

What is an access switch also called a port



Summary of Content

An access port is a switch port that connects end devices to a single VLAN, handling untagged traffic and isolating the device within that VLAN.

Definition and Function

An access port is a type of switch port used to connect end devices such as PCs, printers, or servers to a network. It operates at Layer 2 of the OSI model, handling data link layer functions, and is assigned to a single VLAN, ensuring that all traffic from the connected device stays within that VLAN. Unlike trunk ports, access ports do not carry traffic for multiple VLANs and do not use VLAN tagging.

How It Works

When an end device sends data to the network, the access port forwards the untagged frames to the switch. The switch internally associates the traffic with the VLAN configured for that port, often using a Port VLAN ID (PVID). Before the frame leaves another access port to reach the destination device, the switch strips any VLAN tags, so the endpoint only sees raw, untagged traffic. This simplifies communication for devices that do not support VLAN tagging.

Advantages

- **Simplicity:** Easy to configure and manage compared to trunk ports.
- **Security:** Isolates devices to a single VLAN, reducing broadcast traffic exposure.
- **Compatibility:** Works with standard devices that cannot interpret VLAN tags.

Article Content

What Is an Access Switch? The Definitive Edge Network Guide

Learn what an access switch is, how it works at the network edge, why PoE and port density matter, and how Wi-Fi 7

Access and trunk ports

This article describes the access and trunk ports. Their differences and where each type is used are also explained.

Modem, Router, Switch, and Access Point: What's the Difference?

Don't know the difference between a modem and a router? Unsure what an access point does compared to a switch?

What is Access Port in Switch?

If you want to configure the interfaces of the Switches for end-user devices, you need to specify those ports as Access

7-3 Types of Switch Ports

A switch port can be in one of two modes: access and trunk. There are two ways a switch port can settle down into one of these two

What is an access switch and how to select access switches?

Selecting access switches is not only a technical decision, but also a crucial step in shaping the future network

Ethernet Switch Port Types? Access, Trunk, Hybrid, etc...?

I am looking for a table that lists the port types for the major switch manufacturers and what they're called on each others switches,

Description of Switchport Mode Access vs Trunk Modes on Cisco Switches

In this article, we will discuss a couple of core concepts of network switching which are about Access and Trunk ports and how to

Difference Between Trunk Port and Access Port

Trunk ports facilitate the transfer of multiple VLAN traffic streams across switches, while access ports enable data

What Is an Access Port?

An access port is a type of switch port that lets untagged traffic move between end devices and the network. It's assigned to one

Understanding the Role of an Access Switch in Your Network

A: Access switches, also called data switches, are designed primarily for connecting end-user devices to the network.

What is a Switch Port? An Overview of Switch Port

An access port is a connection on a switch that transfers data to and from a specific VLAN . It is used to link servers,

Core Switch vs. Distribution Switch vs. Access Switch

Core Switch vs. Distribution Switch vs. Access Switch: Understand Their Roles in Ethernet Networks Ethernet networks are growing

What is an Ethernet Switch? Ethernet Switching | Fortinet

An Ethernet switch, or network switch, is a type of networking hardware that uses multiple ports to communicate between devices in

Network switch

Network switch Avaya ERS 2550T-PWR, a 50-port Ethernet switch A network switch (also called switching hub, bridging hub,

Access and trunk ports

access port – a port that can be assigned to a single VLAN. This type of interface is configured on switch ports that are connected to

Differences Between Access ports and Trunk ports

In access mode, the port connects an end device to the network and functions within a single VLAN. In trunk mode,

Access and Trunk Ports

Access ports are used to connect end devices, such as PCs, printers, and servers, to the switch. These ports are

What is access switch and how to choose the right one

By understanding these nuances, I'm sure you can understand “what is access switch” is and confidently navigate the

What is an Ethernet switch?

Ethernet switches have also become the common network switch type and foundational technology for most networks. How is

Access Port vs Trunk Port: The Ultimate Guide to VLAN Modes

An access port and a trunk port differ fundamentally in how they process Virtual Local Area Network (VLAN) traffic. An

Different Types of Network Switches

There are several types of network switches and understanding the differences can help you make the right choices for your small

Access ports vs trunk ports | ManageEngine OpUtils

Access port vs. trunk port: 7 key differences Understanding the core data frame processing capability, functionalities, and key

What is a Switchport | Basic Definitions, Types, and Functions

The three primary types of switch ports in this kind of network are access, trunk, and hybrid: Access Ports: A network

What is a Network Switch? How it Works and Types

A data frame is flooded to all ports in the switching domain if it is forwarded to a MAC address that the switch

What is a computer port? | Ports in networking

What is a port? A port is a virtual point where network connections start and end. Ports are software-based and managed by a

Core Switch vs. Distribution Switch vs. Access Switch

The access switch is the network switch that connects the access layer with the subnets. The subnets are integrated with access

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