



117-102

LPI 102 General Linux, Part 2

Version 2.0

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Note 2:

Section A has 160 questions

Section B has 108 questions.

The total number of questions is 268.

Section A

QUESTION NO: 1

On a default Linux system, what file system type does the dump command act upon?

- A. Ext2
- B. UFS
- C. JFS
- D. XFS
- E. ReiserFS

Answer: A

QUESTION NO: 2

Your machine has two working NIC's with proper addresses. You want to split your network into two new subnets. What single command will accomplish this?

- A. ifconfig
- B. route
- C. default
- D. netstat
- E. None of the choices

Answer: A

QUESTION NO: 3

Which file system should never be backed up, and therefore never have to be restored?

- A. ufs
- B. usr
- C. tmp
- D. home
- E. swap

Answer: E

QUESTION NO: 4

Which directory tree are you the least likely to backup or restore?

- A. /tmp
- B. /var
- C. /proc
- D. /usr
- E. /usr

Answer: C

QUESTION NO: 5

What command will verify the syntax of a hosts.allow and hosts.deny file combination?

- A. tcpdchk
- B. verify --tcp
- C. ipswitch
- D. tcpdump
- E. tcpdmatch

Answer: A

QUESTION NO: 6

How can you enable onscreen (non-printing) numbers in a vi session?

- A. :set num
- B. :se nu
- C. :set -o number

- D. :set +o num
- E. None of the choices

Answer: B

QUESTION NO: 7

When starting vi with the file nohup.out, which of the following will enable onscreen numbers?

- A. vi +/set num nohup.out
- B. vi +"se nu" nohup.out
- C. vi /+"set number" nohup.out
- D. vi +":set num" nohup.out
- E. echo "set numb" | vi nohup.out

Answer: B

QUESTION NO: 8

What command will set a regular users password to force changing it every 60 days? Choose all that apply.

- A. passwd -x 60 user1
- B. chage -M 60 user1
- C. passwd +x 60 user1
- D. useradd -e 60 user1
- E. usermod -f 60 user1

Answer: A, B

QUESTION NO: 9

Which of the following commands will flush all print jobs on all configured queues of the system?

- A. lprm -a all
- B. lprm -all
- C. lprm -a *
- D. lpflush -all

Answer: A

QUESTION NO: 10

Your /etc/passwd file appears to have approximately 1/2 shadow passwords and 1/2 standard unix encrypted passwords. What utility would you most likely run again to fix this?

- A. pwconv
- B. passconvert
- C. useradd -conv
- D. pwhash
- E. passwd -fix

Answer: A

QUESTION NO: 11

Your server has two fully functional NIC's with correct IP configuration. The server is not forwarding traffic between the NIC's. Which command string will set the cards to forward properly?

- A. setparam 1 > /proc/sys/net/ipv4/ip_autoconfig
- B. echo 1 > /proc/sys/net/ipv4/ip_forward
- C. set \$=1 /proc/sys/net/ipv4/route
- D. cat \$1 > /proc/sys/net/ethernet
- E. vi +/1 /proc/sys/net/unix/max_dgram_qlen

Answer: B

QUESTION NO: 12

Which of the following are valid commands to affect your system's printing?

- A. lpq
- B. lprm
- C. lpstatus
- D. lpr
- E. lpio

Answer: A, B, D

QUESTION NO: 13

What configuration file is used for settings and conversion parameters for the ftp daemon?

- A. ftpusers
- B. ftpconvert
- C. ftpconversions
- D. in.ftpd
- E. ftpdefaults

Answer: C

QUESTION NO: 14

Which two commands share the same database for retrieving information?

- A. whatis
- B. whereis
- C. apropos
- D. find
- E. man

Answer: A, C

QUESTION NO: 15

What command will show only complete word matches for a search term?

- A. whatis
- B. apropos
- C. locate
- D. find
- E. whereis

Answer: A

QUESTION NO: 16

What command will show partial word matches for a search term?

- A. apropos
- B. locate
- C. whereis
- D. whatis
- E. find

Answer: A

QUESTION NO: 17

What command is the functional equivalent of the command "man -k searchterm"?

- A. apropos searchterm
- B. whatis searchterm
- C. locate searchterm
- D. find / -name searchterm
- E. None of the selections

Answer: A

QUESTION NO: 18

What command is the functional equivalent of the command "man -f searchterm"?

- A. whatis searchterm
- B. apropos searchterm
- C. locate searchterm
- D. find / -name searchterm
- E. None of the selections

Answer: A

QUESTION NO: 19

Where can you specify options that affect the booting of the system?

- A. /etc/lilo.conf
- B. boot= prompt
- C. linux:
- D. init 3
- E. init 5

Answer: A, B

QUESTION NO: 20

Which commands will print two copies of the file to the default printer? Choose all that apply.

- A. cat hosts | lpr -#2
- B. lpr -K2 hosts
- C. lpr -P -count 2 hosts
- D. cat hosts > lpr ; cat hosts > lpr
- E. for 1 in 2 lpr hosts

Answer: A, B

QUESTION NO: 21

On a default install of a Linux server, regardless of the distribution version, what are the easiest methods to disable telnet, but not uninstall or remove the service? Choose two.

