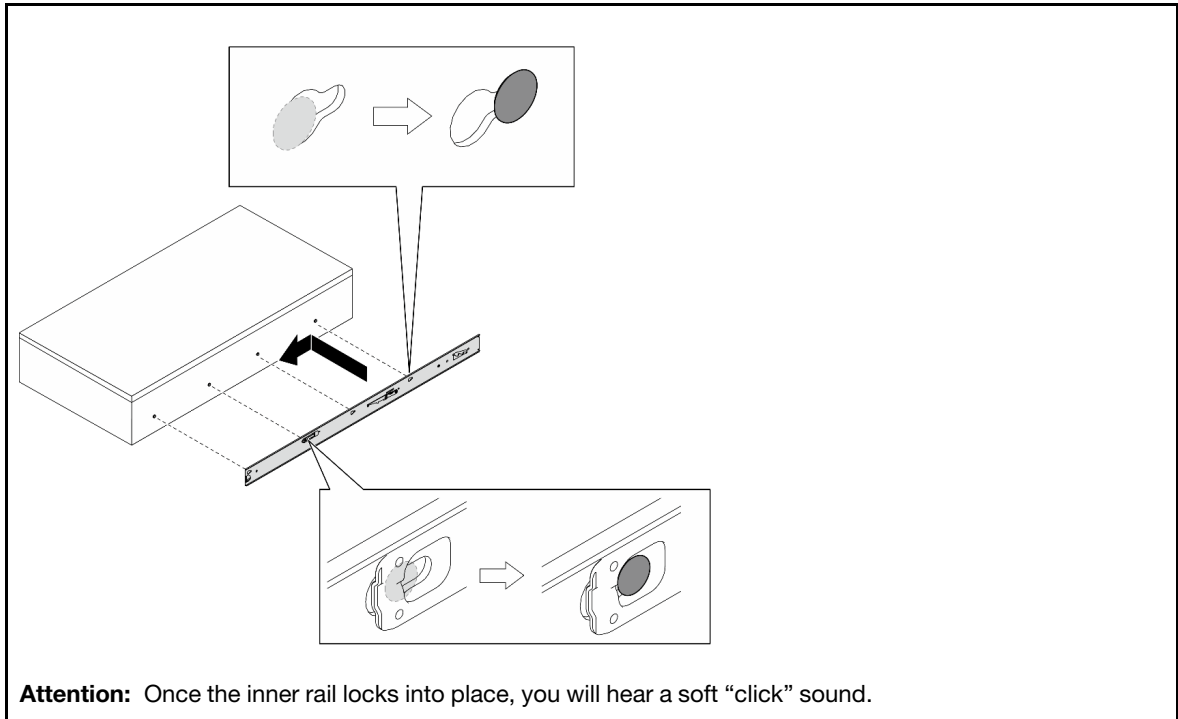
Step 1. Lift the server and place it on a flat and stable surface. Two lifting options are available:

  <p>18-32 kg 39-70 lb</p>	  <p>32-55 kg 70-121 lb</p>
<p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives• Top cover	  <p>55-100 kg 121-220 lb</p>
<p>Otherwise, lift the server with three people or a lifting device.</p>	
  <p>1 Lift point</p>	<p>CAUTION: Make sure to lift the server by holding the lift points.</p>

