

CCNA 1 Chapter 6 v5.0 Exam Answers 2013

1

After troubleshooting a router, the network administrator wants to save the router configuration so that it will be used automatically the next time that the router reboots. What command should be issued?

copy startup-config flash

copy running-config flash

reload

copy startup-config running-config

copy running-config startup-config*

2

Which IPv4 header field is responsible for defining the priority of the packet?

traffic class

flow label

flags

differentiated services*

3

When connectionless protocols are implemented at the lower layers of the OSI model, what are usually used to acknowledge the data receipt and request the retransmission of missing data?

Transport layer UDP protocols

upper-layer connection-oriented protocols*

connectionless acknowledgements

Network layer IP protocols

4

Why is NAT not needed in IPv6?

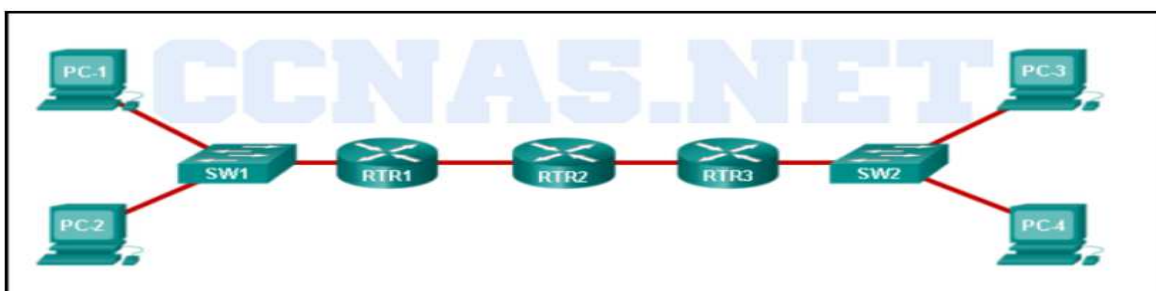
Any host or user can get a public IPv6 network address because the number of available IPv6 addresses is extremely large.*

The end-to-end connectivity problems that are caused by NAT are solved because the number of routes increases with the number of nodes that are connected to the Internet.

Because IPv6 has integrated security, there is no need to hide the IPv6 addresses of internal networks.

The problems that are induced by NAT applications are solved because the IPv6 header improves packet handling by intermediate routers.

5



Refer to the exhibit. Fill in the blank.

A packet leaving PC-1 has to traverse **“three”** hops to reach PC-4.

6

Which two interfaces will allow access via the VTY lines to configure the router? (Choose two.)

- console interfaces
- USB interfaces
- WAN interfaces***
- LAN interfaces***
- aux interfaces

7

A technician is manually configuring a computer with the necessary IP parameters to communicate over the corporate network. The computer already has an IP address, a subnet mask, and a DNS server. What else has to be configured for Internet access?

- the default gateway address***
- the MAC address
- the domain name of the organization
- the WINS server address

8

Which three commands are used to set up a password for a person who attaches a cable to a new router so that an initial configuration can be performed? (Choose three.)

- password cisco ***
- line vty 0 4
- line console 0 ***
- interface fastethernet 0/0
- enable secret cisco
- login ***

9

Match the configuration mode with the command that is available in that mode. (Not all options are used.)

R1(config-line)#	enable
R1#	copy running-config startup-config
R1(config-if)#	login
R1>	interface fastethernet 0/0
R1(config)#	

Match the configuration mode with the command that is available in that mode. (Not all options are used.)

	R1>
	R1#
R1(config-if)#	R1(config-line)#
	R1(config)#

10

<output omitted>

```

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

 10.0.0.0/24 is subnetted, 1 subnets
C    10.1.0.0 is directly connected, Serial0/0/0
 172.17.0.0/24 is subnetted, 4 subnets
O    172.17.6.0 [110/2] via 192.168.3.4, 00:10:41, FastEthernet0/0
O    172.17.10.0 [110/2] via 192.168.5.2, 00:09:52, FastEthernet1/1
O    172.17.12.0 [110/2] via 192.168.4.2, 00:12:23, FastEthernet1/0
C    172.17.14.0 is directly connected, FastEthernet0/1
C    192.168.3.0/24 is directly connected, FastEthernet0/0
C    192.168.4.0/24 is directly connected, FastEthernet1/0
C    192.168.5.0/24 is directly connected, FastEthernet1/1
S*   0.0.0.0/0 is directly connected, Serial0/0/0

```

Refer to the exhibit. Match the packets with their destination IP address to the exiting interfaces on the router. (Not all targets are used.)

packets with destination of 172.17.10.5

FastEthernet0/0

packets with destination of 172.17.12.10

FastEthernet0/1

packets with destination of 172.17.14.8

FastEthernet1/0

packets with destination of 172.17.8.20

FastEthernet1/1

packets with destination of 172.17.6.15

Serial0/0/0

The packet is dropped.