- A. Comment telnet out of the /etc/inetd.conf file
- B. Delete the /etc/rc.d/init.d/telnet file
- C. Rename all SXXtelnet links in the /etc/rc or /etc/rc.d directories
- D. Run "chmod 554 /etc/xinetd.d/telnet"
- E. Nothing, it's not enabled by default

Answer: A, E

QUESTION NO: 22

Which daemon or service can be configured as a non-root user?

- A. cron
- B. ntp
- C. lpr
- D. nmbd
- E. slocate

Answer: A

QUESTION NO: 23

Which of the following options will speed up traceroute for distant network queries?

- A. -n
- B. -p

- C. -0
- D. -t
- E. -q

Answer: A

QUESTION NO: 24

What command could you use to confirm function of a ppp connection before establishing it?

- A. minicom
- B. hyperterminal
- C. setserial
- D. modemset
- E. None of the choices

Answer: A

QUESTION NO: 25

What file on a system contains a list of hosts that can't connect to the machine's services?

- A. /etc/hosts/denial
- B. /etc/hosts.deny
- C. /etc/host.notallow
- D. /etc/inetd.conf
- E. /etc/hosts.not

Answer: B

QUESTION NO: 26

Which of the following IP address ranges are considered private, according to RFC 1918? Choose all that apply.

- A. 10.0.0.0 - 10.255.255.255
- B. 192.168.0.0 - 192.168.255.255
- C. 172.16.0.0 - 172.31.255.255
- D. 191.168.16.0 - 192.168.31.255
- E. 172.16.0.0 - 172.16.255.255

Answer: A, B, C

QUESTION NO: 27

Which protocol is used for the majority of the ping command's actions?

- A. ICMP
- B. UDP
- C. TCP
- D. NDP
- E. NCP

Answer: A

QUESTION NO: 28

What modprobe option will cause inactive kernel modules to be unloaded?

- A. autoclean
- B. inactive
- C. remove
- D. timeout
- E. holdoff

Answer: A

QUESTION NO: 29

Select all of the protocols that are supported by the Linux implementation of ppp.

- A. chap
- B. mschap
- C. pap
- D. spap
- E. eap

Answer: A, B, C

QUESTION NO: 30

What command with options will cause the redirection symbol (>) to fail to overwrite the contents of an existing file?

- A. set -o noclobber
- B. set +o nooverwrite
- C. export OVERWRITE=no
- D. alias >='!>'
- E. None of the choices

Answer: A

QUESTION NO: 31

Where can the lilo command install the boot menu and information? Choose all that apply.

- A. Master Boot Record
- B. BIOS
- C. First Sector of a Partition
- D. BootBlk
- E. Boot Prom

Answer: A, C

QUESTION NO: 32

Which of the following is not a valid make command during a kernel recompile?

- A. make dep
- B. make clean
- C. make xconfig
- D. make modules
- E. make gzlilo

Answer: E

QUESTION NO: 33

Which parameters should appear in a valid /etc/printcap file to allow a local printer queue to point to another machine's print queue? Choose two.

- A. rm
- B. rp

- C. remoteip
- D. netprinter
- E. netip

Answer: A, B

QUESTION NO: 34

Which of the following commands will print the file putty on the printer hplaserj? Choose all that apply.

- A. lpr -P hplaserj -F putty
- B. lpr -Phplaserj putty
- C. lpc printer=hplaserj file=putty
- D. lpr -p hplaserj putty
- E. lpr -P hplaserj putty

Answer: B, E

QUESTION NO: 35

Which of the following services would you be least likely to configure to be governed over by the Internet Super Server?

- A. ftp
- B. telnet
- C. ssh
- D. finger
- E. bind

Answer: C

QUESTION NO: 36

What ppp option governs how long an interrupted connection will remain down before it attempts to reconnect?

- A. holddown
- B. holdoff
- C. inactive
- D. delay
- E. wait

Answer: B

QUESTION NO: 37

What files affect the functioning of TCP Wrappers? Choose Two.

- A. /etc/hosts.deny
- B. /etc/nsswitch.conf
- C. /etc/security/authconfig
- D. /etc/default/clients
- E. /etc/hosts.allow

Answer: A, E

QUESTION NO: 38

You are not using the WINS service on your network, but need to provide NETBIOS resolution to your hosts. What is the name of the daemon that provides these services on a Linux server?

- A. nmbd
- B. dns
- C. winsd
- D. lmhosts
- E. smbd

Answer: A

QUESTION NO: 39

Select from the list below the daemons that are present on a standard Linux server to support routing. Choose all that apply.

- A. gated
- B. ripd
- C. routed
- D. ospfd
- E. bgpd

Answer: B, C, D, E

QUESTION NO: 40

You are performing an onsite security inspection of division of your company. On an Apache server, you want to determine what files are needed and which can be removed from the /etc/httpd folder.

Which of the following are possibly valid Apache configuration files? Choose all that apply.

- A. httpd.conf
- B. apached.conf
- C. srm.conf
- D. access.conf
- E. in.http.conf

Answer: A, C, D

QUESTION NO: 41

In order to allow a Win95 host to resolve the name of and map network drives to your Linux server, what services should be running? Choose Two.

- A. nmbd
- B. smbd
- C. named
- D. routed
- E. winsd

Answer: A, B

QUESTION NO: 42

What is the simplest method to connect a Win98 host to a Linux Server? Choose all that apply.

