Question 1

Which of the following is a valid IPv6 address?

Options:

A- 2001:db8:3241::1

B- 2001::db8:4581::1

C- 2001:db8:0g41::1

D- 2001%db8%9990%%1

E- 2001.db8.819f..1

Answer:

A

Question 2

Given the following routing table:

```
Kernel IP routing table
Destination       Gateway           Genmask            Flags Metric Ref    Use Iface
0.0.0.0           192.168.178.1     0.0.0.0            UG     0      0        0 wlan0
192.168.1.0       0.0.0.0           255.255.255.0     U      0      0        0 eth0
192.168.2.0       192.168.1.1       255.255.255.0     U      0      0        0 eth0
192.168.178.0     0.0.0.0           255.255.255.0     U      9      0        0 wlan0
```

How would an outgoing packet to the destination 192.168.2.150 be handled?

Options:

A- It would be passed to the default router 192.168.178.1 on wlan0.

B- It would be directly transmitted on the device eth0.

C- It would be passed to the default router 255.255.255.0 on eth0.

D- It would be directly transmitted on the device wlan0.

E- It would be passed to the router 192.168.1.1 on eth0.

Answer:

E

Question 3

Which of the following programs can be used to determine the routing path to a given destination?

Options:

A- dig

B- netstat

C- ping

D- route

E- traceroute

Answer:

E

Question 4

What of the following can be done by the command ifconfig? (Choose TWO correct answers.)

Options:

A- Set a network interface active or inactive.

B- Specify the kernel module to be used with a network interface.

C- Allow regular users to change the network configuration of a network interface.

D- Change the netmask used on a network interface.

E- Specify which network services are available on a network interface.

Answer:

A, D

Question 5

Question Type: MultipleChoice

Which of the following tools used for DNS debugging, reports not only the response from the name server but also details about the query?

Options:

A- dnsq

B- dig

C- hostname

D- dnslookup

E- zoneinfo

Answer:

B

Question 6

Question Type: MultipleChoice

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Choose THREE correct answers.)

Options:

A- 127.0.0.0/8

B- 10.0.0.0/8

C- 169.255.0.0/16

D- 172.16.0.0/12

E- 192.168.0.0/16

Answer:

B, D, E

Question 7

Question Type: FillInTheBlank

Which port is the default server port for the HTTPS protocol? (Specify the port number using digits.)

Answer:

Question 8

Question Type: FillInTheBlank

Which command, depending on its options, can display the open network connections, the routing tables, as well as network interface statistics. (Specify ONLY the command without any path or parameters.)

Answer:

Question 9

Question Type: MultipleChoice

Which of the following statements is valid in the file /etc/nsswitch.conf?

Options:

A- multi on

B- 192.168.168.4 dns-server

C- hosts: files dns

D- include /etc/nsswitch.d/

Answer:

C

Question 10

Question Type: **FillInTheBlank**

What is the lowest numbered unprivileged TCP port? (Specify the number in digits only.)

Answer:

Question 11

Question Type: **FillInTheBlank**

How many IP-addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/28? (Specify the number only without any additional information.)

Answer:

Question 12

Question Type: **MultipleChoice**

What is true regarding TCP port 23?

Options:

A- Port 23 is the well known port for the telnet service which is a plain text protocol that should no longer be used.

B- Port 23 is the well known port for the SSH service which provides secure logins.

C- Port 23 is the well known port for the rlogin service which is SSL secured by default.

D- Port 23 is the well known port for the system login services which are encrypted when the user runs the starttls command in his login shell.

Answer:

A