Refer to the exhibit. Match the packets with their destination IP address to the exiting interfaces on the router. (Not all targets are used.)

packets with destination of 172.17.6.15

packets with destination of 172.17.14.8

packets with destination of 172.17.12.10

packets with destination of 172.17.10.5

packets with destination of 172.17.8.20

The packet is dropped.

11

Which statement about router interfaces is true?

Commands that apply an IP address and subnet mask to an interface are entered in global configuration mode.

Once the no shutdown command is given, a router interface is active and operational.

Router LAN interfaces are not activated by default, but router WAN interfaces are.

A configured and activated router interface must be connected to another device in order to operate.*

12

A technician is configuring a router that is actively running on the network. Suddenly, power to the router is lost. If the technician has not saved the configuration, which two types of information will be lost? (Choose two.)

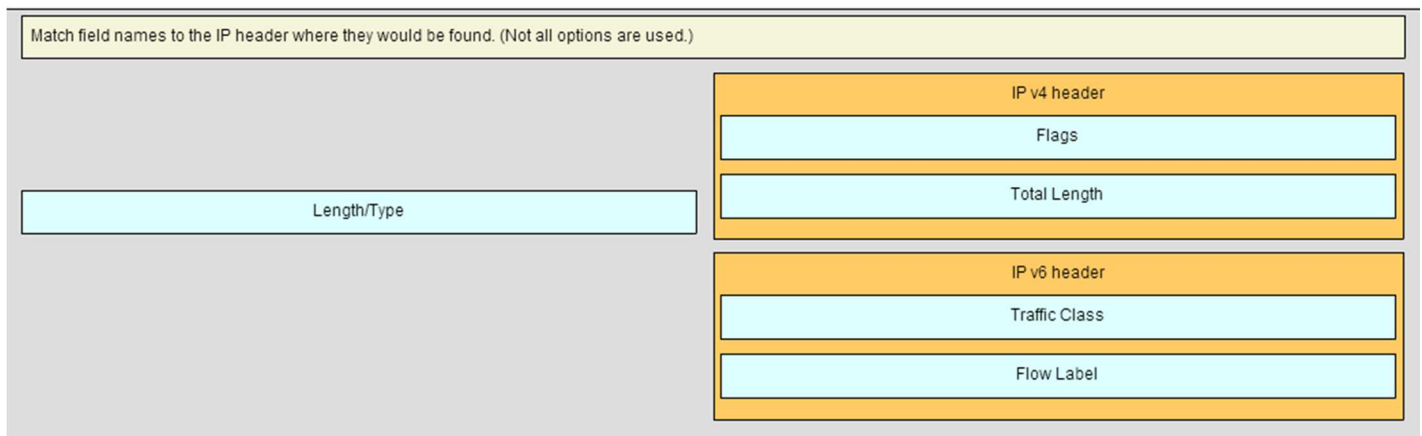
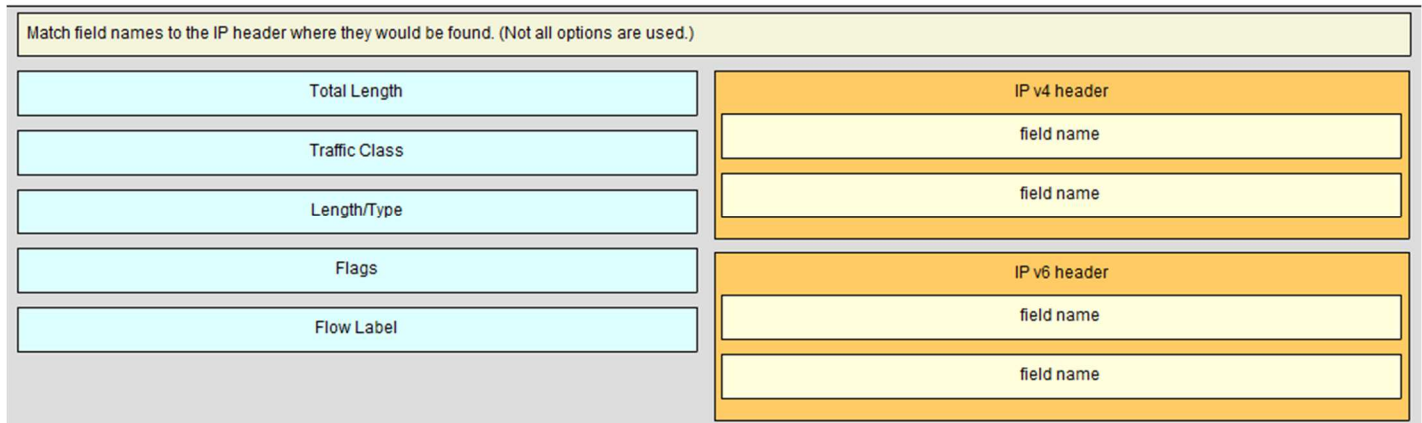
routing table*