- A. Velcro
- B. Samba
- C. NFS
- D. DNS
- E. WINS

Answer: A, B

QUESTION NO: 43

What files affect the name resolution functionality of a Linux host? Choose Three.

- A. /etc/resolv.conf
- B. /etc/hosts
- C. /etc/default/names
- D. /etc/nsswitch.conf
- E. /etc/inet/hosts

Answer: A, B, D

QUESTION NO: 44

What is true about the root user and NFS?

- A. NFS shares don't allow root access by default
- B. NFS automatically masks out share permissions
- C. NFS automatically maps all root UID's to the local user "rootsquash"
- D. NFS ignores all users with a UID of 0 and a GID of 0
- E. NFS pays no attention whatsoever to security

Answer: A

QUESTION NO: 45

Where are the default settings for the useradd command kept?

- A. /etc/default/useradd
- B. /etc/sysconfig/useradd.cfg
- C. /etc/.useradd
- D. /etc/defaults/useradd
- E. /etc/login.defs

Answer: A

QUESTION NO: 46

What two files acting together make up the login environment for a user on a default install of Linux?

- A. /etc/profile
- B. /etc/bashrc
- C. /etc/.login

- D. ~/.bash_profile
- E. /etc/.profile

Answer: A, D

QUESTION NO: 47

What protocol will allow you to keep accurate time on your hosts?

- A. ntp
- B. nntp
- C. ncftp
- D. inn
- E. ntime

Answer: A

QUESTION NO: 48

What will the following line in the /etc/exports file do?

/data snowblower(rw) badhost (ro)

- A. Give snowblower rw access to the data share, deny badhost any access, and allow ro for all other hosts
- B. Give snowblower rw access to the data share, give badhost ro access to share and deny all others
- C. Give snowblower no access to the data share, give badhost rw access and set ro access for all others
- D. Cause a syntax error

Answer: A

QUESTION NO: 49

You've just finished editing a new entry in the /etc/exports file. Which of the following will cause the changes to take effect without interrupting current connected users or rebooting the machine?

Choose all that apply.

- A. exportfs -a
- B. /etc/rc.d/init.d/nfs restart
- C. service nfs restart
- D. kill -1 HUP nfs
- E. init 1

Answer: A

QUESTION NO: 50

What system file contains definitions of well known ports, their associated services and protocols?

- A. /etc/services
- B. /etc/sysconfig/network-scripts
- C. /etc/services.conf
- D. /etc/inet/hosts
- E. None of the choices

Answer: A

QUESTION NO: 51

What file should be edited to make the system aware of newly added library files?

- A. /etc/modules.conf
- B. /etc/conf.modules
- C. /etc/ld.so.conf
- D. /etc/ld.so.cache
- E. /etc/LD_LIBRARY_PATH.conf

Answer: C

QUESTION NO: 52

What is the binary conversion of the IP address 192.168.1.10?

- A. 11000000.10101000.00000001.00001010
- B. 01101010.11000100.10101000.00000001
- C. 00000001.00001010.11000000.10101000
- D. 10101000.00000001.00001010.11000000
- E. None of the choices

Answer: A

QUESTION NO: 53

Your investigation of a system turns up a file that contains the line below:

```
find /home -iname .rhosts -exec rm -f {} \;
```

What is the purpose of this script?

- A. To enhance system security
- B. To remove all program error dumps
- C. To remove all temporary files in the user's home directories
- D. To reset the configuration for the rsh and rexec utilities

Answer: A

QUESTION NO: 54

What command will convert your shadow password file to md5 compatible passwords?

- A. passconv
- B. pwconv
- C. mdconv
- D. mdsum
- E. passwd --convert

Answer: B

QUESTION NO: 55

Your machine's IP address used to function, but it's only got the localhost "lo" entry now. What three client-mode commands could you possibly use to get a new DHCP address?

- A. dhcpd
- B. ipconfig
- C. dhclient
- D. pump
- E. dhcpcd

Answer: C, D, E

QUESTION NO: 56

Which two services resolve Netbios names to IP addresses?

- A. WINS
- B. NetbiosSVC
- C. smbd
- D. nmbd
- E. DNS

Answer: A, D

QUESTION NO: 57

Which daemon allows Linux to share it's file systems and printers with unmodified Windows clients?

- A. X Window
- B. nmbd
- C. smbd
- D. WINS
- E. NFS

Answer: C

QUESTION NO: 58

**What configuration files on a Linux Server can be configured to share file systems with clients?
Choose Two.**

- A. /etc/nmbd
- B. /etc/smbd
- C. /etc/smb/samba.conf
- D. /etc/smb.conf
- E. /etc/samba/smb.conf

Answer: D, E

QUESTION NO: 59

What command is used to monitor connections to the SMB server?

- A. smbclient
- B. testparm
- C. smbstatus
- D. smbstat

Answer: C

QUESTION NO: 60

Which of the following will run a file named myscript every 23 minutes past midnight every two hours?

- A. 23 0-23/2 * * * /myscript
- B. 23 */0-23 * * * /myscript
- C. 23 @2 * * * /myscript
- D. 11 2/0-23 * * * /myscript

Answer: A

QUESTION NO: 61

Which backup method resets the archive bit? Select all that apply.

