Basic Device Configuration

Enter Privieleged Exec mode	Switch> **enable**
Leave Privieleged 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 devic	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**

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Configuring SSH for Remote Management

Configure the device hostname	Switch(config)# **hostname** NAME
Configure the Doman Name the device will operate on	Switch(config)# **ip domain-name** EXAMPL-E.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**