Instructions for using the upgraded version of the optical network switch



Overview

Set up user authentication using the Lightweight Directory Access Protocol (LDAP) on Cisco Optical Network Controller can be performed by following these instructions.

Key Takeaways

Upgrading an optical network switch involves preparing the device, uploading the new software, choosing the reboot method, and verifying the upgrade to ensure network stability.

Preparation and Prerequisites

Before starting the upgrade, ensure the following: The switch or ONT is powered on and in an ONLINE state. Backup the current configuration and host programs if supported, as many switches maintain a primary and secondary software version for failover. Confirm network connectivity for file transfer via FTP or TFTP for ONTs, or ensure console/terminal access for CLI upgrades on switches.

Schedule the upgrade during a maintenance window, especially if the switch requires a reboot or is part of an ISSU-capable build.

Upgrade Methods

Optical network switches can typically be upgraded using one of the following methods: CLI (Command Line Interface): Requires console access; commands must be executed carefully to avoid misconfiguration.

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Web

View: Recommended for ease of use and visual guidance during the upgrade.

SNM

P: Can be used for automated or remote upgrades if supported by the switch.

Upgrade Procedure

Upload the Software ImageTransfer the new software or firmware image to the switch or ONT using FTP/TFTP or WebView upload tools.

Select Reboot Method

Automatic Reboot: The device reloads automatically after the new version is copied and committed. Manual Reboot: The new version is copied, but the device must be manually reloaded to commit the upgrade.

Execute the Upgrade

For CL

I upgrades, follow the exact command sequence provided in the switch manual to avoid errors.

For Web

View, follow the guided interface to select the image and initiate the upgrade.

Monitor the Upgrade

Do not disconnect power during the upgrade process. Observe the device logs or WebView status to ensure the upgrade completes successfully.

Post-

Upgrade Verification

Confirm the switch or ONT is running the latest software version using commands like show version or equivalent in WebView. Test network connectivity and functionality to ensure no disruption occurred. If the device supports dual host programs, verify that the primary program is active and the backup is intact.

Additional Recommendations

Perform security and license updates as part of the upgrade cycle to maintain network integrity. For sensitive environments, consider physical port and fiber-link testing to prevent hardware issues during or after the upgrade. Maintain a log of the upgrade process for troubleshooting and compliance purposes.

Following these steps ensures a smooth upgrade of your optical network switch, minimizes downtime, and maintains network security and performance.

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Article Content

Cisco Optical Network Controller Configuration Guide, Releases 25.1.x

Set up user authentication using the Lightweight Directory Access Protocol (LDAP) on Cisco Optical Network Controller can be performed by following these instructions.

ONT Device Configuration, Cisco Catalyst PON Series Switches

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In this tutorial I''m going to lists the steps for upgrading a stack of 2960-X switches. The steps for a single switch are very similar except you''ll only be working with one flash directory and it

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One U ReadyRails installation Install the N3200-ON Series switch using one of the following installation instructions. You can install the ReadyRails system using the 1U tool-less square-hole method or

EOS 4.36.1F

Upgrades and Downgrades This chapter describes the procedures for upgrading or downgrading the switch software.

PowerEdge MX IOM operations | Dell PowerEdge MX Networking

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How to Upgrade Cisco IOS Switches and Routers Before we get to the steps I want to point out that there will be some variation in update steps between single switches and stack

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