

How to disable network ports on an industrial switch

Article Overview

Network ports on an industrial switch can be disabled using either command-line interface (CLI) commands or graphical management tools, depending on the switch model and vendor.

CLI Method (Common for Cisco and Similar Switches)

- o Access the switch CLI via console, SSH, or Telnet.

- o Enter privileged mode:

```
CodeCopySwitch> enable
```

- o Enter global configuration mode:

```
CodeCopySwitch# configure terminal
```

- o Select the port or range of ports to disable:

```
CodeCopySwitch(config)# interface fa0/1 Or for multiple ports:
```

```
CodeCopySwitch(config)# interface range fa0/1 - 12
```

- o Disable the port(s):

```
CodeCopySwitch(config-if)# shutdown
```

- o To re-enable a port later:

```
CodeCopySwitch(config-if)# no shutdown
```

This method is effective for most Cisco Catalyst switches and other CLI-managed industrial switches, enhancing security by preventing unauthorized access on unused ports .

GUI-Based Method (Common for Aruba and Other Managed Switches)

- o Log in to the switch management interface.

- o Navigate to Configuration > Ports > Ports.

- o Select the switch and the ports you want to disable.

- o If a port is part of a configuration (VLAN, LAG, ACL, port mirror, or tunnel), remove it from that configuration first.

- o Use the Actions > Enable/Disable option to disable the selected ports.

- o A success message confirms the ports are disabled .

Disabling Services and TCP/UDP Ports

For additional security, you can disable unused services and TCP/UDP ports:

- o Disable unnecessary protocols such as RIP, Telnet, FTP.

- o If TCP/UDP ports cannot be disabled directly, use access control lists (ACLs) to block traffic on those ports.

- o This approach follows the minimum authorization principle, ensuring only required services are active .

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Best Practices

- o Document which ports are disabled to avoid accidental disruption.
- o Regularly review port usage and re-enable ports only when necessary.
- o Combine port shutdown with port security features (MAC address filtering, VLAN assignment) for enhanced protection.
- o For switches that support SNMP, configure trap notifications to monitor port status changes . By following these methods, you can effectively disable unused or unnecessary network ports on industrial switches, improving network security and reducing the risk of unauthorized access.

Hi, We have two Dell Power Connect 6224 switches and we are trying to disable a couple of ports to prevent them

Disable unused services and Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) ports based on

ExtremeXOS®; User Guide Version 31.3 > Configuring Slots and Ports on a Switch > Configuring Ports on a Switch > Enabling and

When you disable a port, the system marks that port as administratively down, without removing the port

Set interface gigabit port enable or disable. Turn off gigabit port. #169; 2024 Extreme Networks.

On a cisco switch such as a catalyst 2900 & 3500 series switches, you can just shut the port down. It treats each port

September 26, 2024 Professional guide for selecting Industrial Ethernet Switch ports In the deployment of IIoT, Industrial Ethernet

The EDS-208A Series 8-port industrial Ethernet switches support IEEE 802.3 and IEEE 802.3u/x with 10/100M full/half-duplex,

If you mean switch ports not connected to anything, I leave them enabled in secure locations so it's easy for me to plug

Internal security policies may mandate that an unused port must be protected by several layers to disallow access to

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I have a 48 ethernet port switch with 4 gig interfaces and i want to disable all the ethernet ports (1-48). Is there a way i

Enabling or Disabling Switch Ports Select the Configuration > Ports > Ports page. If not already selected, select the fabric and the

In the IIoT and a wide range of industrial applications, industrial switches serve as the core devices for network connectivity. The

In this video, I demonstrate how to disable unused ports on network devices like routers,

Hello All, Sort of a fringe question, but I discovered that my primary trunk port 0/47 on my lab's core switch (to the

Hands-on lab showing how to disable unused switch ports to improve network security. CompTIA Network+ and A+ practical lab

Web: <https://www.kremgroup.co.za>