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

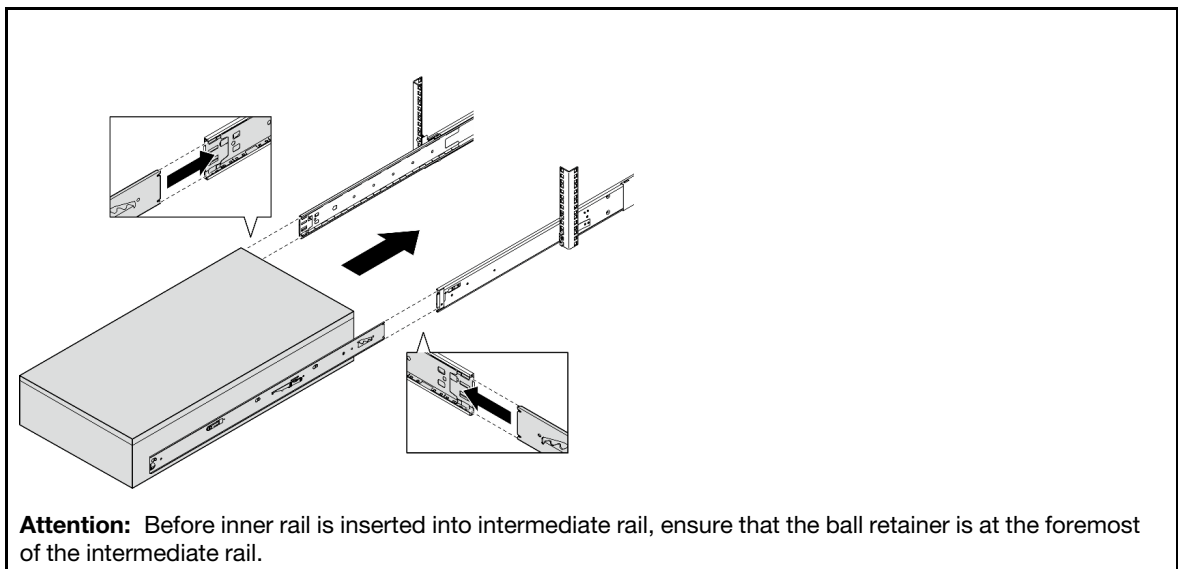


- Step 3. Align the slots on the inner rail with the corresponding T-pins on the side of the server; then, install and slide the inner rail towards the front of the server until the T-pins lock into place.

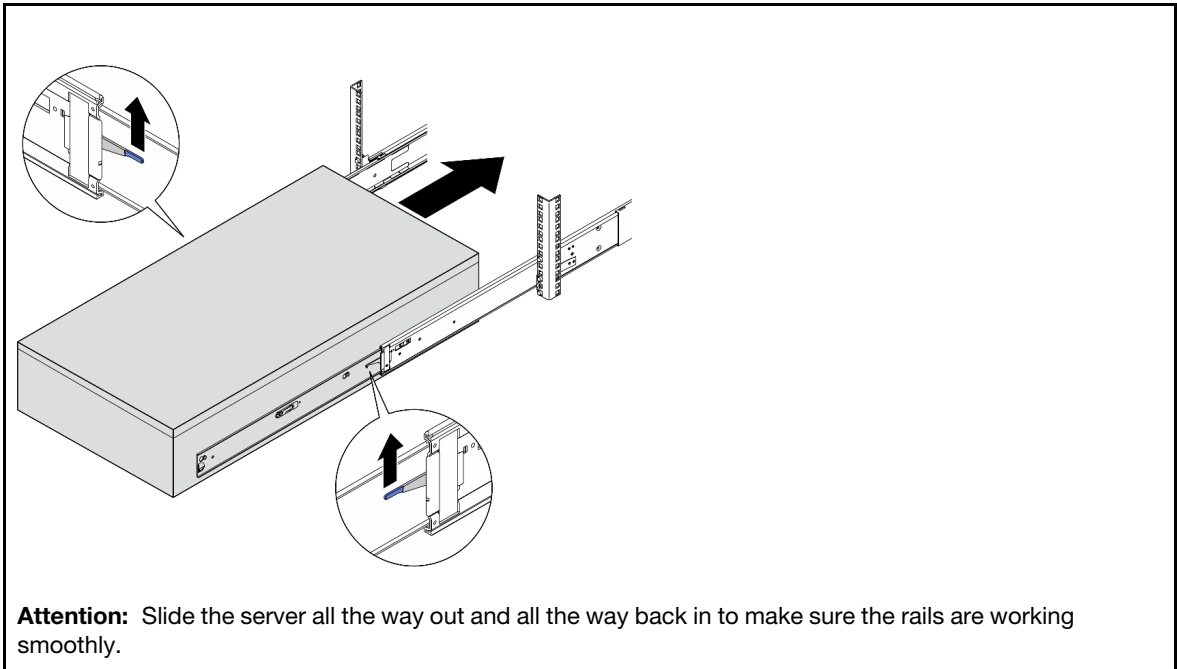


- Step 4. Repeat the previous step on the other rail.

