Can access switches be connected in series



Overview

How to Connect Multiple Ethernet Switches A: Yes, switches from different brands can usually be connected via standard Ethernet ports, as long as they foll.

Key Takeaways

Connecting access switches in series is generally not recommended due to potential performance, redundancy, and fault-tolerance issues.

Understanding Series Connection

In a typical network, access switches connect end devices to the LAN and then uplink to distribution or aggregation switches, which in turn connect to the core layer. When access switches are connected in series (daisy-chained), traffic from devices on downstream switches must pass through upstream switches to reach the rest of the network. This setup can create single points of failure, as a failure in any upstream switch can isolate all downstream devices.

Implications of Series Connection

Performance Bottlenecks: Traffic from multiple downstream switches converges on a single uplink, potentially saturating the link and causing latency or packet loss. Reduced Redundancy: Without redundant uplinks, a single switch failure can disrupt connectivity for multiple devices. Complex Troubleshooting: Identifying network issues becomes more difficult because multiple switches depend on each other for connectivity.

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Limited Scalability: Adding more switches in series increases the risk of congestion and failure propagation, making the network harder to scale.

Best Practices

Star Topology: Connect each access switch directly to a distribution or aggregation switch rather than daisy-chaining. This improves performance, redundancy, and fault isolation. Redundant Uplinks: Use dual uplinks from access switches to distribution switches to ensure resiliency.

Stackable Switches: Consider stackable access switches (e.g., Cisco C9350 Series) that behave as a single logical switch, simplifying management and reducing the risks associated with series connections.

Segmentation and VLA

Ns: Properly segment traffic using VLANs to reduce broadcast domains and improve network efficiency.

Conclusion

While connecting access switches in series may work in small or temporary setups, it is not recommended for enterprise or campus networks due to performance, redundancy, and scalability concerns. Following hierarchical design principles with direct uplinks to distribution switches and implementing redundancy ensures a more reliable and manageable network.

Article Content

How to Connect Multiple Ethernet Switches

A: Yes, switches from different brands can usually be connected via standard Ethernet ports, as long as they follow the same networking protocols. However, advanced features like stacking or clustering

Unlocking the Potential: Running Ethernet in Series Explained

Ethernet networks are designed to function in a star topology, where each device connects to a central network switch or hub. Running Ethernet in series would create a daisy-chain

How Do Multiple Ethernet Switches Connect?

As the name suggests, a daisy-chain topology is one in which switches are connected in series, like the petals of a daisy. This is the easiest way to connect multiple switches in a network.

Linking of multiple Ethernet switches — cascading, stacking and ...

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Daisy chain topology, as suggested by its name, connects each switch in series to the next, akin to the petals of a daisy. This configuration can be linear (where the switches at both ends...

Linking of multiple Ethernet switches

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How Many Ethernet Switches Can Be Cascaded

Cascading, also known as daisy-chaining, is the process of connecting multiple Ethernet switches together in a series. In a cascaded configuration, one switch is directly connected to

Building a Scalable Network by Daisy-Chaining PoE Switches

Daisy-chaining in networking refers to connecting multiple devices (in this case, PoE switches) in a linear series. Each switch is linked to the next in this configuration, forming a chain.

Switches in series, is it a good idea? : r/HomeNetworking

My current switch has 5 ports so I would "reuse" at the end of laptop 2+printer and buy a new (possibly 8 port, gigabit) switch to replace it in position of switch 1. Yes, switches can be connected together

Best practice for chaining switches together?

Two 10gb fibres connect adjacent pairs of buildings so as to form a "ring". The switches will present numerous vlans on their access ports. Some vlans are unique to a given building and will

can we connect two switches, when using access mode

Yes, you can connect two switches with access ports, and you just need to say "switchport mode access" and "switchport access vlan ID " on the ports that you would connect

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Cisco Meraki Local Status Page: Overview

Accessing the local status page Most Cisco Meraki devices have a local status page that you can access to make local configuration changes, monitor device status and channel utilization,

How Many Ethernet Switches Can Be Cascaded

Discover the power of cascading Ethernet switches and learn how many can be linked together for seamless network expansion.

How to Connect Multiple Ethernet Switches

Cascade vs Stack vs Cluster: Learn how to connect multiple Ethernet switches, compare the key differences, and choose the best setup to boost your network performance.

Switch Connection or Wiring in Series and Parallel

Connecting switches in series and parallel configurations can be useful in various electrical and electronic applications, primarily to control the flow of current in a circuit. For example,

Understanding the Role of an Access Switch in Your

Explore the crucial role of an access switch in your network. Learn how it connects end-users and devices via Ethernet, enhancing overall

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