



## Rack installation instructions

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 the device 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.



Use safe practices when lifting.



≥18 kg (39.7 lb)



≥32 kg (70.5 lb)



≥55 kg (121.2 lb)

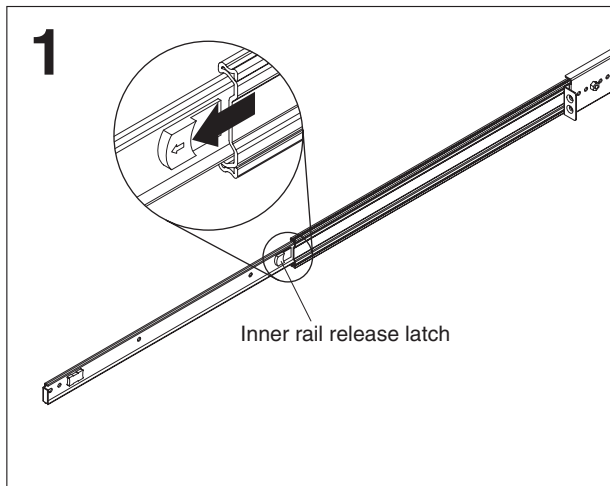
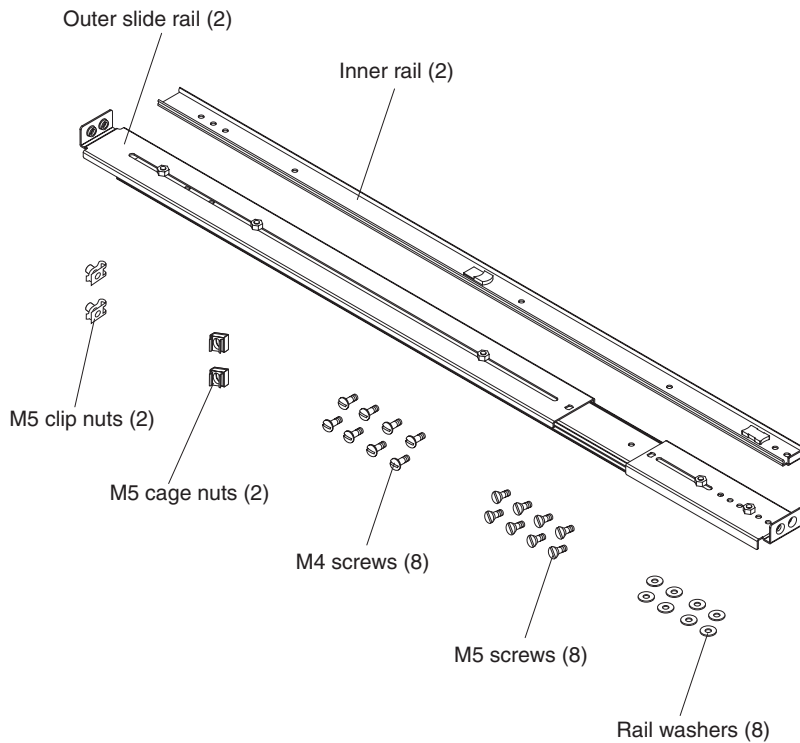


Do not place any object on top of rack-mounted devices.



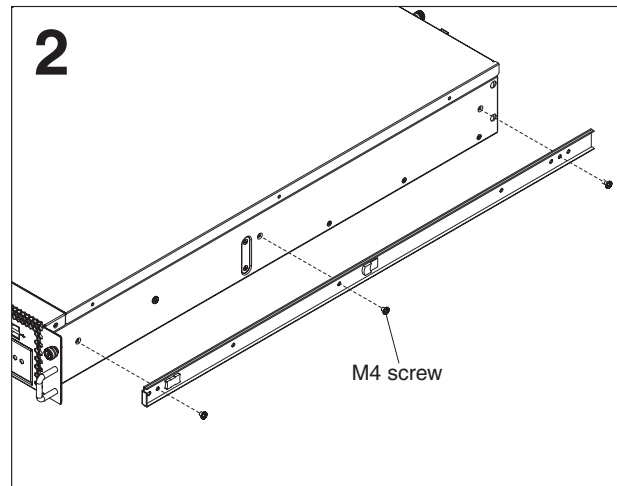
The following illustration shows the items that you need to install the server in the rack cabinet. If any items are missing or damaged, contact your place of purchase.