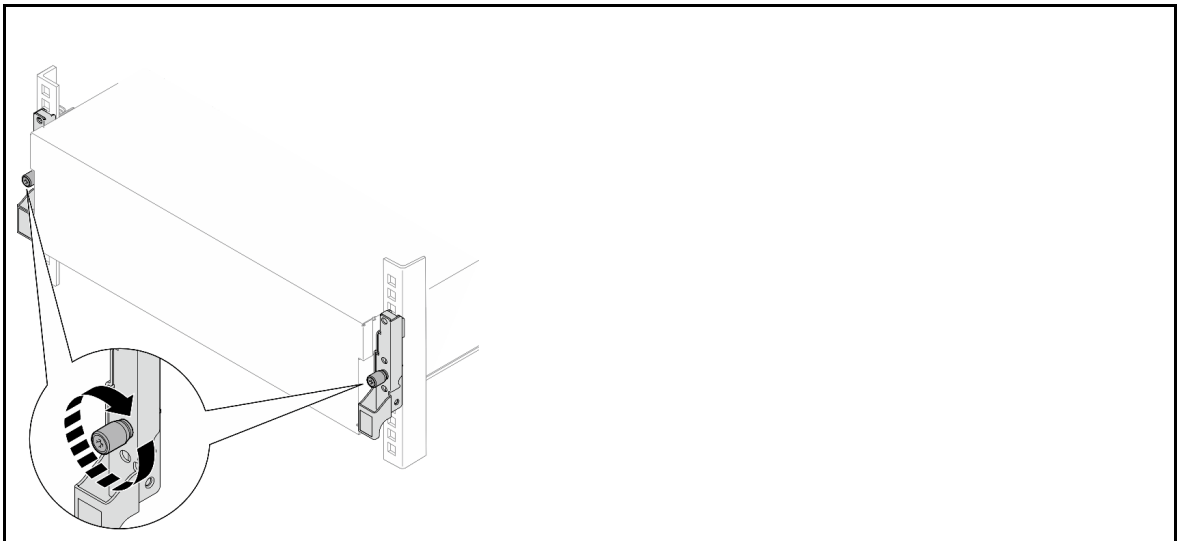
- Step 5. Align both rear ends of the inner rails with the openings in the intermediate rails, and make sure the two pairs of rails mate correctly. Then, carefully slide the server into the rack until the rails snap into place.



Step 6. Lift the lock latches to proceed to slide the server in.










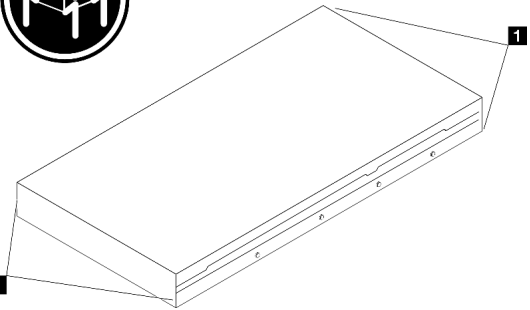
Step 7. Tighten the thumbscrews to secure the server to the rack.