ARP cache*

Cisco IOS image file

startup configuration
bootstrap file

13



14

How do hosts ensure that their packets are directed to the correct network destination?

They always direct their packets to the default gateway, which will be responsible for the packet delivery.

They send a query packet to the default gateway asking for the best route.

They search in their own local routing table for a route to the network destination address and pass this information to the default gateway.

They have to keep their own local routing table that contains a route to the loopback interface, a local network route, and a remote default route.*

15

What is a service provided by the Flow Label field of the IPv6 header?

It identifies the total length of the IPv6 packet.

It limits the lifetime of a packet.

It informs network devices to maintain the same path for real-time application packets.*

It classifies packets for traffic congestion control.

16

During the process of forwarding traffic, what will the router do immediately after matching the destination IP address to a network on a directly connected routing table entry?

look up the next-hop address for the packet

discard the traffic after consulting the route table

switch the packet to the directly connected interface*

analyze the destination IP address

17

Fill in the blank.

In a router, "ROM" is the nonvolatile memory where the diagnostic software, the bootup instructions, and a limited IOS are stored.

18

Which two commands can be used on a Windows host to display the routing table? (Choose two.)

netstat -s

route print*

netstat -r*

tracert

show ip route

19

A computer has to send a packet to a destination host in the same LAN. How will the packet be sent?

The packet will be sent directly to the destination host.*

The packet will be sent only to the default gateway.

The packet will be sent to the default gateway first, and then, depending on the response from the gateway, it may be sent to the destination host.

The packet will first be sent to the default gateway, and then from the default gateway it will be sent directly to the destination host.

20

Which command displays a summary chart of all router interfaces, their IP addresses, and their current operational status?

show interfaces

show version

show ip route

show ip interface brief *

21

Which two files, if found, are copied into RAM as a router with the default configuration register setting boots up? (Choose two.)

POST diagnostics

running configuration

startup configuration*

IOS image file*

22

Open the PT Activity. Perform the tasks in the activity instructions and then answer the question or complete the task.

The screenshot shows two windows from Cisco Packet Tracer. The left window is the 'Router1' CLI, displaying the following text:

```

agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found
at: http://www.cisco.com/ww1/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.
Cisco CISC01941/K9 (revision 1.0) with 491520K/32768K bytes of memory.
Processor board ID FTX15240Q6S
2 Gigabit Ethernet interfaces
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)

License Info:
License UDI:
-----
Device# PID SN
-----
*0 CISC01941/K9 FTX15240Q6S

Technology Package License Information for Module:'c1900'
-----
Technology Technology-package Technology-package
Current Type Next reboot

```

The right window is the 'Cisco Packet Tracer - Assessment' window, showing a task description:

PT Activity: 00:05:57

A network administrator needs to upgrade the IOS of a Cisco 1941 router. The new IOS version requires a minimum of 512 MB of RAM and 128 MB of flash memory. Does the router have enough RAM and flash memory to support the new IOS?

Return to the assessment to answer the question or complete the task.

Time Elapsed: 00:05:57

Buttons: Top, Check Results, Reset Activity, <, 1/1, >

At the bottom, the 'Routers' list shows:

Router	Model	IOS
1941	1941	28200M
2811	2811	28210M
2901	2901	29010M

Does the router have enough RAM and flash memory to support the new IOS?

The router needs more RAM and more flash memory for the IOS upgrade.

The router has enough RAM, but needs more flash memory for the IOS upgrade.

The router has enough RAM and flash memory for the IOS upgrade.*

The router has enough flash memory, but needs more RAM for the IOS upgrade.

23

When would the Cisco IOS image held in ROM be used to boot the router?

when the running configuration directs the router to do this

during a normal boot process

when the full IOS cannot be found*

during a file transfer operation