

General Configurations

Command	Mode	Function
<code>terminal history size 200</code>	priv. EXEC	changes how many commands the history buffer stores (<i>for this session only</i>)

Dynamic Routing Protocol Configuration

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

DHCP Configuration

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

NAT Configuration

Short Command	Full Command
<code>ip nat pool name [first IP] [last IP] net [subnet mask]</code>	<code>ip nat pool name [first IP] [last IP] netmask [subnet mask]</code>
<code>ip nat inside source list pool name overload</code>	<code>ip nat inside source list [acl#] pool name overload</code>
<code>ip nat in</code>	<code>ip nat inside</code>
<code>ip nat out</code>	<code>ip nat outside</code>
<code>ip nat inside source static 192.168.1.10 209.165.200.18</code>	<code>ip nat inside source static [private IP] [global IP]</code>
---- Show Commands ----	
<code>sh ip nat s</code>	<code>show ip nat statistics</code>
<code>sh ip nat t</code>	<code>show ip nat translations</code>

Trunking & Subinterfaces

Command	Mode
<code>encapsulation dot1q</code>	

Routing Table

Command	Mode	Function
<code>interface loopback 0</code>	global	loopback address configuration



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Published 4th February, 2018.
Last updated 8th April, 2018.
Page 1 of 2.

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Routing Table (cont)

```
ip route [network] [subnet] [exit-int|next-hop] global
ipv6 route [network/prefix] [exit-int|next-hop]

ip route 0.0.0.0 0.0.0.0 [exit-int] global
ipv6 route ::/0 [exit-int]
```

```
ip route 0.0.0.0 0.0.0.0 [next-hop] [AD] global
ipv6 route ::/0 [next-hop] [AD]
```

Refresher Commands: Enabling SSH

Short Command	Complete Command
<code>ip domain-name CCNA-lab.com</code>	<code>ip domain-name CCNA-lab.com</code>
<code>crypto key generate rsa modulus 1024</code>	<code>crypto key generate rsa modulus 1024</code>
<code>username Bob secret cisco</code>	<code>username Bob secret cisco</code>
<code>login local</code>	<code>login local</code>
<code>transport input ssh</code>	<code>transport input ssh</code>
<code>ip ssh version 2</code>	<code>ip ssh version 2</code>

New Show Commands

Short Command

What It Displays

<code>sh run int g0/0</code>	running config for specified interface
<code>sh run [begin include exclude section] line vty</code>	filtered running-config output
<code>sh history</code>	contents of history buffer (previously entered commands)
<code>sh ip protocols</code>	dynamic routing protocol settings

Refresher Commands: General

Short Command	Complete Command	Mode
<code>no ip domain-lookup</code>	<code>no ip domain-lookup</code>	global
<code>login block-for 120 attempts 3 within 60</code>	<code>login block-for 120 attempts 3 within 60</code>	global
<code>security password min-length 8</code>	<code>security password min-length 8</code>	global
<code>exec-timeout 10</code>	<code>exec-timeout 10</code>	line