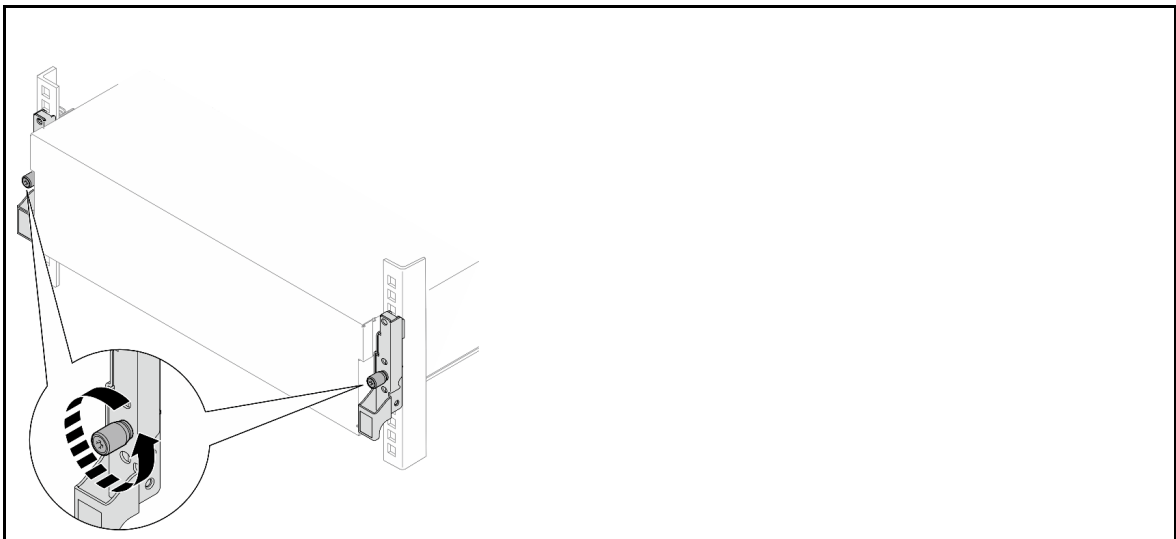
Step 8. Reinstall all the components that were removed previously.

Remove the server from rails

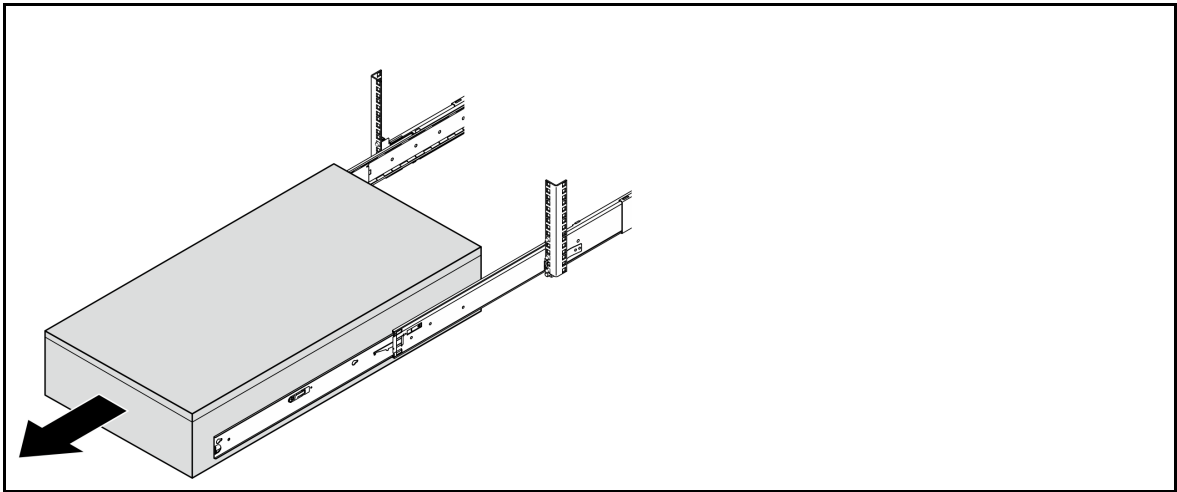
Step 1. Determine the lifting method. Two lifting options are available:

  <p>18-32 kg 39-70 lb</p>	  <p>32-55 kg 70-121 lb</p>
<p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives• Top cover	  <p>55-100 kg 121-220 lb</p> <p>Otherwise, lift the server with three people or a lifting device.</p>
  <p>1 Lift point</p>	<p>CAUTION: Make sure to lift the server by holding the lift points.</p>

