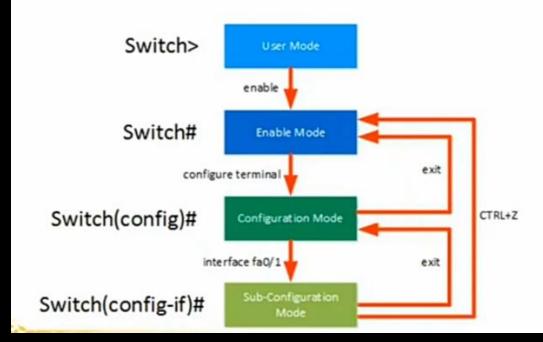
Managing Cisco IOS Files:

Basics of Cisco IOS

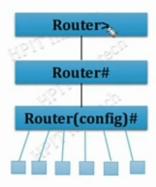


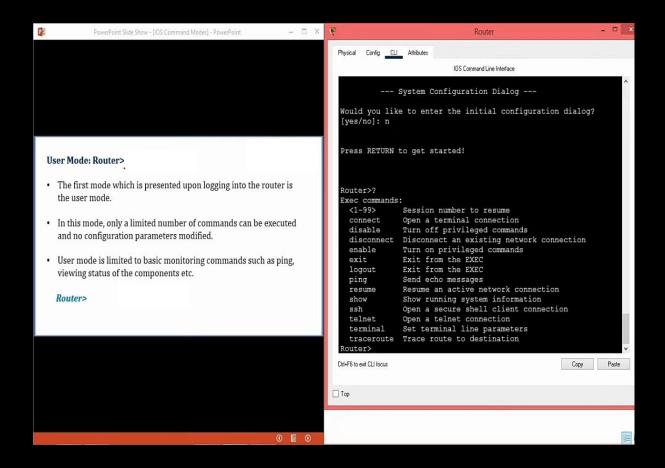
IOS Command modes

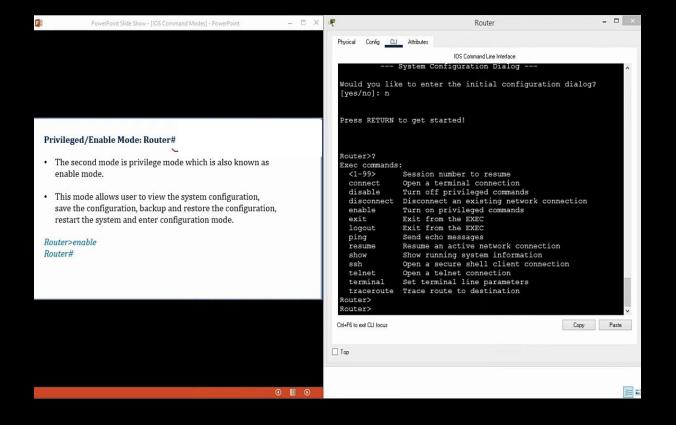
Cisco IOS has three main command modes

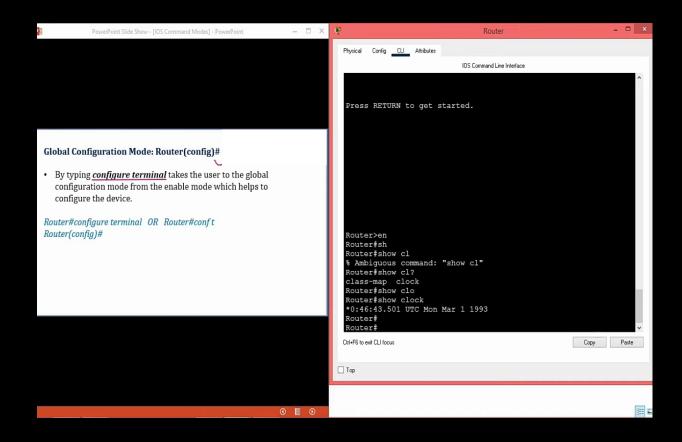
- ✓ User Exec Mode (User Mode)
- ✓ Privileged Exec Mode (Enable Mode)
- √ Global Configuration Mode
 - Specific (Sub) Configuration Mode

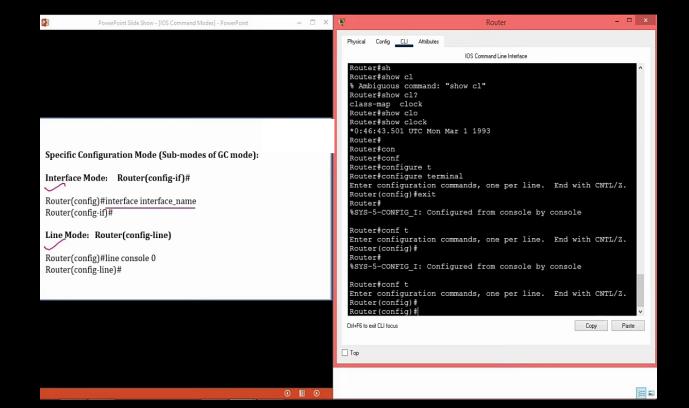
Interface, Line, Routing etc.

