

Cisco Command#1 BY kanisthaw Cheat Sheet by kanisthaw via cheatography.com/28442/cs/8364/

Router Modes

Router>: User mode = Limited to basic monitoring commands

Router#: Privileged mode (exec-level mode) = Provides access to all other router commands

Router(config)#: global configuration mode = Commands that affect the entire system

Router(config-subif)#: subinterface mode = Commands that affect subinterfaces

Router(config-line)#: line mode = Commands that affect in lines modes (console, vty, aux...)

Router(config-router)#: router configuration mode

Changing switch hostname

Switch(config)# hostname SW1

Configuring passwords

SW1(config)# enable secret nutty !MD5 hash SW1(config)# enable password 1234

Encrypting passwords

SW1(config)# service password-encryption

Working environment

SW1(config)# no ip domain-lookup SW1(config)# line vty 0 4 SW1(config-line)# history size 15 SW1(config-line)# exec-timeout 10 30 SW1(config-line)# logging synchronous

Saving configuration

SW1# copy running-config nutty ! Destination filename [nutty] SW1# wr

Description, speed and duplex

SW1(config)# interface fastEthernet 0/1
SW1(config-if)# description LINK TO
INTERNET ROUTER
SW1(config-if)# speed 100 ! Options: 10, 100, auto

! The range keyword used to set a group of interfaces at once.

Description, speed and duplex (cont)

SW1(config)# interface range fastEthernet 0/5 – 10

SW1(config-if-range)# duplex full (options: half, full, auto)

Setting the default gateway

SW1(config)# ip default-gateway 172.16.1.1

Securing console port

SW1(config)# line con 0 SW1(config-line)# password cisco SW1(config-line)# login

Aliases

! Used to create shortcuts for long commands.

SW1(config)# alias exec c configure terminal

Securing terminal lines

SW1(config)# line vty 0 4 SW1(config-line)# password cisco SW1(config-line)# login

Configuring banners

SW1(config)# banner motd \$

Giving the switch an IP address

SW1(config)# interface vlan 1 SW1(config-if)#ip address 172.16.1.11 255.255.255.0 ! or DHCP SW1(config-if)#no shutdown

Configuring switch to use SSH

▶ Configure DNS domain name :

SW1(config)# ip domain-name example.com

► Configure a username and password : SW1(config)# username admin password cisco

▶ Generate encryption keys :

! The size of the key modulus in the range of 360 to 2048

SW1(config)# crypto key generate rsa

How many bits in the modulus [512]: 1024

▶ Define SSH version to use :

SW1(config)# ip ssh version 2

▶ Enable vty lines to use SSH :

SW1(config)# line vty 0 4 SW1(config-line)# login local

! You can set vty lines to use only telnet or only ssh or both as in the example.

SW1(config-line)# transport input telnet ssh

Verify Basic Configuration

- ► Shows information about the switch and its interfaces, RAM, NVRAM, flash, IOS, etc SW1# show version
- ▶ Shows the current configuration file stored in DRAM.

SW1# show running-config

► Shows the configuration file stored in NVRAM which is used at first boot process.

SW1# show startup-config

▶ Lists the commands currently held in the history buffer.



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Verify Basic Configuration (cont)

SW1# show history

▶ Shows an overview of all interfaces, their physical status, protocol status and ip address if assigned.

SW1# show ip interface brief

▶ Shows detailed information about the specified interface, its status, protocol, duplex, speed, encapsulation, last 5 min traffic.

SW1# show interface vlan 1

▶ Shows the description of all interfaces

SW1# show interfaces description

▶ Shows the status of all interfaces like connected or not, speed, duplex, trunk or access vlan.

SW1# show interfaces status

▶ Shows the public encryption key used for SSH.

SW1# show crypto key mypubkey rsa

▶ Shows information about the leased IP address (when an interface is configured to get IP address via a dhcp server)

SW1# show dhcp lease



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