

Simultaneous network access to the switch



Article Overview

Multiple devices or interfaces can access a switch simultaneously using techniques like NIC teaming, link aggregation, VLAN trunking, or switch stacking, depending on your network goals.

Connecting Multiple Interfaces

If your goal is to increase bandwidth or provide redundancy, you can use link aggregation (also called NIC teaming) to combine multiple network interfaces into a single logical connection. This allows traffic to be distributed across multiple NICs while maintaining a single IP address for the host . On Windows, NICs can also be bridged to connect two separate networks transparently, allowing devices on an isolated LAN to access resources on an external network through a bridge .

Accessing Multiple VLANs

Switch ports can be configured as access ports (for a single VLAN) or trunk ports (for multiple VLANs). A trunk port can carry traffic for multiple VLANs simultaneously, while an access port is limited to one VLAN. You cannot have a port act as both access and trunk at the same time; the configuration must explicitly define the mode . For hosts that need access to multiple VLANs, you can either use a trunk port with VLAN tagging or multiple NICs connected to different VLANs.

Connecting Multiple Switches...

Article Content

Switch Port VLAN Assignment (Trunk & Access Ports)

Switch Port VLAN Assignment (Trunk & Access Ports) Configuring VLANs (Virtual Local Area Networks) on switch ports is essential

How to use Ethernet and Wi-Fi at the same time on Windows 11

To use Wi-Fi & Ethernet at the same time, first disable packet priority for both Ethernet & Wi-Fi adapters. Manually set

Can switch port be "access" and "trunk" at a time?

The command "switchport access vlan 166" doesn't mean that the port is trunk and access at the same time. Only

Run two separate networks over one managed switch | SNBForums

I'd like to have the network created by my ISP's router for TV and my NAS separate from my "home network" that I

Does an Ethernet switch allow the connected devices simultaneous ...

Does an Ethernet switch allow the connected devices simultaneous internet access? My modem is on the other side of the house, I

Connecting two Cisco switches via Access Ports : r/networking

Connecting two Cisco switches via Access Ports Hello All, I know there is many forum posts on this topic, just hoping someone can

Best way to connect multiple switches together

Maybe the switches were just in awe of your amazing topology? Seriously though, if you can take the time, do it again, but only

Fully switched network

The core function of a switch is to allow each workstation to communicate only with the switch instead of with each other. This in turn

What is a Network Switch? How it Works and Types

Learn the importance of network switches, their operation and their different types. Examine the characteristics that set

Meraki Switches

Meraki cloud-managed network switch models Customers choose Meraki network switches for any location, topology, or connectivity

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