

Multi-line access switch configuration method



Overview

Multilayer Switching Overview [Support] MLS provides high-performance Layer 3 switching for Cisco routers and switches. MLS switches IP data packets between.

Key Takeaways

Multi-line access on a switch is configured by setting up console and VTY lines with passwords and enabling login for each line to allow secure administrative access. Access Line Types

Switches typically support the following access lines:

- Console line: Physical port for direct local access; only one console line exists per device.
- VTY lines: Virtual terminal lines for remote access via Telnet or SSH; the number of VTY lines depends on the switch model (e.g., Cisco 2960 supports 16 VTY lines numbered 0-15) .
- Auxiliary and TTY lines: Mostly legacy; auxiliary ports are rare on modern switches, and TTYs are supported only on routers .

Configuring Console Line

- Enter global configuration mode:

Switch> enableSwitch# configure terminal

- Access the console line subconfiguration:

```
Switch(config)# line console 0
```

- Set a password for console access:

```
Switch(config-line)# password YourConsolePassword
```

- Enable login authentication:

```
Switch(config-line)# login
```

- Exit back to global configuration mode:

```
Switch(config-line)# exit
```

This ensures that anyone connecting via the console port must enter the password .

Configuring VTY Lines

- Enter line configuration for all VTY lines (example for 16 lines):

```
Switch(config)# line vty 0 15
```

- Set a password for remote access:

```
Switch(config-line)# password YourVTYPassword
```

- Enable login:

```
Switch(config-line)# login
```

- Optionally, configure transport protocols (Telnet or SSH):

```
Switch(config-line)# transport input telnet ssh
```

- Exit to global configuration mode:

```
Switch(config-line)# exit
```

This allows multiple simultaneous remote sessions, each tracked by the switch .

Additional Security and Management Tips

- Use strong, case-sensitive passwords for all lines.
- Consider enabling SSH over Telnet for encrypted remote access.
- Configure idle timeouts to automatically disconnect inactive sessions:

```
Switch(config-line)# exec-timeout 10 0
```

- Document line numbers and passwords securely for administrative purposes .

Summary

To configure multi-line access on a switch:

- Enter global configuration mode.
- Configure the console line with a password and login.
- Configure all VTY lines with passwords, login, and transport protocols.

- Apply additional security measures like SSH and idle timeouts. This setup ensures secure, manageable access for multiple administrators simultaneously, whether locally or remotely.

Article Content

Access Interface Connectivity

Access Interface Connectivity This workflow describes how to configure the Ethernet interfaces that connect to the end devices of a

IP MultiLayer Switching Sample Configuration

MultiLayer Switching (MLS) is Ethernet-based routing switch technology by Cisco that provides Layer 3 (L3) switching

Configuring Access and Trunk Interfaces

Configuring Access and Trunk Interfaces Ethernet interfaces can be configured either as access ports or trunk ports.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

