

1. The following is an excerpt from the output of `tcpdump -nli eth1 'udp'`:

```
13:03:17.277327 IP 192.168.123.5.1065 > 192.168.5.112.53: 43653+ A? lpi.org. (25)
```

```
13:03:17.598624 IP 192.168.5.112.53 > 192.168.123.5.1065: 43653 1/0/0 A 24.215.7.109 (41)
```

Which network service or protocol was used?

- A. FTP
- B. HTTP
- C. SSH
- D. DNS
- E. DHCP

Answer: D

2. A DNS server has the IP address 192.168.0.1. Which TWO of the following need to be done on a client machine to use this DNS server?

- A. Add `nameserver 192.168.0.1` to `/etc/resolv.conf`.
- B. Run `route add nameserver 192.168.0.1`.
- C. Run `ifconfig eth0 nameserver 192.168.0.1`.
- D. Run `echo "nameserver 192.168.1.1" >> /etc/resolv.conf`.
- E. Run `bind add nameserver 192.168.1.1`.

Answer: AD

3. What command would be used to configure the interface `eth1:1` with the IP address 10.10.3.4 and the netmask 255.255.255.0?

- A. `ifconfig eth1:1 10.10.3.4 netmask 255.255.255.0 start`
- B. `ifconfig 10.10.3.4 netmask 255.255.255.0 eth1:1 up`
- C. `ifconfig eth1:1 10.10.3.4 netmask 255.255.255.0 up`
- D. `ifconfig 10.10.3.4/255.255.255.0 eth1:1 up`
- E. `ifconfig eth1:1 10.10.3.4/255.255.255.0 up`

Answer: C

4. Which option must be used with `ifconfig`, to also see interfaces that are down?

- A. `-d`
- B. `-a`

C. `-all`

D. `-down`

E. None.

Answer: B

5. Which TWO of the following commands could be used to add a second IP address to `eth0`?

- A. `ifconfig eth0 -add-ip 192.168.123.10`
- B. `ifconfig eth0:1 192.168.123.10`
- C. `ifconfig eth0-1 192.168.123.10`
- D. `ifconfig eth0 +192.168.123.10`
- E. `ifconfig eth0:sub1 192.168.123.10`

Answer: BE

6. Which of the following sentences is TRUE about FreeS/WAN?

- A. FreeS/WAN doesn't support remote users (i.e. notebook users with dynamic IP addresses) connecting to the LAN.
- B. FreeS/WAN needs a patch to support NAT traversal for users behind a NAT gateway.
- C. FreeS/WAN doesn't require any Linux kernel 2.4 modules to work properly.
- D. FreeS/WAN only enables the use of strong encryption between Linux hosts.
- E. FreeS/WAN can't be used to establish a VPN between a Linux host and a Microsoft Windows 2000 Server host.

Answer: B

7. Considering the following kernel IP routing table below, which of the following commands must be used to remove the route to the network 10.10.1.0/24?

Kernel IP routing table

```
Destination Gateway Genmask Flags Metric Ref Use Iface
200.207.199.162 0.0.0.0 255.255.255.255 UH 0 0 0 ppp0
172.16.87.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0
192.168.246.0 0.0.0.0 255.255.255.0 U 0 0 0 eth1
10.10.1.0 192.168.246.11 255.255.255.0 UG 0 0 0 eth1
127.0.0.0 0.0.0.0 255.0.0.0 U 0 0 0 lo
0.0.0.0 200.207.199.162 0.0.0.0 UG 0 0 0 ppp0
```

- A. route del 10.10.1.0
- B. route del 10.10.1.0/24
- C. route del -net 10.10.1.0/24
- D. route del 10.10.1.0/24 gw 192.168.246.11
- E. route del -net 10.10.1.0

Answer: C

8. What is the command to add another IP address to an interface that already has (at least) one IP address?

- A. ifconfig eth0:1 192.168.1.2
- B. ifconfig eth0 192.168.1.2
- C. ipconfig eth0:1 192.168.1.2
- D. ipconfig eth0 192.168.1.2

Answer: A

9. Which of the following tools, on its own, can provide dial-in access to a server?

- A. mingetty
- B. pppd
- C. dip
- D. chat
- E. mgetty

Answer: E

10. Which option is used to configure pppd to use up to two DNS server addresses provided by the remote server?

- A. ms-dns
- B. nameserver
- C. usepeerdns
- D. dns
- E. None of the above.

Answer: C

11. If the command `arp -f` is run, which file will be read by default?

- A. `/etc/hosts`
- B. `/etc/ethers`

- C. `/etc/arp.conf`
- D. `/etc/networks`
- E. `/var/cache/arp`

Answer: B

12. What command must be used to print the kernel's routing table?

- A. `route print`
- B. `route enumerate`
- C. `route show`
- D. `route list`
- E. `route`

Answer: E

13. In a PAM configuration file, which of the following is true about the required control flag?

- A. If the module returns success, no more modules of the same type will be invoked.
- B. The success of the module is needed for the module-type facility to succeed. If it returns a failure, control is returned to the calling application.
- C. The success of the module is needed for the module-type facility to succeed. However, all remaining modules of the same type will be invoked.
- D. The module is not critical and whether it returns success or failure is not important.
- E. If the module returns failure, no more modules of the same type will be invoked.

Answer: C

14. To configure an LDAP service in the company "Linuxfoo Ltd", which of the following entries should be added to

`slapd.conf`, in the Database Directives section, to set the `rootdn` so that the common name is Manager and the company's domain is `linuxfoo.com`?

- A. `rootdn cn=Manager dc=linuxfoo dc=com`
- B. `rootdn "cn=Manager,dc=linuxfoo,dc=com"`
- C. `rootdn cn=linuxfoo,dc=com,dc=Manager`
- D. `rootdn "cn=linuxfoo,dc=com,dc=Manager"`
- E. `rootdn "cn=Manager dc=linuxfoo dc=com"`

Answer: B

15. LDAP-based authentication against a newly-installed LDAP server does not work as expected. The file

/etc/pam.d/login includes the following configuration parameters. Which of them is NOT correct?

- A. password required /lib/security/pam_ldap.so
- B. auth sufficient /lib/security/pam_ldap.so use_first_pass
- C. account sufficient /lib/security/pam_ldap.so
- D. password required /lib/security/pam_pwdb.so
- E. auth required /lib/security/pam_ldap.so

Answer: E