- A. Full
- B. Incremental
- C. Differential
- D. Copy
- E. DirTree

Answer: A, B

QUESTION NO: 62

Which backup method will require the minimum tapes to restore?

- A. Full
- B. Incremental
- C. Differential
- D. Copy
- E. DirTree

Answer: A

QUESTION NO: 63

What is the command to map a Windows user ID to a Linux user ID for use with the Samba Server?

- A. smbuser
- B. smbpasswd
- C. smbadduser
- D. useradd smb
- E. useradd

Answer: C

QUESTION NO: 64

When using the PPP daemon make a connection, what option is set to configure it to use hardware flow control?

- A. crtsets
- B. rsync
- C. nsync
- D. connect

Answer: A

QUESTION NO: 65

When using pppd which authentication protocol is the most secure?

- A. clear text
- B. PAP
- C. CHAP
- D. LAP

Answer: C

QUESTION NO: 66

Your DNS server needs to be configured for speed and security. Choose the best answer.

- A. Disable inetd, run named standalone, only allow tcp on ports 25 and 53
- B. Disable inetd, run named standalone, only allow tcp on ports 25 and 110
- C. Enable inetd, run named as an inetd service, only allow tcp on ports 25 and 53
- D. Disable inetd, run named as a standalone on the apache server.

Answer: A

QUESTION NO: 67

Shares can be configured for export via the NFS service by editing what file?

- A. /etc/exports
- B. /etc/export
- C. /etc/exportfs
- D. /etc/nfs/exports

Answer: A

QUESTION NO: 68

A file exists on a server, but has no content. Users cannot submit jobs to an attached printer. Choose the correct file that must be edited to fix this problem.

- A. /etc/hosts
- B. /etc/hosts.allow
- C. /etc/host.deny
- D. /etc/hosts.lpd
- E. /var/spool/hosts.lpd

Answer: D

QUESTION NO: 69

What does "make bzImage" do as opposed to "make zImage"?

- A. makes a bz encrypted kernel
- B. makes a kernel with a better compression ratio
- C. makes a kernel with built in gzip application
- D. nothing

Answer: B

QUESTION NO: 70

In the following output, which is representative of the host performing gateway functions?

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
10.3.3.0	192.168.1.1	255.255.255.255	UGH	0	0	0	eth0
192.168.1.0	*	255.255.255.0	U	0	0	0	eth0
192.168.77.0	*	255.255.255.0	U	0	0	0	vmnet1
127.0.0.0	*	255.0.0.0	U	0	0	0	lo
default	192.168.1.1	0.0.0.0	UG	0	0	0	eth0

- A. The default gateway is on 192.168.77.0 network
- B. The current host is the also the default gateway
- C. Its eth0 interface is incorrectly configured
- D. The 192.168.1.1 is the default gateway

Answer: B

QUESTION NO: 71

Select the files that are associated with TCP Wrappers. Choose all that apply.

- A. /etc/hosts
- B. /etc/hosts.allow
- C. /etc/hosts.deny
- D. /etc/allow.hosts
- E. /etc/allow.deny

Answer: B, C

QUESTION NO: 72

Which file is responsible for configuring the inet daemon?

- A. /etc/inetd.conf
- B. /etc/xinetd.conf
- C. /etc/tcpd.conf
- D. /etc/inet.conf

Answer: A

QUESTION NO: 73

Which option in the /etc/fstab file causes all users IDs to be mapped to the system's anonymous ID when mounting a NFS mounted file system?

- A. no-root-squash
- B. all-squash
- C. all-id-squash
- D. root-squash

Answer: B

QUESTION NO: 74

Which fstab option governs that all root ID are mapped to anonymous ID when mounting a NFS mounted file system?

- A. no-root-squash
- B. root-squash
- C. all-squash
- D. squash-root

Answer: B

QUESTION NO: 75

What command would load the module msdos.o and all its dependancies?

- A. modinfo -a msdos
- B. lsmod -a msdos
- C. modprobe msdos
- D. insmod -d msdos

Answer: C

QUESTION NO: 76

You have just added new modules to your system. What command would you execute to rebuild the modules.dep file?

- A. depmod --rebuild
- B. update-dependencies
- C. depmod -a
- D. insmod -dependencies

Answer: C

QUESTION NO: 77

Which port is used for DNS

- A. 110
- B. 21
- C. 23
- D. 52
- E. 53

Answer: E

QUESTION NO: 78

Which ports are used for FTP data and control? Choose Two.

- A. 20
- B. 23
- C. 22
- D. 21
- E. 25

Answer: A, D

QUESTION NO: 79

What command would rebuild the ld.so.cache file

- A. ldd
- B. ldconfig
- C. ld.so.cache -rebuild
- D. ld

Answer: B

QUESTION NO: 80

On a debian system which of the following would build a boot disk

- A. mkboot /dev/floppy
- B. makeboot --device /dev/fd0 2.4.18-12
- C. mkboot --device /dev/fd0 2.4.18-12
- D. mkboot /boot/vmlinux-2.4.18-12
- E. mkbootdisk /boot/vmlinux-2.4.18-12

Answer: D

QUESTION NO: 81

What configuration file and directive will alter your apache server IP and or port that it listens to?

