4/28/2020 TestOut LabSim

Exam Report: 12.4.4 Practice Questions		
Date: 4/28/2020 11:01:04 Time Spent: 0:45	8 am	Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performance	1	
Your Score: 43%		
		Passing Score: 80%
View results by: O	pjective Analysis   Individu	ual Responses
Individual Responses	5	
<b>▼</b> Question 1:	<u>Correct</u>	
Which routing comp	onent is used to forward packet	s to remote networks?
Default gat	eway	
O IP address		
Host name		
Subnet mas	sk	
Explanation		
The default gateway	identifies the router to which p	ackets for remote networks are sent.
		address is the network address. The IP address addresses. The host name identifies the logical name
References		
Linux Pro - 12.4 Rou [e_route_lp5.exam.x	nting Configuration ml Q_IP_ROUTE_LP5_01]	
<b>▼</b> Question 2:	<u>Correct</u>	
	ne default gateway on your netw must remove it from the routing	work. The gateway had used the IP address of g table.
Which command wo	ould you use to accomplish this	task?
oroute remo	ove 201.12.3.4	
route del d	lefault gw 201.12.3.4	
del route g	gw 201.12.3.4	
remove ro	ute 201.12.3.4	
Explanation		

Use the **route** utility to add and remove entries. Use the **del** parameter to remove a route. The syntax for removing a default gateway with the IP address given is route del default gw 201.12.3.4.

# References

Linux Pro - 12.4 Routing Configuration [e\_route\_lp5.exam.xml Q\_IP\_ROUTE\_LP5\_02]

**Incorrect** 

**▼** Question 3:

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After the acquisition of another company, you are in a position where you must add another network to the existing routing tables.

Which of the following commands would you use to accomplish this task? (Select TWO. Each option is a complete solution.)

	ip route add net 11.12.13.14/24 via 201.12.3.
<b>→</b>	ip route add 11.12.13.14/24 via 201.12.3.4
	route add host 11.12.13.14 gw 201.12.3.4
	route -p add 11.12.13.14 201.12.3.4
<b>→</b>	route add -net 11.12.13.14/24 gw 201.12.3.4
	add route 11.12.13.14/24 gw 201.12.3.4
	ip route 11.12.13.14/24 201.12.3.4

# **Explanation**

The first option is to use the **route add** command to add a route to the routing table. To add an entire network (versus just a host), use the -net option followed by the network address and gateway using route add -net 11.12.13.14/24 gw 201.12.3.4.

The second option is to use the **ip route add** command to a route to the routing table. First, indicate the network address. Then use via to indicate the IP address of the router to which packets addressed to the remote route should be sent as follows: ip route add 11.12.13.14/24 via 201.12.3.4

## References

Linux Pro - 12.4 Routing Configuration [e\_route\_lp5.exam.xml Q\_IP\_ROUTE\_LP5\_03]

**▼** Question 4: **Incorrect** 

As a system administrator, you need to add a static route so that you can reach host 195.156.76.122, 255.255.255.0 and the device eno32 to find the target network.

Which commands will accomplish this task? (Select TWO. Each option is a complete solution).

	ip route add 195.156.76.0/16 dev eno32
	ip route add 195.156.76.0 netmask 255.255.255.0 dev eno32
<b>→</b>	route add -net 195.156.76.0 netmask 255.255.255.0 dev eno32
	route add 195.156.76.122 netmask 255.255.255.0
<b>⇒</b>	ip route add 195.156.76.0/24 dev eno32
	route 195.156.76.0 netmask 255.255.255.0 dev eno32

# **Explanation**

One correct answer is route add -net 195.156.76.0 netmask 255.255.255.0 dev eth0. The route add **net** indicates that you are adding a route and the target is a network. **195.156.76.0 netmask 255.255.255.0** indicates that you are routing network 195.156.76.0 with a subnet mask of 255.255.255.0, which indicates the first three octets are the network address. Remember, you route networks, not hosts. **dev eno32** indicates that the eno32 device is being used to find the target network.

