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CCNA Router Commands for the 640–607 exam (version 1.0)

Basics

Enter Privileged Exec Mode	**enable**
Leave Privileged Exec Mode and go back to User Mode	**disable**
Log out of the router, end the console session,same as exit command	**exit**
Log out of the router, end the console session, same as logout command	**logout**
Setup a basic configuration by answering questions	**setup**
Show the current configuration stored in RAM	**show running–config**
Show the startup configuration stored in NVRAM	**show startup-config**
Display IOS version (configuration register value is also displayed)	**show version**
Show IOS files stored in flash and available free space	**show flash**
Save the current configuration into NVRAM	**copy running–config startup–config**
Use the startup configuration stored in NVRAM	**copy startup–config running–config**
Load a saved configuration from a TFTP server into NVRAM	**copy tftp running–config**
Upgrade the IOS stored in flash from an image stored on a TFTP server	**copy tftp flash**
Create a backup of router IOS and store it in a file on a TFTP server	**copy flash tftp**
Instruct the router to boot from a specific IOS image stored in flash	**boot system flash [filename]**
Instruct the router to boot from a specific IOS image stored on a TFTP server	**boot system tftp [filename]**
Enter Global Configuration Mode	**config terminal**
Set a Message–of–the–day banner to be displayed before the user logs in to the router	**banner motd # message #**
Set a login message to be displayed before the user logs in to the router	**banner login # message #**
Set a banner to be displayed after the user logs in to the router	**banner exec # message #**
(incoming is displayed with a reverse telnet connection, exec with all others)	**banner incoming # message #**
Give the router a hostname (default is router)	**hostname [name]**
Disable DNS lookups (enabled by default)	**no ip domain–lookup**
Specify DNS servers for for hostname and address resolution	**ip name–server server–ip1 [server–ip2...server–ip6]**
Disable the HTTP server (enabled by default)	**no ip http server**
Change the size of the history buffer (default is 10 commands)	**terminal history size 20**

Passwords

Set a password for Privileged Exec Mode	**enable password [password]**
Set an encrypted password for Privileged Exec Mode	**enable secret [password]**
Set password TELNET access	**line vty 0 4** **login** **password [passwords]**

Set a password for Console Port access	**line console 0** **login** **password [passwords]**

Interface configuration

Configure the interface Ethernet 0	**interface e 0**
Configure the first Serial interface	**interface s 0**
Configure the second Token Ring interface	**interface t 1**
Enable an interface	**no shutdown**
Disable an interface	**shutdown**
Set the clock rate on a DCE (make a router a DCE)	**clock rate 56000**
Set the bandwidth	**bandwidth 64**
Display the status of an interface	**show interface serial 1**
Display DTE/DCE state	**show controller serial 1**
Set keepalive period	**keepalive 10**

IP

Disable IP routing (IP routing is enabled by default)	**no ip routing**
Display IP routing table	**show ip route**
Configure an interface with an IP address	**ip address 192.168.1.12 255.255.255.0**

Enable RIP	**router rip**
	    network [network–address1]
	    network [network–address2…]

Enable Split Horizon on an interface	**ip split–horizon**
Enable RIP Triggered updates (only send updates when routing table has changed instead of every 30 seconds)	**ip rip triggered**
Disable automatic route summarization	**no auto–summary**

Enable IGRP	**router igrp [as–number]**
	    network [network–address1]
	    network [network–address2…]

PPP

Enable PPP on an interface	**encapsulation ppp**
Set PPP authentication method to PAP	**ppp authentication PAP**
Set PPP authentication method to CHAP	**ppp authentication CHAP**
Set PPP authentication method to first try PAP and then CHAP	**ppp authentication PAP CHAP**
Set PPP authentication method to first try CHAP and then PAP	**ppp authentication CHAP PAP**
Configure CHAP username to use to connect (default is hostname)	**ppp chap hostname [username]**
Configure CHAP password to use to connect (default is enable password)	**ppp chap password [password]**
Configure PAP username to use to connect (default is hostname)	**ppp pap sent–username [username] [password]**

