

Cisco CLI Comprehensive Commands Cheat Sheet by Mary F. Smith (boogie) via cheatography.com/86236/cs/21148/

User Levels Routers & Switches			
User Exec	Router Name>		
Privileged Exec	Router Name# [where network devices are configured]		
Global Exec	<pre>Router Name(config)# [configuration impact the entire device]</pre>		
Interface Config	Router Name(config-if)# [impacts a particular interface]		
Line Config	Router Name(config-line)		

Basic Config Routers & Switches			
router> enable disable	logs the user into/out of privileged exec		
router# configure terminal	logs user into global config		
router(config)#> hostname	re/name current device		
no hostname	removes name		
router(config)# exit	backs out one level to a previous levvel		
router> reload	reboots the device		
router(config)# end	Drops back to user exec mode		

Basic Commands | Routers & Switches

Router(config)# interface f0/0 int f0/0

Enter interface config

or

Router(config)# line console 0

or

Router(config)# interface gigabitethernet 0/0 int g0/0

Router(config-line)# exit

back up one step from any level

Router(config-line)# end

straight to user exec mode



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Securing privileged EXEC

S1(config)# enable secret Cisc0

pw protects the privileged exec line

Securing console port

S1(config)# line console 0

moves into line configuration mode

S1(config-line)# passsword Cisc0

sets console access password to "Cisc0"

S1(config-line)# login

turns on the password requirement

Securing the Virtual Ports [ssh & telnet]

S1(config)# line vty 0 15

moves into line configuration mode

S1(config-line)# Password Cisc0

sets virtual terminal access password to "CiscO"

S1(config-line)@ login

turns on the password requirement turns on the password requirement

Encrypting all Passwords

S1(config)# service password-encryption

encrypts all passwords

Message of the Day

S1(config)# banner motd #Authorized Access Only *#

S1# copy run start

adding Pipe Commands

R1# do show run |

include interface

exclude interface

begin hostname

NOTES

Commands are only case sensitive after the pipe

Startup-Config

regardless of current config; router will start up with this

until the current config is saved

Vocabulary

rommon read only memory

Hints

R1># no ip domain- [turns off auto dns query]

lookup

R1(config-if)# *no ip* [Removes IP Address]

address

ctl+a [cursor moved to the beginning of

the line]

ct+e [cursor moved to the end of the

line]

copy run start [copys running config to startup

config]

show run start [displays startup config]

*ctl+shift+6 STOP SEARCH

ip host switch1 Assigns the listed ip address [1.1.1.1] to

1.1.1.1 Switch1

1.1.1.1 Owiton1

? Open help documentation

enable secret Enables secret password and sets to abc123

abc123

vty - virtual telnet line

Remote Access

R2# telnet `with PW & access allowed; you will enter the

10.1.1.1 remote router *

CONFIGURE SERIAL PORT

R1(config)#

interface serial 0/0/0 $^{\rm int~f0/0}$ [moves into config for

s0/0/0]

R1(config-if)#

ip address 192.168.1.254 255.255.25 [sets ip &

subnet]

R1(config-if)#

no shut [powers on interface]

shut [powers off interface]

R1(config-if)#

copy run start



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CONFIGURE FAST ETHERNET PORT

R1(config)#

interface f0/0 int f0/0 [moves into config for f0/0]

R1(config-if)#

ip address 192.168.1.254 255.255.25 [sets ip & subnet]

R1(config-if)#

no shut [powers on interface]

shut [powers off interface]

R1(config-if)#

copy run start

Create and Name VLANs

Switch(config)# vlan 10

moves to vlan 10 config

Switch(config-vlan)# name Support

names vlan 10, "support"

Switch(config)# vlan 20

moves into vlan 20 from vlan 10

Switch(config)# name Development

names vlan 20, "development"

Assign switchport access

Switch(config)# int f0/1

enters config for f0/1

Switch(config-if)# switchport access vlan 10` *

Switch(config)# int f0/2

Switch(config-if)# switchport access vlan 20` *

Routing Configuration

Gateway of Last Resort

[restricted to edge [stub] routers only]

R1(config)# ip route 0.0.0.0 0.0.0.0 s0/0/0

Static Route administrative distance = 150

R1(config)# ip route 192.168.2.0 255.255.255.0 s0/0/0 150

routers only "know" what they are connected too

s* - default static route

c - direct connect

"Advanced" Show Commands			
show access- list	Displays the access-lists located on the device; including every line of the access-list [not which interface the list is list is applied to		
show vlan	Displays info and status of VLANs [on the device] i.e. VLAN names, numbers, and the interfaces on which each VLAN can be found		
show ip protocols	Displays info about Layer 3 protocols; RIP, OSPF and EIGRP [high level overview each protocol has its own show command]		
show interface trunk	Displays all trunk ports on the device; which VLANs are allowed on which trunk, what the native VLAN is.		

Verification Commands	
R1# show ip route	displays routing table
R1# show ip interface	
R1# show ip interface brief	displays the interface configurations
R1# show running-config	
	R1# show interface s0/0/0
	R1# show interface f0/0
	R1# show interface g0/0
R1# show version	displays IOS info and previous method of restart
R1# show mac address- table	dispalys contents of MAC Address Table
R1# *int g0/0	displays the listed interface info
R1# show clock	
R1# clock set	09:10:01 11 December 2019
	09:10:01 11 December 2019

** 'Do' - in front of a command will run the command at any level i.e. my device

(config)# do show ip interface brief -OR- my device (config)# do reload

Add a Ne



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 $R1\# \textit{copy run} \qquad \text{copies running config\saves to}$

flash:my config flash; names it my config

R1# erase start erases startup config

R1# copy copies my config and overwrites

flash:my config start up config

start

R1# copy run tftp

requests a remote add ip address of remote router

host

requests a file add unique file name w/ data

name

R1# more `allows you to view the config file

flash:my config

Storage for Operating System

IOS - Flash

startup Config - NVRAM

Running config - RAM

Error Messages

% Invalid input detected You are at the wrong level to run

at '^' marker command

% Incomplete command

response] no results to display

Your CLI command fails - are you in the right mode | level

- are you on the right device

Shortcuts

ctl+shift+6	stop current activity	
ctl+k	erases from cursor to end of line	
ctl+x	erases from cursor to beginning of line	

tab completes the command

Misc

mydevice (config)# sdm pre used if switch won't take IPv6 dual def address

Execute Commands

Build a server w/IP *ip host Server1 1.1.1.1*

Rename the router "My Router" hostname MyRouter



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