The other correct answer is **ip route add 195.156.76.0/24 dev eno32**. **ip route add 195.156.76.0/24** indicates that you are adding the 195.156.76.0/24 network with the 24-bit subnet mask (which is the 4/28/2020 TestOut LabSim

same as the 255.255.25.0 subnet mask, but you must use CIDR notation with the ip command and any of its options). **dev eno32** indicates that the eno32 device is being used to find the target network.

### References

Linux Pro - 12.4 Routing Configuration [e\_route\_lp5.exam.xml Q\_IP\_ROUTE\_LP5\_04]

Question 5:

**Incorrect** 

As a system administrator, you are going to add a static route for host 195.157.66.221, 255.255.255.0. Your default gateway is 192.168.5.1, but you want this route to use gateway 192.168.7.1.

Which commands will accomplish this task? (Select TWO. Each option is a complete solution.)

	route add -net 195.157.66.0 netmask 255.255.255.0
	ip route add 195.157.66.0/8 via 192.168.7.1
	ip route add 195.157.66.0 netmask 255.255.255.0 via 192.168.7.1
	route add net 195.157.66.0 netmask 255.255.255.0 gw 192.168.5.1
<b>→</b>	ip route add 195.157.66.0/24 via 192.168.7.1
	route 195.157.66.0 netmask 255.255.255.0 gw 192.168.7.1
_	route add -net 195.157.66.0 netmask 255.255.255.0 gw 192.168.7.1

# **Explanation**

One option is to use route add -net 195.157.66.0 netmask 255.255.255.0 gw 192.168.7.1. route add net indicates that you are adding a route and the target is a network. 195.156.66.0 netmask 255.255.255.0 indicates that you are routing network 195.156.66.0 with a subnet mask of 255.255.255.0, which indicates that the first three octets are the network address. gw 192.168.7.1 indicates that you are using the gateway (gw) 192.168.7.1 to find the target network.

The second option is to use ip route add 195.157.66.0/24 via 192.168.7.1. ip route add 195.157.66.0/24 indicates that you are adding the 195.156.76.0/24 network with the 24-bit subnet mask (which is the same as the 255.255.255.0 subnet mask, but you must use CIDR notation with the **ip** command and any of its options) to the route table. Including via 192.168.7.1 indicates that you are using 192.168.7.1 to find the target network.

#### References

Linux Pro - 12.4 Routing Configuration [e\_route\_lp5.exam.xml Q\_IP\_ROUTE\_LP5\_05]

Question 6:

**Incorrect** 

As a system administrator, you want to block (reject) any packets from 170.122.0.0, 255.255.0.0.

Which command will block those packets?

route add 170.12	2.0.0 netmask 255.255.0.0 reject
oroute block 170.1	.22.0.0 netmask 255.255.0.0
oroute add 170.12	2.0.0 netmask 255.255.0.0 block
route add block	170.122.0.0 netmask 255.255.0.0

# **Explanation**

route add indicates that you are adding a route. 170.122.0.0 netmask 255.255.0.0 indicates the network and subnet mask that is being added. reject is the option used to reject any packets from hosts on this network.

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Linux Pro - 12.4 Routing [e_route_lp5.exam.xml C	
Question 7:	Correct
Which of the following u complete solution.)	utilities would you use to view the routing table? (Select TWO. Each option is a
mtr	
traceroute	
ip route show	
tracert	
route	
dig	

# **Explanation**

Use the **route** or **ip route show** commands to display the contents of the routing table.

traceroute or tracert uses ICMP packets to test connectivity between devices and shows the path between the two devices. Responses from each hop on the route are measured three times to provide an accurate representation of how long the packet takes to reach and be returned by that host. The mtr command on Linux is a combination of the ping and traceroute commands.

The **dig** command resolves (looks up) the IP address of a host name.

# References

Linux Pro - 12.4 Routing Configuration [e\_route\_lp5.exam.xml Q\_IP\_ROUTE\_LP5\_07]