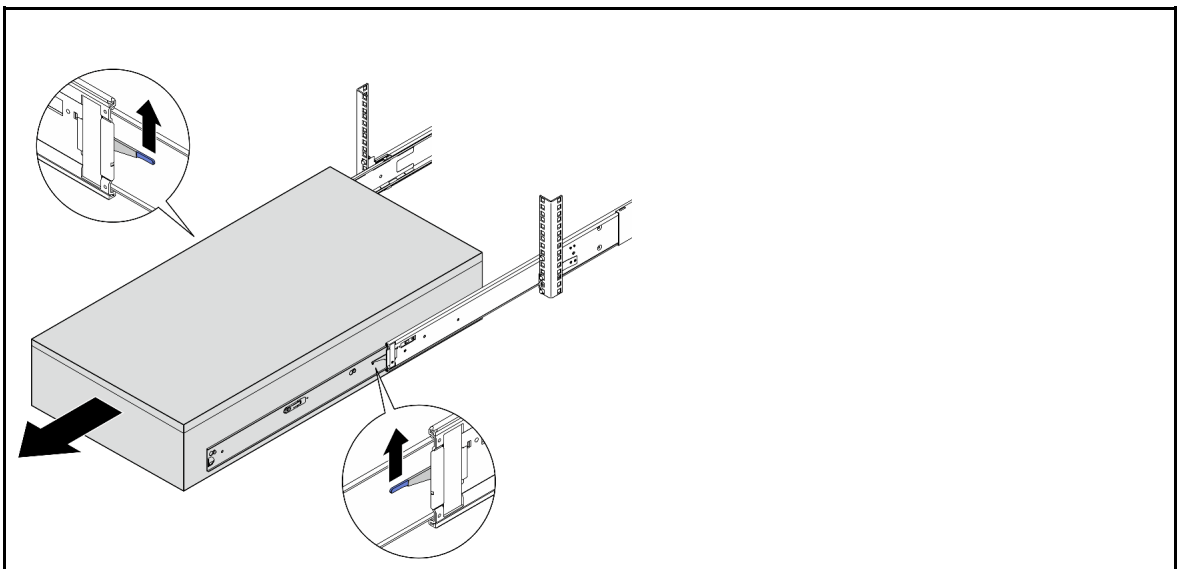
Step 2. Loosen the thumbscrews.



