**Basic Cisco Switch Configurations**

When setting up a Cisco device, there are essential configurations that enhance security, usability, and management. Below are some fundamental commands for basic configuration.

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AI-generated content may be incorrect.

**Software Requirements.**

* Cisco Packet Tracer

**Devices**

* PC
* Switch

**Instructions**

* Connect the PC and the Switch with a console cable.
* Click the switch, and go to the CLI tab.

**1. Navigating User Levels**

Cisco devices have different privilege levels. By default:

**User EXEC mode (>)** – Limited access, mostly for viewing.

**Privileged EXEC mode (#)** – Full access to the device.

To switch between modes:

**Switch> enable** Moves to privileged EXEC mode

**Switch# configure terminal** Moves to global configuration mode

**2. Assign Hostname**

Sets a custom device name for easy identification.

Click on the switch, go to the CLI tab.

First you need to enter global configuration mode

**Switch> enable**

**Switch# configure terminal**

**Switch(config)# hostname MySwitch**

**MySwitch(config)#**

**3. Banner MOTD (Message of the Day)**

Displays a message upon login, often used for legal notices.

**MySwitch(config)# banner motd #Unauthorized access is prohibited!#**

**4. Enable Password (Privilege Mode Protection)**

Secures privileged EXEC mode with a password.

**MySwitch(config)# enable password mypassword**

**5. Line Console Password**

Sets a password for console access.

**MySwitch(config)# line console 0**

**MySwitch(config-line)# password cisco**

**MySwitch(config-line)# login**

**MySwitch(config-line)# exit**

**6. Line VTY Password (Telnet/SSH)**

Secures remote access (e.g., Telnet/SSH).

**MySwitch(config)# line vty 0 4**

**MySwitch(config-line)# password cisco**

**MySwitch(config-line)# login**

**MySwitch(config-line)# exit**

**7. Exec Timeout**

Sets the idle timeout (in minutes and seconds) for sessions.

**MySwitch(config)# line console 0**

**MySwitch(config-line)# exec-timeout 5 0 ! 5 minutes, 0 seconds**

**8. Logging Synchronous**

Prevents log messages from disrupting command input.

**MySwitch(config)# line console 0**

**MySwitch(config-line)# logging synchronous**

**9. Disabling IP Domain Lookup**

Prevents unnecessary DNS lookups when a wrong command is entered.

**MySwitch(config)# no ip domain-lookup**

**10. IP Domain Name**

Sets a domain name (useful for SSH setup).

**MySwitch(config)# ip domain-name mynetwork.local**

**11. Set Username and Password (For SSH)**

Creates a local user with privilege access.

**MySwitch(config)# username admin privilege 15 password adminpass**

**12. Encrypting Passwords**

Encrypts all plain-text passwords for security.

**MySwitch(config)# service password-encryption**

**13. Set Current Clock Time**

Manually sets the Switch’s clock.

**MySwitch# clock set 14:30:00 21 Feb 2025**