

Servers in network racks



Article Overview

Servers in network racks are organized, mounted, and managed within standardized enclosures to optimize space, airflow, power, and security.

Overview of Server Racks

A server rack is a metal frame or cabinet designed to house IT equipment such as servers, switches, routers, storage devices, and power systems in a centralized, organized manner . Racks improve airflow, cable management, and physical security, while making maintenance and troubleshooting more efficient . Standard racks follow the EIA-310 19-inch width standard, with height measured in rack units (U), where 1U equals 1.75 inches . Depth and weight capacity vary depending on equipment and rack type.

Types of Servers in Racks

- **Rackmount Servers:** Flat, modular units that slide into the rack, available in 1U, 2U, 4U, or larger sizes. They are ideal for high-density deployments and allow easy access for maintenance .
- **Blade Servers:** Compact modules that fit into a shared chassis, offering high compute density and shared power/cooling resources .
- **Storage Arrays:** SAN or NAS devices can also be mounted in racks to centralize data storage .

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