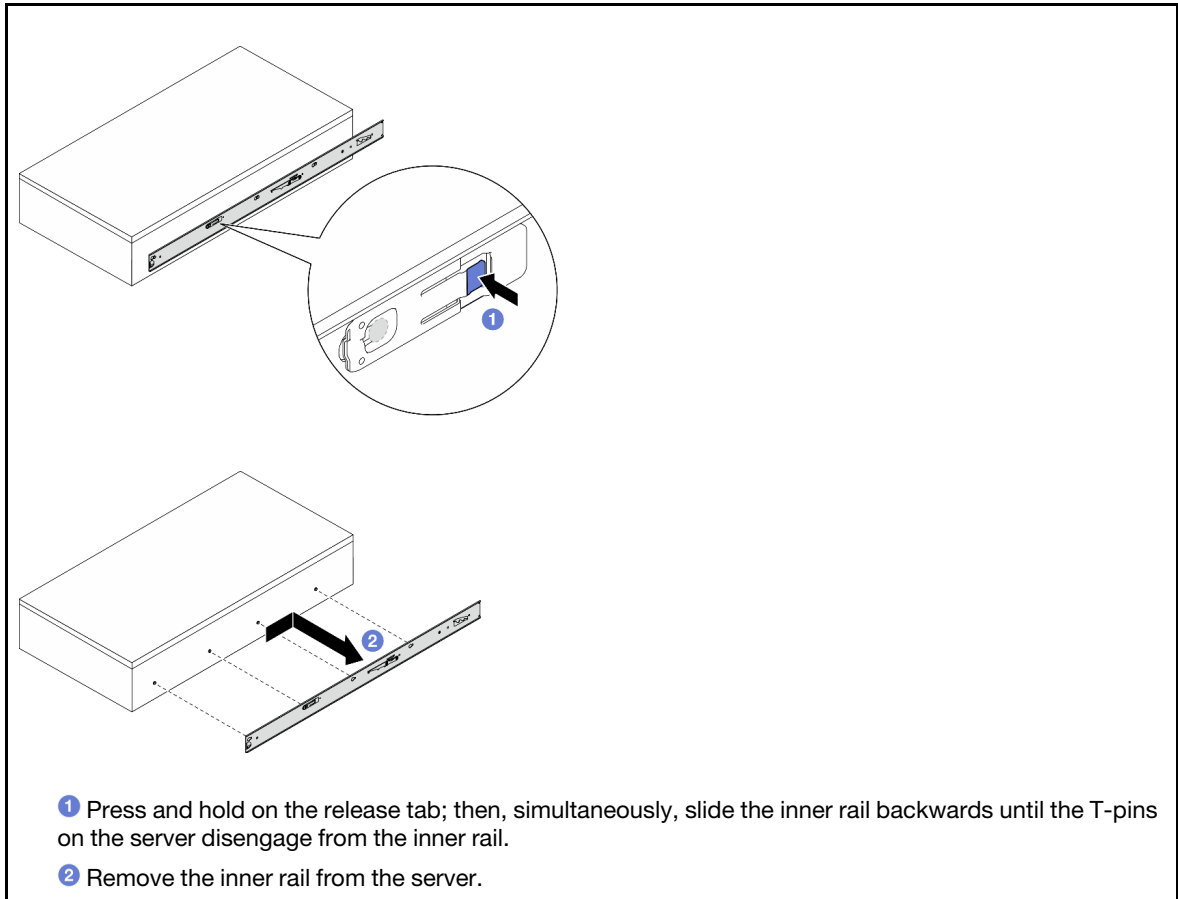
Step 3. Slide the server out until it stops.



Step 4. Lift the lock latches up and remove the server completely from the rack; then place it on a flat and stable surface.



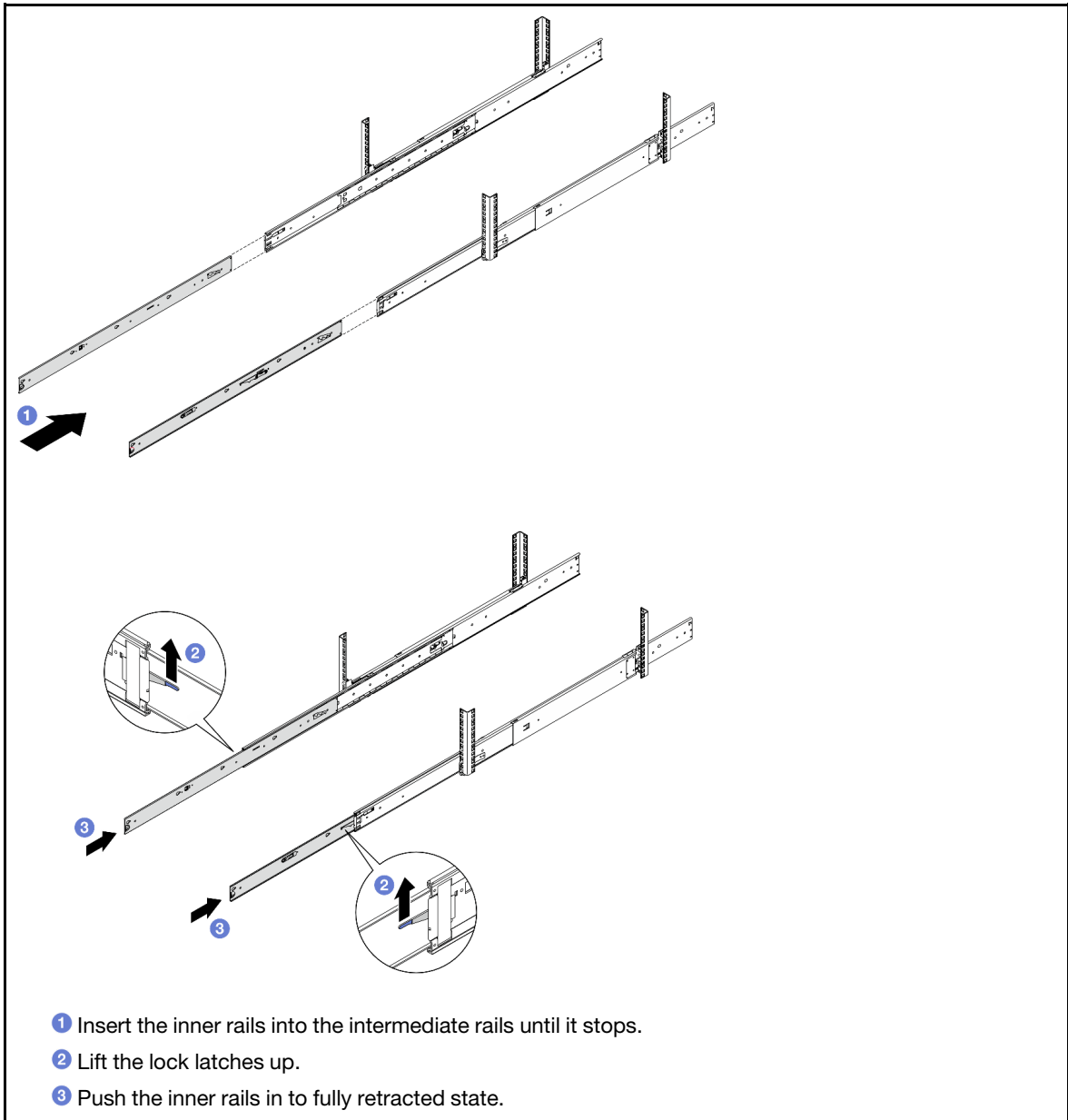
Step 5. Remove the inner rail from the server.



