Cisco Device Configuration Commands (NET-126) Cheat Sheet

by River L. (Tamaranth) via cheatography.com/42882/cs/14413/

General Configurations

Command	Mode	Function
`terminal history size 200`	priv. EXEC	changes how many commands the history buffer stores *(for this session only)*

Dynamic Routing Protocol Configuration

Command	Mode	Function
`router [protocol]`	global	enables protocol & enters router config mode
`auto-summary`	router	enables automatic network # summarization
`default-information originate`	router	advertises default route info
`network [ip-address]`	router	enables dynamic routing for the network *(Directly connected nets only!)*
`network [ip-address] area 0`	router	assigns network to area 0
`passive-interface g0/1`	router	disables routing updates on that interface
`version [version]`	router	sets protocol version

DHCP Configuration

Command	Mode
`ip dhcp excluded-address [first IP] [last ip]`	global
`ip dhcp pool R1G1`	global
`network [network IP] [subnet mask]`	(dhcp-config)
`default-router [gateway IP]`	(dhcp-config)
`dns-server [dns IP]`	(dhcp-config)
`domain-name ccna-lab.com`	(dhcp-config)
`lease 2`	(dhcp-config)
`ip dhcp helper-address [dhcp server IP]`	interface *(on relay router)*

NAT Configuration

Short Command	Full Command	What It Does
`ip nat pool` *name* `[first IP] [last IP]` `net [subnet mask]`	`ip nat pool` *name* `[first IP] [last IP]` `netmask [subnet mask]`	defines the pool of public addresses to use

NAT Configuration (cont)

`ip nat in s l 10` `pool` *name* `ov`	`ip nat inside sour` `[acl#] pool` *name* `o`
`ip nat in`	`ip nat inside`
`ip nat out`	`ip nat outside`
`ip nat in s st` `192.168.1.10 209.165.200.18`	`ip nat inside sour` `[private IP] [glob`
----- Show Commands -----	
`sh ip nat s`	`show ip nat statis`
`sh ip nat t`	`show ip nat transl`

Trunking & Subinterfaces

Command
`encapsulation dot1Q`

Routing Table

Command
`interface loopback 0`
`ip route [network] [subnet] [exit-int|next-hop]` `ipv6 route [network/prefix] [exit-int|next-hop]`
`ip route 0.0.0.0 0.0.0.0 [exit-int]` `ipv6 route ::/0 [exit-int]`
`ip route 0.0.0.0 0.0.0.0 [next-hop] [AD]` `ipv6 route ::/0 [next-hop] [AD]`

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New Show Commands

Short Command	What It Displays
`sh run int g0/0`	running config for specified interface
`sh run | [begin|include|exclude|section] line vty`	filtered running-config output
`sh history`	contents of history buffer (previously entered commands)
`sh ip protocols`	dynamic routing protocol settings

Refresher Commands: General

Short Command	Complete Command	Mode
`no ip dom lo`	`no ip domain-lookup`	global
`login blo 120 a 3 w 60`	`login block-for 120 attempts 3 within 60`	global
`security pass min 8`	`security password min-length 8`	global
`exec-timeout 10`	`exec-timeout 10`	line

Refresher Commands: Enabling SSH

Short Command	Complete Command	Mode
`ip dom n CCNA-lab.com`	`ip domain-name CCNA-labs.com`	global
`cry key gen rsa gen mod 1024`	`crypto key generate rsa general-keys modulus 1024`	global
`user Bob sec cisco`	`username Bob secret cisco`	global
`login lo`	`login local`	line
`trans in ssh`	`transport input ssh`	line
`ip ssh v 2`	`ip ssh version 2`	global

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