- A. Port
- B. IPAddress
- C. Listen
- D. MinSpareServers

Answer: C

QUESTION NO: 82

What Apache directive must you change when using inetd to control your Apache server?

- A. ServerType
- B. ServerInetd
- C. InetServer
- D. StartServer
- E. ServerMethod

Answer: A

QUESTION NO: 83

Which Apache Directive specifies the location of the HTTP documents?

- A. RootDocument
- B. ServerRoot
- C. DocumentRoot
- D. RootServer
- E. DocPath

Answer: C

QUESTION NO: 84

What command can be used to shut down the Apache server gracefully

- A. apacheshut
- B. apachectl
- C. apachestop
- D. apachestart

Answer: B

QUESTION NO: 85

What is the recommended setting for StartServers in a medium sized Apache installation?

- A. 5
- B. 10
- C. 15
- D. 20

Answer: B

QUESTION NO: 86

Your server logfile shows repeated connections to TCP port 143, What service is being accessed?

- A. smtp
- B. imap
- C. pop3
- D. pop2
- E. nmbd

Answer: B

QUESTION NO: 87

To learn more about the management or ownership of a website, what's the best utility to use?

- A. tracer
- B. traceroute
- C. whois
- D. ping
- E. telnet

Answer: C

QUESTION NO: 88

You have a Linux system routing 3 networks through 3 separate NICs and are having trouble with your IP forwarding. What file would you check to ensure that IP forwarding is enabled?

- A. /etc/defaultrouter
- B. /proc/net/tcp
- C. /proc/sys/net/ipv4/ip_forward
- D. /var/log/messages

Answer: C

QUESTION NO: 89

What command would cause a print job to be printed next regardless of its current position in the queue.

- A. lpc topq
- B. lpc -t
- C. lpq -t
- D. lpc move
- E. lpq --next

Answer: A

QUESTION NO: 90

Which two files are responsible for allowing users to execute cron jobs?

- A. /etc/cron.allow
- B. /var/spool/cron.allow
- C. /var/spool/cron.allow
- D. /etc/cron.deny

Answer: A, D

QUESTION NO: 91

What file must you create in your home directory in order to enable mail forwarding?

- A. .redirect
- B. .forward
- C. .plan
- D. .mail
- E. None of the choices

Answer: B

QUESTION NO: 92

What command will tell you which groups you belong to?

Answer:

QUESTION NO: 93

The correct crontab entry in the minutes column to create a command in cron that runs every two minutes would be ____.

Answer:

QUESTION NO: 94

What is a filesystem type the dump utility can work with?

Answer:

QUESTION NO: 95

What one filesystem should you never restore (and therefore not backup): ____.

Answer:

QUESTION NO: 96

You use the public NTP server *time.nist.gov* to make sure your system clock is accurate before using it to adjust your hardware clock.

Complete the following command to accomplish this:

_____ time.nist.gov

Answer:

QUESTION NO: 97

To slave your NTP daemon to an external source, you need to modify the _____ variable in your */etc/ntp.conf* file.

Answer:

QUESTION NO: 98

NTP is used to synchronize the system _____ with a central system resource.

Answer:

QUESTION NO: 99

Which of the following IP networks does RFC1918 reserve for use on private intranets? (Choose two)

- A. 10.0.0.0
- B. 224.0.0.0
- C. 199.14.0.0
- D. 172.152.0.0
- E. 192.168.0.0

Answer:

QUESTION NO: 100

The _____ is used by the local host to determine which hosts are on the local subnet, and which hosts are on remote networks.

- A. DNS
- B. ARP
- C. gateway
- D. netmask
- E. routing protocol

Answer:

QUESTION NO: 101

Which protocol is used by ping?

- A. TCP
- B. UDP
- C. SMB
- D. ICMP
- E. OSPF

Answer:

QUESTION NO: 102

What is the command most often used for configuring network interfaces?

Answer:

QUESTION NO: 103

On a system using shadowed passwords, the correct permissions for /etc/passwd are ____ - and the correct permission for /etc/shadow are _____.

- A. -rw-r-----, -r-----
- B. -rw-r--r--, -r--r--r--
- C. -rw-r--r--, -r-----
- D. -rw-r--rw-, -r-----r--
- E. -rw-----, -r-----

Answer:

QUESTION NO: 104

Identify the statement that would create a default route using a gateway of 192.168.1.1

- A. netstat-add default gw
- B. route default 192.168.1.1
- C. ip route default 192.168.1.1
- D. route add default gw 192.168.1.1
- E. ifconfig default gw 192.168.1.1 eth0

Answer:

QUESTION NO: 105

If you suspect that a gateway machine on your network has failed but you are unsure which machine, which command will help locate the problem?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

Answer:

QUESTION NO: 106

According to the PPP HOWTO which piece of software could help you test a modem?

- A. chat
- B. dhcpd
- C. minicom
- D. Hylafax
- E. netconfig

Answer:

QUESTION NO: 107

Suppose that the command netstat-a hangs for a long time without producing output.

You might suspect:

- A. A problem with NFS
- B. A problem with DNS.
- C. A problem with NIS.
- D. A problem with routing.
- E. That the **netstat** daemon has crashed.

