

Debugging the 400G Access Switch



Overview

After connecting to the switch, enter the debug admin command at the displayed ztn-config prompt. This command provides access to the switch CLI prompt for directly managing or troubleshooting the switch. The following commands are available in the ZTN console:

The Cisco Nexus 9300-GX switches are ideal for general-purpose deployments, High Performance Computing (HPC), High Frequency Trading (HFT), Massively Scalable Data Centers (MSDCs), and cloud networks. Designed for data-center top-of-rack deployments, the Cisco Nexus 9300-GX Series provide 24 to 256. This chapter describes how to manage switches and interfaces after installing the monitoring fabric switches. Switches Interface Basics: Learn about Switch Interfaces, Physical Interface Properties, Logical Interface Properties, Damping. Anyone has done testing with 400Gbps Network Interface Card with iperf?

What are the maximum bandwidth. If using Mellanox, do you go for InfiniBand or Ethernet mode?

I wonder if there are some default configs in the cards that would allow you to easily test the cards?

I may be wrong here, but I. With increasing network bandwidth demands and server processing capabilities, 400G NICs have become essential components in today's high-bandwidth data centers. The latest SmartNICs offer either two 25G/50G/100G/200G ports or a single 400G OSFP/QSFP112 port, featuring 50G PAM4 SeDes capabilities. This article will introduce what 400G Ethernet is, how it improves data center network performance, and will focus on the roles of switches, network interface cards (NICs), optical modules, and cables in a 400G Ethernet architecture, and how they are interconnected in actual deployments.

Article Content

Mar 09, 2026

H100 InfiniBand Solution Delivery Manual

Conversely, if the Spine switch's port count is insufficient to meet the connection needs of all switches, a three-tier architecture is necessary. For example, in a network design, if a Spine switch has 64 ports

Jun 28, 2026

Interfaces User Guide for Switches

Use this guide to configure, monitor, and troubleshoot the various supported Ethernet Interfaces, including aggregated Ethernet Interfaces on Juniper Networks switches.

Jan 13, 2026

400G OSFP Implementation Guide: Step-by-Step Deployment

Learn how to deploy 400G OSFP transceivers with step-by-step installation, switch configuration for Arista/Cisco/NVIDIA, fiber requirements, and troubleshooting.

Jul 04, 2026

100G 400G Testing Guide

Access to robust and reliable 100G equipment is essential to achieving commercial success and accelerated adoption. Part of the solution lies in the rigorous testing of both 100G Ethernet and

Feb 05, 2026

Debugging AS/400 Stored Procedure Calls from the Client (Part 2)

Now you are ready to run the Start Debug (STRDBG) command and set your stored procedure source code breakpoints using the AS/400 source code debugger. See "Debugging

Sep 09, 2025

SSE-T8032S Supermicro SSE-T8032 400G Ethernet Switch

Supermicro SSE-T8032 400G Ethernet Switch In the realm of cutting-edge applications like hyper-scale cloud computing and AI/ML clusters, one key requirement is the scale and robustness of 400 Gigabit

May 03, 2026

400G Ethernet Network Gigabit Switches

FS Ethernet switches and optical modules enable seamless connectivity and efficient data exchange for HPC/ML workloads.

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How To Enable USB Debugging On A Locked Android Phone

In this video guide, learn what are the ways you can try to enable USB debugging on locked Android or Samsung phones Get the complete article on: [andr...](#)

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Best Practices for 400G ConnectX®-7 NIC and Switch

This solution uses an 800G switch and NVIDIA® ConnectX®-7 400G NICs for efficient 2x400G breakout. Each 800G port connects to two 400G NICs

Jan 02, 2026

A Guide to 400G Ethernet and 400G Network

A practical guide to 400G Ethernet and 400G network interconnections, covering switches, NICs, optical transceivers, and DAC/AOC

Jul 31, 2025

2026 Enterprise Switching Trends: 1G to 10G/25G

Summary The 2026 enterprise "default upgrade" is no longer just faster access ports- it's a balanced plan: 10G as a common access baseline,

Aug 09, 2025

DMF Deployment Guide

After connecting to the switch, enter the debug admin command at the displayed ztn-config prompt. This command provides access to the switch CLI prompt for directly managing or troubleshooting the

Sep 09, 2025

H3C 400G Ethernet Technology White Paper-6W100

The S9855 switches are uplinked to the S9820-8C switches through 400G links, enabling the deployment of a two-layer Remote Direct Memory Access (RDMA) network within a data center.

Feb 28, 2026

"The Many Paths to 400G" from Gazettabyte

"The reason why the top-of-rack switch is going to need 400-gigabit uplinks is because server speeds are going to go from 25 gigabits to 50

Oct 13, 2025

Cisco Nexus 9000 Series 400G Deployment Guide

Typical wiring solutions that include products from Cisco and Panduit are described. The wiring scenarios described here can be used in a Cisco Nexus 9300-GX 400G switch deployment.

Dec 25, 2025

400Gbps Network Interface Card iperf testing :

If using a switch or router to connect the NIC, which equipment brand, model, optical pluggable type, firmware version and port configuration worked best to test and

Jan 10, 2026

The Rise of 400G in Data Centers

The switch to 400G fundamentally alters the design and construction of data centers and data center interconnect (DCI) networks. The transition to

Oct 02, 2025

20180146_100G 400G Testing Guide_Inside_6x9_V7_EN

The first iteration of this interface considers 8 lanes from 50G PAM4 supporting up to 400G, but it has the potential of also supporting in the future 4 lanes from 100G PAM4 or even 8 lanes from 100G.

Oct 08, 2025

Cisco APIC Layer 2 Networking Configuration Guide, Release 6.0(x ...

You configure breakout on the down links (also known as the access-facing ports or downlink ports) and fabric links of the switches. Fabric links form the connections between the leaf

Dec 24, 2025

Cisco Nexus 9000 Series 400G Deployment Guide

The following scenarios in this section present the high-level cabling and optics requirements for the Cisco Nexus 9300-GX 400G switches. Typical wiring solutions that include

Jan 14, 2026

400G CFP8 FlexO FlexE OTN 802.3: VIAVI 800G XPM Module

This leading-edge instrument is ready for the 400G challenges today and future needs such as FlexO, FlexE and future OTN. The ONT 400G is based on the very latest IEEE 802.3 standards and

Oct 08, 2025

New Cisco Nexus 400G Performance Options to

Nexus 9300 Cisco is adding two new high-performance fixed data center switches to its existing 400G switch line up. The Nexus 9364D is a 2RU

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Viavi Solutions Inc. ONT-603D-400G 400G Test Set

The Viavi Solutions Inc. (formerly JDSU) ONT-603D-400G module is a comprehensive, integrated platform for design, development, and validation of

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Cisco 400G Data Center Networking

Transform your data center networking infrastructure with high-density 400G Cisco switches scalable to 800G. Optimized for simplicity and sustainability.

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For more information, pricing, or custom solutions, please contact us:

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