**Note:** Some items come with the server, not in the rack installation kit.

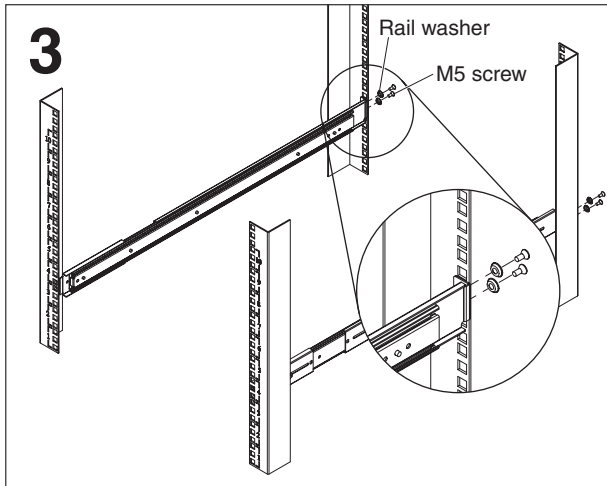


Remove the inner rails from the slide rail assemblies.

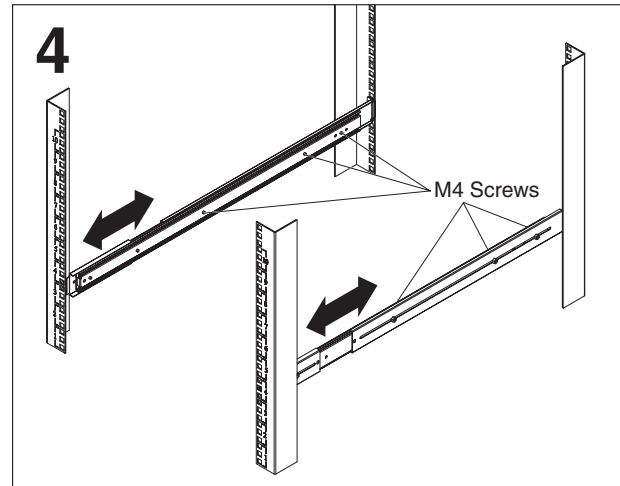
1. Push the rail release latch forward on a slide rail assembly.
2. Pull the inner rail completely out from the slide rail assembly.
3. Repeat these steps to remove the inner rail from the other slide rail assembly.



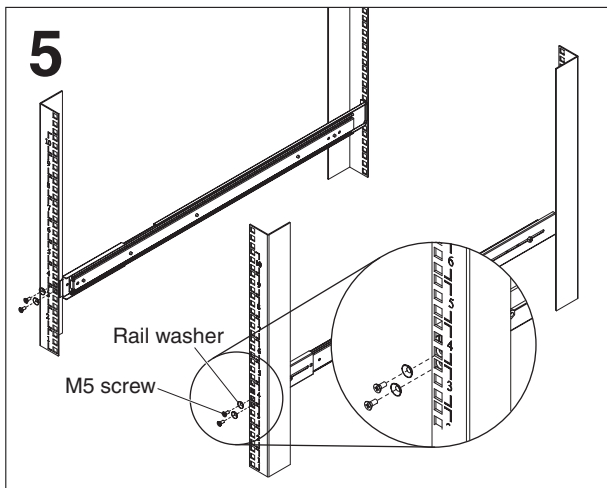
Attach an inner rail to each side of the server using three M4 screws for each side.



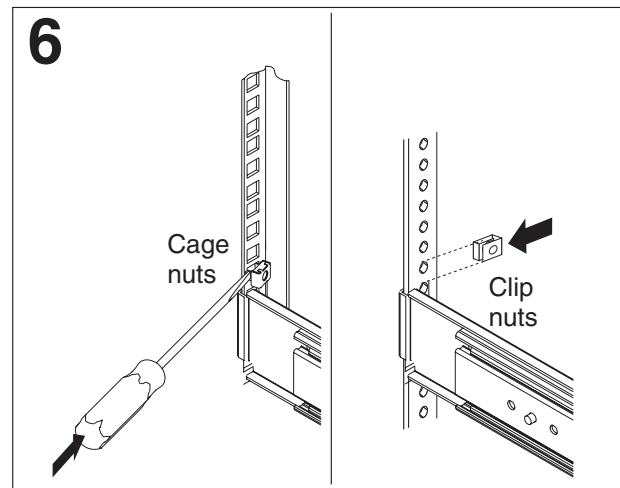
Install the outer slide rails to the rear of the rack post using two washers and two M5 screws for each rail.



