Quiz 1: System Software – Day 1

DNS – NTP – DHCP – FTP Server

**1.** Given the following files, would the host norbert be allowed to connect to the FTP server?

hosts.deny: in.ftpd : ALL

hosts.allow: in.ftpd : norbert

A. Yes

B. No

A. While the hosts.deny rule blocks everyone, the hosts.allow rule overrides it.

**2.** What should be done to ensure a client machine uses the recursive nameserver running on the IP address 192.168.1.1 ? (Choose TWO correct answers.)

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. Ensure that the dns service is listed in the hosts entry in the /etc/nsswitch.conf file.

E. Run bind add nameserver 192.168.0.1.

Answer: AD

**3.** The following is an excerpt from the output of tcpdump -nli eth1:

13:03:17.277327 IP 192.168.123.5.1065 > 192.168.5.112.21: Flags [.], ack 1 (truncated)

13:03:17.598624 IP 192.168.5.112.21 > 192.168.123.5.1065: Flags [P.], seq (truncated)

Which network service or protocol was used?

A. FTP

B. HTTP

C. SSH

D. DNS

E. DHCP

Answer: A

**4.** Which of the following commands can be used to script interactions with various TCP or UDP services?

A. ftp

B. nc

C. tcpdump

D. strings

E. wget

Answer: B

**5.** Which of the following files are used to resolve hostnames to IP addresses? (Choose TWO correct answers.)

A. /etc/systems

B. /etc/hosts

C. /etc/network

D. /etc/dns.conf

E. /etc/resolv.conf

Answer: BE

**6.** The users of the local network complain that name resolution is not fast enough. Enter the command, without the path or any options, that shows the time taken to resolve a DNS query.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

dig, time dig, time host, time nslookup

**7.** Which of the following commands can be used to list IPv4 addresses and MAC addresses for IP devices that the system has seen on the local network?

A. arp

B. ifconfig

C. ipadm

D. iwlist

Answer: A

**8.**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 198.51.100.42 (41)

Which network service or protocol was used?

A. FTP

B. HTTP

C. SSH

D. DNS

E. DHCP

Answer: D

**9.** What is incorrect about these entries in /etc/hosts which could be causing host name lookup problems with host2?

host1 192.168.1.12

host2 192.168.1.12

A. Two host names are using the same IP address.

B. The server doing the query is on a different subnet.

C. The fields are out of order.

D. host2 is not a fully qualified domain name.

Answer: C

**10.** What are the main network services used by the PXE protocol? (Choose TWO correct answers.)

A. DNS

B. DHCP

C. HTTP

D. TFTP

E. NFS

Answer: BD