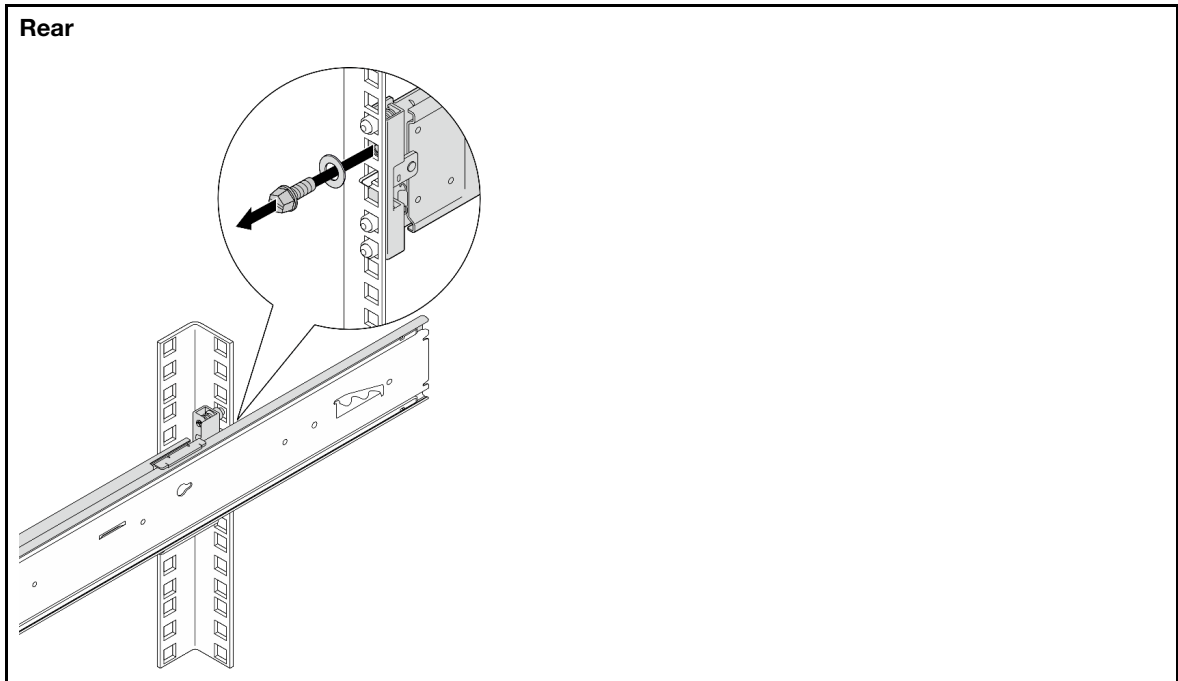
Step 6. Repeat the previous step on the other rail.