Answer:

QUESTION NO: 108

You build and configured a bastion host to act as a router between two internal networks. Both eth0 and eth1 can see hosts on their respective networks, but the hosts on each network cannot see any hosts on the other network. After verifying that the hosts have the correct gateway route, you decide the bastion host does not have IP forwarding turned on.

To check this cat the file `/proc/sys/net/ipv4/` _____ to ensure it has a 1.

Answer:

QUESTION NO: 109

When using `/etc/ppp/peers/*` files, which of the following is true:

- A. The `/etc/ppp/options` should be empty.
- B. Any user can run **pppd** from the command line.
- C. The dial-on-demand option cannot be used.
- D. You must use chap authentication.

Answer:

QUESTION NO: 110

You want a secure and fast DNS server that must also be quickly accessible remotely.

You should:

- A. Reject all udp packets.
- B. Reject all icmp packets.
- C. Reject all icmp untrusted-host packets.
- D. Disable inetd, run ssh and named as standalone daemons.
- E. Use tcpwrappers to only allow connections to ports 22 and 53.

Answer:

QUESTION NO: 111

To disable telnet service on a system, which action should you take?

- A. Put NONE in /etc/telnet.allow
- B. Remove the appropriate **telnet** init script.
- C. Put a line 'ALL:ALL' in /etc/hosts.deny
- D. Comment the telnet entry in /etc/inittab
- E. Comment the telnet entry in /etc/inetd.conf

Answer:

QUESTION NO: 112

In what file are the mail aliases kept for Sendmail? (Provide the complete path)

- A. /etc/aliases
- B. /etc/mailaliases
- C. /etc/sendmail.aliases
- D. /etc/sendmail/aliases
- E. /var/spool/mail/aliases

Answer:

QUESTION NO: 113

What directory by default contains the delivered mail for each user?

- A. ~/mail/
- B. /usr/mail/
- C. /var/mail/
- D. /var/mail/spool/
- E. /var/spool/mail/

Answer:

QUESTION NO: 114

Of the ways listed, which is the best way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.
- B. Changing the user's password.
- C. Changing the user's shell to `/bin/false`.
- D. Removing the user's entry in `/etc/passwd`.
- E. Placing the command **logout** in the user's profile.

Answer:

QUESTION NO: 115

How many spare server processes are required by Apache for the typical, low-to-moderate volume website?

- A. 1
- B. 50
- C. 10
- D. 200

Answer:

QUESTION NO: 116

Which of the following files typically are used to configure Apache? (Choose two)

- A. `srm.conf`
- B. `www.conf`
- C. `http.boot`
- D. `httpd.conf`
- E. `apache.conf`

Answer:

QUESTION NO: 117

What file contains a list of directories for an NFS daemon to server to other systems? (Provide the complete answer)

Answer:

QUESTION NO: 118

What are reverse DNS entries used for?

- A. Reverse DNS enable diagnostic commands like traceroute to work.
- B. Reverse DNS gives you information about the owner of the DNS entry.
- C. Reverse DNS provides the hostname for a particular numeric IP address.
- D. Reverse DNS provides geographical information about the DNS net location.

Answer:

QUESTION NO: 119

You decide to use xinetd instead of inetd.

What must be done in order to properly configure xinetd?

- A. You must create a new configuration file for **xinetd**.
- B. You must add **xinetd** to `/etc/services`.
- C. You must add **xinetd** support to your **tcpwrappers** configuration files.
- D. Nothing, **xinetd** uses the same configuration files as **inetd**.

Answer:

QUESTION NO: 120

To avoid spammers using your mail server to relay their messages, you need to _____.

- A. Disable the relay control in `/etc/aliases`
- B. Set up a ruleset for this in `/etc/sendmail.cf`
- C. Set up relay control in your DNS's MX record.
- D. Recompile **sendmail** with the `-NORELAY` flag.

Answer:

QUESTION NO: 121

You have a standard Apache web server installation and want to make it respond to requests on port 8088. To do this, what configuration file do you need to change?

- A. None. This is the default port.

- B. /etc/httpd/apache.conf
- C. /etc/httpd/ports.conf
- D. /etc/httpd/httpd.conf
- E. /etc/httpd/access.conf

Answer:

QUESTION NO: 122

This is a line from the file `/etc/export`:
`/product testking(rw)`

What does it mean?

- A. Only user *testking* may access the filesystem `/product` when it is NFS mounted.
- B. This computer will mount the filesystem `/product` on *testking* via NFS.
- C. The filesystem `/product` is exported for NFS mount to computer *testking*.
- D. All NFS access to `/product` will use *suid testking*.

Answer:

QUESTION NO: 123

These lines are taken from `/etc/smb.conf`:

```
workgroup = group1
guest account = nobody
```

What else is needed for this to work?

- A. *nobody* must be a valid group on the server.
- B. *nobody* must be a user name listed in `/etc/passwd`.
- C. *group1* must be a valid group on the server.
- D. *workgroup* must be a valid group on the server.

Answer:

QUESTION NO: 124

What file determines the DNS servers used by your computer?

- A. /etc/hosts
- B. /etc/named.conf
- C. /etc/nsswitch.conf
- D. /etc/resolv.conf

Answer:

QUESTION NO: 125

In what file do you change default shell variables for all users?

