

The switch port is not connected to this VLAN



Article Overview

This error usually occurs when a switch port is not assigned to the correct VLAN or the port mode (access/trunk) is incompatible with the VLAN configuration.

Common Causes

- **Port Mode Mismatch:** If the switch port is configured as a trunk but the VLAN is not allowed on the trunk, or if the port is an access port assigned to a different VLAN, traffic will not flow correctly .
- **VLAN Not Assigned:** The VLAN may not be created on the switch or the port may not be added to the VLAN, causing the port to be effectively disconnected from that VLAN .
- **VLAN Tagging Conflicts:** In virtualized environments, if the ESXi portgroup or virtual switch is sending tagged packets but the physical switch expects untagged traffic (or vice versa), packets may be dropped .
- **Physical Layer Issues:** Faulty cables, incorrect connections, or hardware problems can prevent the port from properly joining the VLAN even if configured correctly .

Troubleshooting Steps

- **Verify VLAN Existence:** Use the switch command (e.g., show vlan brief) to ensure the VLAN exists and is active on the switch .
- **Check Port Mode:** Determine if the port should be an access or trunk port. Access ports carry a single VLAN, while trunk ports can carry multiple VLANs. Adjust the port mode if necessary .

Article Content

Configuring VLANs on Cisco Switches

Master configuring VLANs on Cisco switches. Learn to configure Access and Trunk ports, and Native VLANs and Allowed VLAN

show vlan Explained – Output Fields, Port Assignment, VLAN Status ...

show vlan is the primary Cisco IOS switch command for inspecting the VLAN database. It displays every VLAN that exists on the

Problem communicating between 2 switches on the same VLAN

I have a short cable from Port 1 on Switch 1 to Port 1 on Switch 2 and another from Port 2 to Port 2. In this configuration

VLAN Mismatch Alerts for Meraki Switches

Meraki switches will display an alert if mismatched VLAN settings are detected between connected switchports. This document

Troubleshooting VLANs & Trunks

This lesson explains the most common VLAN and trunking issues and how to fix them.

Solved: no internet access for vlan devices

In preparation for this i've gotten my hands on a cisco emi 3550-48 port switch so i can play and test some scenario's.

Troubleshoot Switch Port and Interface Problems

By carefully reviewing and adjusting the configurations on the switch and VMware server, you should be able to

Solved: Device won't connect with VLAN

The project is made up of a multilayer switch with 5 vlans which are inherited by the switches. Every VLAN has an IP

Solved: VLAN doesn't add port

! Issues: - I can not ping the switches across this connection. - If I change the HP OfficeConnect port from anything but

Troubleshooting VLAN Connectivity Issue on Cisco Switch

I'm currently facing a VLAN connectivity issue on my Cisco switch. I've configured the VLANs, but devices in different

Troubleshooting Common Issues with Switchport Mode Access

Switchport mode access is essential for configuring network devices in environments where end devices (e.g.,

Ports assigned to VLAN do not show up in the "show vlan" command

Trunk ports never show up under any VLANs. Resolution These are the reasons for this behavior: Trunk ports that are

Port not working for access to vlan

here is the simple steps to follows : 1. Login to switch. 2. issue command show IP interface brief, you get VLAN

How to configure and assign a Cisco switch access port to a VLAN

Access ports in switches are normally used to connect end devices like workstations and printers. Access ports belong to only a

HELP! Truncated Port

For switch ports facing a desktop/laptop, you will in almost any case configure the port to be an access port, and then associate the

Show VLAN not showing port once it is connected

When I run show VLAN command it shows I have two ports assigned to my relevant VLAN. When I connect a cable and

How to perform VLAN troubleshooting

How to perform VLAN troubleshooting Common VLAN issues include physical connectivity problems, duplex

Solved: VLAN doesn't add port

It would be nice if we could get some details of how the switch port is connected that connects to your Cisco switch.

Unable to assign a port to any VLAN

There is one port that I didn't see on any VLAN, neither is it a trunk. So I went config t, port, switchport access VLAN

VLAN Configuration Commands Step by Step Explained

VLAN Configuration Commands Step by Step Explained Switches do not understand

Troubleshooting VLAN Connectivity Issues

There can be a few different causes for VLAN connectivity issues: Incorrect configurations of the virtual portgroups

Trunk port not connecting other than default vlan

I have a router on a stick set-up. Router is connected to the main switch (cisco 2960x series) via trunk port. Which

Why interface VLAN doesn't come up if there is no access port ...

I see interface VLAN doesn't come up (even I have changed the native VLAN from 1 to 2 on each switch). Now moment

VLANs not connecting properly to switch/router

The switch will not be doing any routing, it will instead send the packets to the router which will then find the route and

Virtual Network (VLAN) Troubleshooting

The Primary (Native) Network of a switch port a device is connected to is not allowed (tagged) on an upstream switch port. The UniFi

Configure Port Virtual Local Area Network (VLAN) Membership of ...

A VLAN allows a group of hosts that are not connected to the same switch to communicate as if they were on the

Cisco VLAN Troubleshooting Commands And VLAN Issues

This article offers practical tips and solutions for VLAN troubleshooting, including how to verify VLAN tagging, and

Fix VLAN Misconfiguration: Step-by-Step Guide

Incorrect VLAN settings can cause traffic disruptions, unauthorized access, and inefficient network performance. This guide will help

VLAN configuration on virtual switches, physical switches, and virtual ...

ESXi/ESX host network adapters are connected to access ports on the physical switch. The portgroups connected to

Cisco Switch not passing vlan traffic

I have 2 WS-C3750G-48TS-S cisco switches that have the same vlan configurations between the 2 with a fiber uplink as the the

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