

# Where should the core switch be connected



## Summary of Content

A core switch should be connected at the backbone of the network, directly linking to distribution switches to aggregate and route traffic efficiently across the network.

### Core Switch Placement

A core switch sits at the top of a hierarchical network, forming the backbone that interconnects all major network segments. It is not directly connected to end-user devices; instead, it aggregates traffic from distribution switches, which in turn connect to access switches and end devices (computers, printers, Wi-Fi access points) . This placement ensures high-speed, low-latency data transfer across the network and prevents bottlenecks.

### Connection Guidelines

- **Connect to Distribution Layer:** The core switch should have high-capacity links to all distribution switches. These links often use high-speed ports (10G, 25G, 40G, or higher) to handle aggregated traffic .
- **Redundancy:** For reliability, multiple core switches can be deployed in a redundant configuration, with each distribution switch connecting to more than one core switch. This prevents a single point of failure .
- **Centralized Location:** Ideally, the core switch should be centrally located within the network topology to minimize latency and optimize spanning-tree operations .

## Article Content

### Core Switch vs. Distribution Switch vs. Access Switch

These data switches are responsible for routing and data switching at the core layer of the network. The data routed and switched by

### What Is a Core Switch? Network Backbone Architecture Guide

In a large enterprise, the core switch aggregates data from multiple distribution switches and routes it rapidly across

### What Is Core Switch?

The core switch resides at the core layer, connecting multiple distribution layer switches. Its primary function is to

### Understanding Core Switch: What It Is and How to Choose the Right

This article delves into the concept of core switches and offers guidance on selecting the right one for your network.

### Features and Applications of Core Switches

In enterprise networks, Core Switches typically reside in the core part of the network topology, shouldering the

### What Is a Core Switch in Networking?

Unlike access switches, which connect directly to end-user devices, the core switch focuses on aggregating and

### Understanding Core Switch: What It Is and How to Choose the

By taking these considerations into account, you can make an informed decision when selecting a core switch that

### What is a Core Switch | Functions and Difference over Normal Switch

It is a powerful backbone switch in the center of the network core layer, which centralizes multiple aggregation

### What Is a Core Switch?

Sitting at the top of the hierarchical model, core switches interconnect distribution layer switches and provide high-speed data

### Core Switches: The Pillar of Network Infrastructure

In the hierarchical network model, the core layer, where the core switch resides, is the backbone of the network. It is

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: [sales@benniedesignstudio.co.za](mailto:sales@benniedesignstudio.co.za)

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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