- A. /etc/bashrc
- B. /etc/profile
- C. ~/.bash_profile
- D. /etc/skel/.bashrc
- E. /etc/skel/.bash_profile

Answer:

QUESTION NO: 126

This is the file `/etc/named.boot` from the computer named *tellus* with IP address 128.66.12.10.

directory			/etc
secondary	testking.com	128.66.12.	testking.com.hosts
secondary	66.128.IN-ADDR.ARPA	128.66.12.5	128.66.rev
primary	0.0.127.IN-ADDR.ARPA		named.local
cache			named.ca

From this file, you know that:

- A. *tellus* is the primary DNS server for domain testking.com.
- B. There is a secondary DNS server for domain testking.com at the IP address 128.66.12.5.
- C. *tellus* is a secondary DNS server for domain testking.com and it downloads the domain data from the server at IP address 128.66.12.5.
- D. The server at IP address 128.66.12.5 is allowed to download domain and reverse lookup data from *tellus*.

Answer:

QUESTION NO: 127

The files `/etc/hosts.allow`, `/etc/hosts.deny` and `/etc/nologin` all exist on your computer, and the `sshd` daemon is running.

What will happen when users try to connect with `ssh`?

- A. Only connections from computers specified in `/etc/hosts.allow` will be allowed to log in.
- B. Only `root` will be allowed to log in.
- C. All users not specified in `/etc/hosts.deny` will be allowed to log in.
- D. No user will be allowed to log in.

Answer:

QUESTION NO: 128

The file `/etc/ssh_host_key` should be:

- A. world-readable
- B. readable to group `sys`
- C. readable to `root` only
- D. readable by all SSH users

Answer:

QUESTION NO: 129

You've just rebooted your server. Users complain that the server is refusing secure connections. Which of the following is most likely causing this problem?

- A. The clients are not resolving the server name properly.
- B. `sshd` is not configured to start in the default runlevel.
- C. `sshd` is using `tcpwrappers` for security.
- D. The public keys have been corrupted on the server.
- E. The users need to restart their `ssh-agent`.

Answer:

QUESTION NO: 130

To increase system security, it is often desirable to run daemons for system services with non-root user ids.

Which one of the following services can be run as a non-root user?

- A. **inetd**
- B. **named**
- C. **rlogind**
- D. **crond**
- E. **telnetd**

Answer:

QUESTION NO: 131

You want to change the aging information in the `/etc/shadow` file. What is the best utility to use to do this?

- A. **vi**
- B. **emacs**
- C. **usermod**
- D. **modinfo**
- E. **chage**

Answer:

QUESTION NO: 132

You've been reviewing your security checklist and one of the items calls for reviewing the `/etc/passwd` file. You cat the file and notice that, while most users have an x in the second column, a few have a 14 character string in the second column. What action, if any, should you take?

- A. No action. The users with an x have their accounts locked.
- B. Run **pwconv** to convert the unix passwords to shadow passwords.
- C. Use the **passwd** program to give the users with the hashed passwords new passwords.
- D. Use the **passwd** program to give the users with the x new passwords.
- E. No action. Linux knows how to handle the situation and allow user logins.

Answer:

QUESTION NO: 133

You've decided to convert from standard shadow passwords to MD5 passwords. You make the appropriate changes to the `/etc/pam.d/` files. What do you do next?

- A. Nothing, the passwords will be changed as users login and out.
- B. Nothing, users will be automatically prompted to change their passwords at the next login.
- C. You need to manually change all the passwords using the passwd program.
- D. Delete and recreate all the users.
- E. Change the /etc/pam.d files back because shadow passwords and MD5 passwords are incompatible.

Answer:

QUESTION NO: 134

If you need to view per-user disk space usage on a filesystem, the _____ command can provide that information if the kernel is built to support it.

Answer:

QUESTION NO: 135

What well-known service binds port 25 and is it required on all hosts?

- A. SNMP and it should be turned off if not needed.
- B. SMTP and it is a required service.
- C. SMTP and it is only required on MX hosts.
- D. SLPD and it is required if you run LDAP services.
- E. SSHD and it is required for secure logins.

Answer:

QUESTION NO: 136

How many cron fields are there for specifying the time to execute a cron job?

- A. 1
- B. 3
- C. 4
- D. 5
- E. 6

Answer:

QUESTION NO: 137

What command will unload a kernel module?

- A. **rmmod**
- B. **unmod**
- C. **delmod**
- D. **modprobe**
- E. **unloadmod**

Answer:

QUESTION NO: 138

When preparing to compile a new kernel, which of the following commands can be used to create the configuration file?

- A. **make** config
- B. **make** kernel
- C. **./configure**
- D. **make** kernelconfig
- E. [Kernel Source Path]/Configure

Answer:

QUESTION NO: 139

Which of the following could be used to load kernel modules for a 2.4.x kernel?

- A. **vi**/proc/modules
- B. **rmmod**
- C. **kmod**
- D. **depmod**

Answer:

QUESTION NO: 140

You have just recompiled a new kernel and rebooted your system with the new kernel. Unfortunately you are getting "Can't locate module" error messages.

Which of the following is most likely to be the source of the problem?

- A. You copied the modules to the wrong directory.
- B. You did not configure modular support into the kernel.
- C. You did not run **depmod** after installing the modules.
- D. You did not install the modules.

