

Basic Device Configuration

Enter Privileged Exec mode	Switch> enable
Leave Privileged Exec mode	Switch# disable
Enter Global Configuration mode	Switch# configure terminal
Configuring a Device Name (Hostname)	Switch(config)# hostname NAME
Configuring a Console Port (Console)	Switch(config)# line console 0
Configuring a Console Password (Console)	Switch(config-line)# password PASSWORD
Activating password checking on the Console Port	Switch(config-line)# login
Activating Username/Password checking on the Console Port	Switch(config-line)# login local
Creating a timeout on the Console Port	Switch(config-line)# exec-timeout MINUTES SECONDS
Backup one level	Switch(config-line)# exit
Backup one level	Switch(config)# exit
Backup all levels	Switch# CTRL + Z or CTRL + C

The Show Commands to Know!

Shows information about the switch and its interfaces, RAM, NVRAM, flash, IOS, etc	Switch# show version
Shows the current configuration file stored in DRAM.	Switch# show running-config
Shows the configuration file stored in NVRAM which is used when the device boots.	Switch# show startup-config
Shows an overview of all interfaces, their physical status, protocol status and ip address if assigned.	Switch# show ip interface brief
Shows any Descriptions you've configured on your individual interfaces.	Switch# show interfaces description
Shows the status of all interfaces like connected or not, speed, duplex, trunk or access VLAN.	Switch# show interfaces status

Awesome Shortcuts

Create shortcuts for long commands	Router(config)# alias exec SHIP show ip interface brief
Configure a Banner Message that shows "everywhere"	Router(config)# banner motd \$ THIS IS MY MESSAGE \$
Encrypt all plain-text passwords stored on the device	Router(config)# service password-encryption
Stop those "pop-up" messages from cutting through your CLI	Router(config)# logging synchronous
Save your configuration	Router# wr or write or copy run star

Some Fun "Studies"

LearnCisco (Configuring a Cisco Router)	A Very Thorough Deep Dive
Lock down your Cisco Router (from the NSA?)	Hardening a Cisco Router

Configuring a Switch Management Interface

Access a specific switch VLAN interface SVI (common VLAN 1)	Switch(config)# interface VLAN #
Configure a reachable IP address and Subnet Mask	Switch(config-if) #ip address ADDRESS MASK
Activate the Switch management interface	Switch(config-if) #no shut
Exit the switch VLAN interface (SVI)	Switch(config-if) #exit
Configure a default gateway for the switch to send upstream traffic out of the local LAN	Switch(config)# ip default-gateway IP-ADDRESS-OF-UPSTREAM-ROUTER

Configuring a Router Network Interface

Locate your Router interfaces (learn their designations)	Router# show ip interface brief
Access Global Configuration mode	Router# configure terminal
Access a specific Router interface	Router(config)# interface gi0/0/0
Configure a reachable IP address and Subnet Mask	Router(config-if) #ip address ADDRESS MASK
Activate the Router interface	Router(config-if) #no shut

Configuring SSH for Remote Management

Configure the device hostname	Switch(config)# hostname NAME
Configure the Domain Name the device will operate on	Switch(config)# ip domain-name EXAMPLE.COM
Configure a username and password for remote management	Switch(config)# username admin password cisco
Generate encryption keys to "obfuscate" the management traffic	Switch(config)# crypto key generate rsa
Configure a minimum of 1024 bits for encryption security	How many bits in the modulus [512]: 1024
Define the SSH version to use (older versions have exploits/vulnerabilities)	Switch(config)# ip ssh version 2
Access the VTY lines (used for Telnet and SSH)	Switch(config)# line vty 0 4
Activate SSH on the VTY lines	Switch(config-line)# transport input ssh
Require a username and password combo	Switch(config-line)# login local
Save your configuration	Switch# wr



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