Remove the rails from the rack

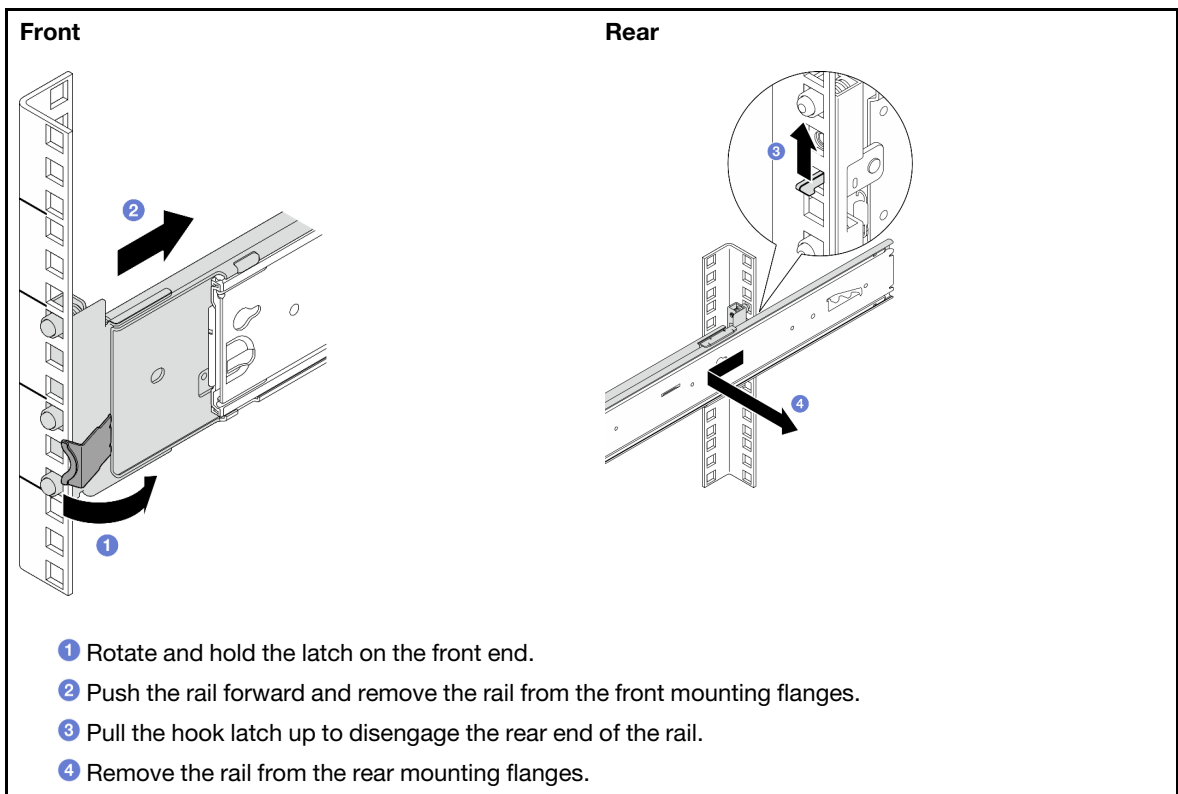
Step 1. Retract the rails into fully retracted state.



Step 2. If the server has been secured to the rack, use a flat-head, hex socket, or Phillips driver to remove the washer and the M5 screw on both sides.



Step 3. Remove the rails from the rack.



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