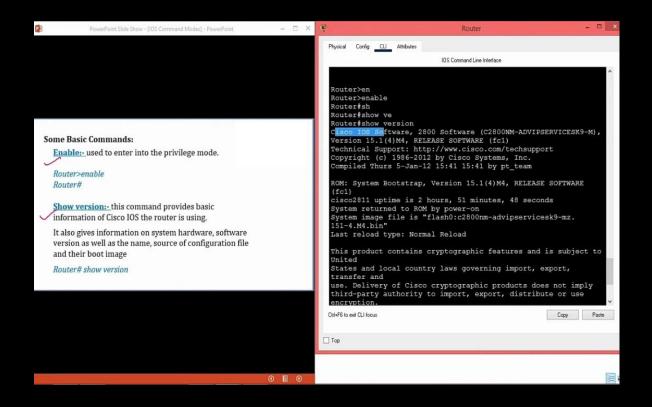


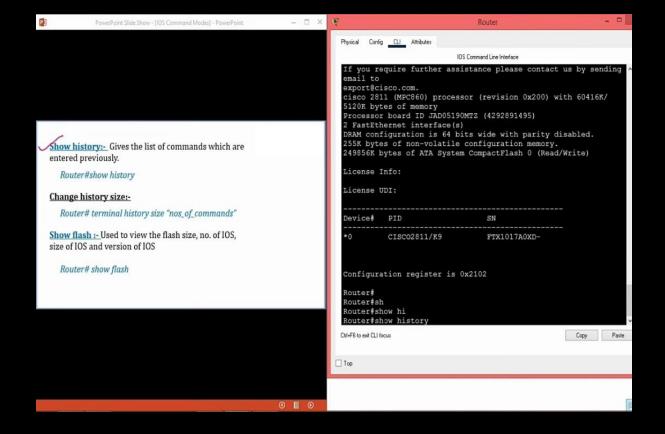


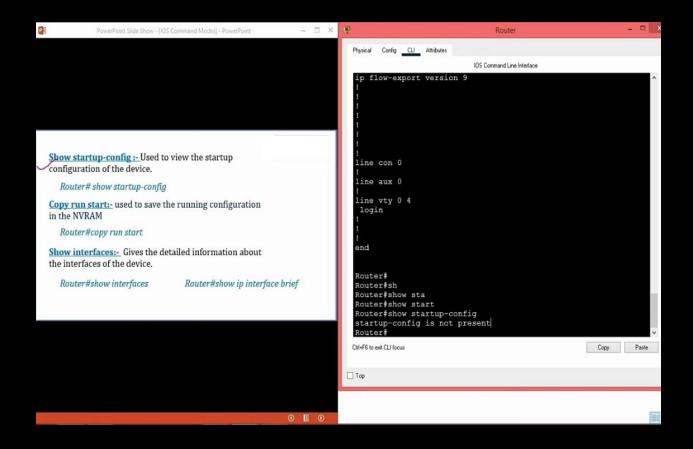


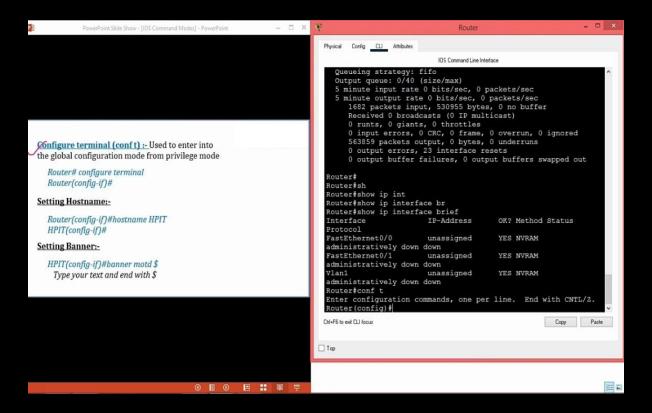












Managing Administrative Configurations

Assigning and Configuring Hostnames

- Change hostname:
- hostname Router1

Configuring IP Addresses and Interfaces

- Assign an IP address
- interface GigabitEthernet0/0
- ip address 192.168.1.1 255.255.255.0
- no shutdown

Setting Up a Default Gateway and Routing Basics

- Configure a default route
- ip route 0.0.0.0 0.0.0.0 192.168.1.254

Configuring Static and Dynamic Routing

- Static Routing
- ip route 192.168.2.0 255.255.255.0 192.168.1.2
- Dynamic Routing (RIP)
- router rip
- network 192.168.1.0

Logging and Monitoring Cisco Devices (Syslog, SNMP)

- Enable Syslog logging
- logging host 192.168.1.100

Erasing and Resetting Cisco Configurations

Clearing Running and Startup Configurations

- · Reset running-config
- erase startup-config
- reload

Using the 'write erase' and 'erase startup-config' Commands

- Permanently erase configuration
- write erase
- reload

Reloading a Cisco Router or Switch

- Restart the device
- reload

Recovering from a Lost Password

- Enter ROMMON Mode
- Reset password and reboot

Restoring a Device to Factory Defaults

- Reset entire device
- write erase
- reload