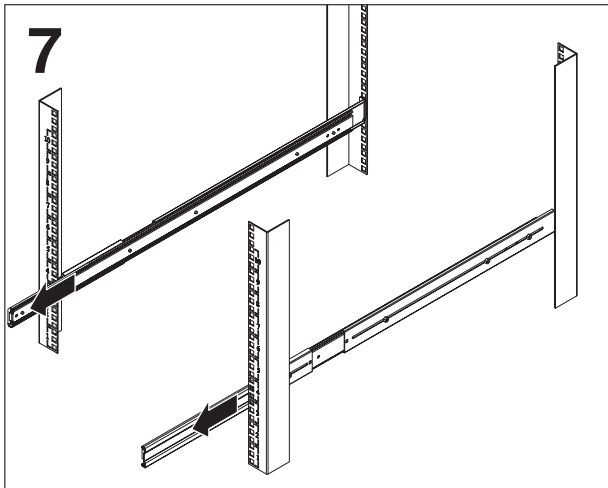
Loosen the M4 screws on the slide rails to slide the outer slide rails to fit the length of the rack. Tighten the M4 screws when the front of the slide rails align with the front rack posts.



Align the front end of the outer slide rail with the correct holes in the front of the rack. Secure each slide rail to the front of the rack using two sets of M5 washers and screws.

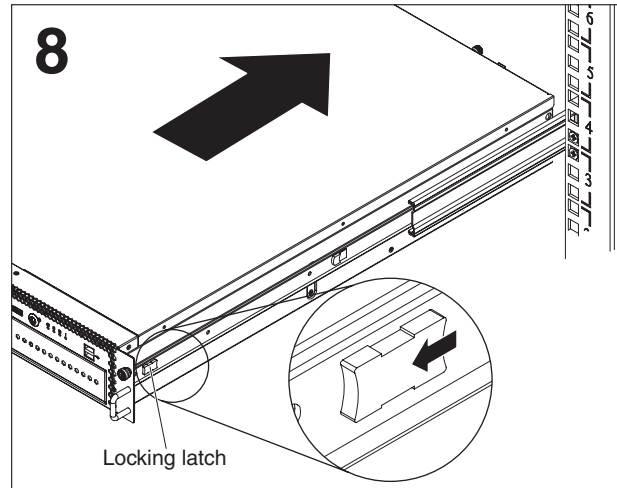


If you are installing the server in a rack with square holes, install a M5 cage nut on each side of the rack, directly above the slide rails. If you are installing the server in a rack with round holes, install a M5 clip nut on each side of the rack, directly above the slide rails.



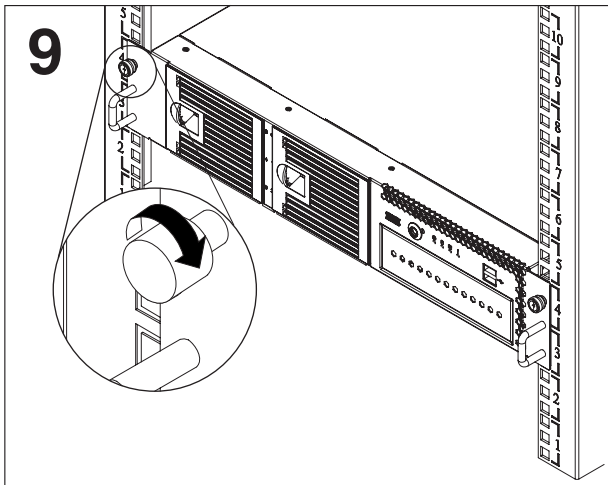
**Note:** Make sure the slide rails are securely installed in the rack.

Extend the slide rails fully from the rack until the slide rails click and lock in place.



Install the server in the rack.

1. Align the rails on the sides of the server with the slide rails extended from the rack. Be sure that the rails on both sides of the server are correctly aligned with the slide rails on both sides of the rack.
2. Pull the locking latches on both the inner rails forward, then carefully slide the server into the rack until the front of the server is flush with the front of the rack.



To secure the server in the rack, tighten the two thumb screws on the front of the server into the clip nuts or cage nuts. Attach the power cords and other cables to the rear of the server. See the server *Installation Guide* for the locations of the cable connectors.

**Note:** When you attach the cables to the rear of the server, make sure that you leave enough slack in the cables so that you can slide the server in and out of the rack without accidentally pulling the cables out of the connectors.

**Note:** To slide the server out of the rack, release the thumb screws and press on the release latches.

To remove the server from the rack, reverse the installation instructions. Store this information with your server documentation for future use.

---

**First Edition (February 2008)**

**Printed in the U.S.A.**

IBM is a trademark of the IBM Corporation in the United States, other countries, or both.

**© Copyright International Business Machines Corporation 2008. All rights reserved.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

(1P) P/N: 40M2499