Create a username to use for connecting routers to log in	**username [username] password [password]**
Enable PPP compression on an interface	**ppp compress [predictor	stac]**
Enable Multilink PPP on an interface	**ppp multilink**
Display information about the multilink bundle	**show ppp multilink**

Frame Relay

Enable Frame−Relay on an interface and set the encapsulation type (use ietf when not all the routers are Cisco)	**encapsulation frame−relay [cisco	ietf]**
Manually specify the LMI type (auto−detected on IOS 11.2+ routers)	**frame−relay lmi type [ansi	cisco	q9331]**
Set the bandwidth for the frame relay interface (in kilobits)	**bandwidth 64**
Manually specify the address to DLCI mappings (when Inverse Arp is unavailable) example: frame−relay map ip 10.10.10.10 100 broadcast	**frame−relay map protocol protocol−address dlci [broadcast] [ietf	cisco]**
Manually specify DLCI (when LMI is not available)	**frame−relay local−dlci [number]**
Display traffic statistics about permanent virtual circuits (PVCs)	**show frame relay pvc**
Display statistics about Local Management Interface (LMI)	**show frame relay lmi**
Display the current static and dynamic map entries	**show frame relay map**

ISDN

Set the ISDN switch type	**isdn switch−type**
Configure interface BRI 1	**interface bri 1**
Specify the SPID number for the B1 channel	**isdn spid1 spid−number**
Specify the SPID number for the B2 channel	**isdn spid2 spid−number**
Display information about the D Channel B channels of ISDN BRI interface 0	**show interfaces bri 0**
Display information about the ISDN BRI interface 0	**show controllers bri 0**

CDP

Display directly connected neighbors	**show cdp neighbor**
Display detailed information about directly connected neighbors	**show cdp neighbor detail**
Disable CDP for the whole router	**no cdp run**
Disable CDP for a particular interface	**no cdp enable**
Set the period between sending CDP information (in seconds)	**cdp timer 90**
Specify the amount of time the receiving device should hold a packet (in seconds)	**cdp holdtime 180**
Clear the information about neighbors in the CDP table	**clear cdp table**

Access Control Lists

IP Standard Access Lists (Range 1 to 99)

Objective: Configure interface ethernet 0 to deny inbound packets originated from subnet 192.168.1.0 255.255.255.0

1. Deny the subnet	**access–list 1 deny 192.168.1.0 0.0.0.255**
2. Permit all others (because of the implicit **deny all** in Step 1.)	**access–list 1 permit any**
3. Bind the access list to the interface ethernet 0	**interface ethernet 0** **ip access group 1 in**

IP Extended Access Lists (Range 100 to 199)

Objective: Configure interface ethernet 0 to deny subnet 192.168.1.0 from surfing the web

1. Deny the subnet	**access–list 100 deny tcp 192.168.1.0 0.0.0.255 any eq 80**
2. Permit all others	**access–list 100 permit ip any any**
3. Bind the access list to the interface ethernet 0	**interface ethernet 0** **ip access group 100 out**

Objective: Configure interface serial 1 to deny host 192.168.1.222 from telnetting to any host on the subnet 172.16.8.1 255.255.0.0

1. Deny the subnet	**access–list 101 deny tcp host 192.168.1.222 172.16.8.1 0.0.255.255 eq 23**
2. Permit all others	**access–list 101 permit ip any any**
3. Bind the access list to the interface serial 1	**interface serial 1** **ip access group 101 out**

Key Sequences

Recall the previous command from the history buffer	**CTRL–P or Up arrow key**
Recall the next command in the history buffer	**CTRL–N or Down arrow key**
Auto–complete commands	**TAB**
End configuration mode	**CTRL–Z**
Move the cursor back one character.	**Ctrl–B or Left Arrow key**
Move the cursor forward one character.	**Ctrl–F or Right Arrow key**
Move the cursor to the start of the command line.	**Ctrl–A**
Move the cursor to the end of the command line.	**Ctrl–E**

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