Answer:

QUESTION NO: 141

Some loadable kernel modules accept options at load time. This can be used to set interrupt or IO addresses, for example.

The place to set these options is?

- A. /etc/conf.modules
- B. /etc/lilo.conf
- C. /boot/System.map
- D. /etc/sysconfig
- E. /boot/module-info

Answer:

QUESTION NO: 142

Which command will display messages from the kernel that were output during the normal bootup sequence?

Answer:

QUESTION NO: 143

You are having some trouble with a disk partition and you need to do maintenance on this partition but your users home directories are on it and several are logged in.

Which command would disconnect the users and allow you to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

Answer:

QUESTION NO: 144

You need to change the default runlevel.

Which file do you need to edit? (Write the full path including the filename)

Answer:

QUESTION NO: 145

Which of the following commands can be used to view kernel messages?

- A. **less** dmesg
- B. **less** /var/log/kern.log
- C. **cat** /proc/kernel |less
- D. **cat** /proc/dmesg

Answer:

QUESTION NO: 146

What program do you use to suspend a printer queue?

- A. lpr
- B. lpq
- C. lpc
- D. lpd
- E. lprm

Answer:

QUESTION NO: 147

Which crontab entry could be used to set the system time at regular intervals?

- A. 10 * * * date \$d\$t\$24
- B. 10 * * * settime \$d\$t\$24
- C. 10 * * * date<ntpl.digex.net
- D. 10 * * * /usr/sbin/runcron date <ntpl.digex.net
- E. 10 * * * /usr/sbin/ntpdate ntp1.digex.net> /dev/null2>&1

Answer:

QUESTION NO: 148

What would the following command do?

```
cat hosts | lpr -#2
```

- A. Print the file hosts on the default printer two times.
- B. Categorize hosts and print the categorization as job #2.
- C. Output the file hosts to the line printer and assign it to the second printer queue.
- D. Print the hosts file to STDOUT and assign the current print job to printer tray number 2.

Answer:

QUESTION NO: 149

The hosts.lpd file provides:

- A. A list of network printer IP addresses.
- B. A listening of printers available on the local network.
- C. A listening of computers that have printer (lpd) daemons running.
- D. A listening of hosts allowed to use printers on the local machine.
- E. A list of hosts on the local network that are not allowed access to printers attached to the local machine.

Answer:

QUESTION NO: 150

Assume that on your system, there are man pages for both the command crontab and the configuration file for crontab.

What command would you use to access the man page for the crontab configuration file?

Answer:

QUESTION NO: 151

You need to find all references in your system documentation to the word “copy”.

Which of the following will best accomplish this task?

- A. man copy
- B. which copy
- C. locate copy
- D. apropos copy
- E. grep "copy" /usr/man/*

Answer:

QUESTION NO: 152

The main collection of Linux usenet newsgroups are found in which usenet hierarchy?

- A. sys.linux
- B. comp.linux
- C. comp.os-linux
- D. comp.sys.linux
- E. comp.opsys.linux

Answer:

QUESTION NO: 153

What Internet based organization is primarily responsible for hosting and distributing the various Linux HOWTOs? (NOT the URL)

Answer:

QUESTION NO: 154

What file is displayed BEFORE users log in for users who log in to the machine locally?

- A. /etc/issue
- B. /etc/issue.net
- C. /etc/motd
- D. /etc/local.banner

Answer:

QUESTION NO: 155

You want to find the man pages for utilities and tools related to PPP, but you don't know the name of the specific commands.

How can you get a list of man pages that contain information about PPP?

- A. **whatis** ppp
- B. **man** ppp
- C. **apropos** ppp
- D. **mandb** ppp

Answer:

QUESTION NO: 156

Which two files in a user's home directory are used to customize the bash environment?

- A. bash and .bashrc
- B. bashrc and-bash_conf
- C. bashrc and bashprofile
- D. .bashrc and .bash_profile
- E. bash.conf and .bash_profile

Answer:

QUESTION NO: 157

What is considered the normal exit value of a process?

Answer:

QUESTION NO: 158

You just installed a new system, but before you create any new users you want to ensure they have a subdirectory bin/ in their home directory. To ensure this directory is automatically created each time you add a new user, in what subdirectory should you create the directory?

Answer:

QUESTION NO: 159

What BASH environment variable will prevent you from overwriting a file with a ">" or ">>"?

- A. **set-o** safe
- B. **set-o** noglob
- C. **set-o** noclobber
- D. **set-o** append
- E. **set-o** nooverwrite

Answer:

QUESTION NO: 160

You added `/usr/local/bin` to your PATH environment variable. Next you executed the command `make`, which calls `gcc`. This failed because `gcc` couldn't find the executable in `/usr/local/bin` that it needed.

To fix this, you should execute:

_____PATH allowable

Answer:

Section B – More fill in the blank questions

QUESTION NO: 1

What is the name of the Kernel configuration file? Type just the filename.

Answer: config

QUESTION NO: 2

What command with options and arguments will display the mail servers for lpi.org?

Answer: dig lpi.org mx

Alternative correct answer: dig lpi.org MX

QUESTION NO: 3

Type the full path and name of the file whose global read bit you would change to deny normal users the ability to get useful information from the who and w commands.

Answer: /var/run/utmp

QUESTION NO: 4

What file would you edit to make the current user's vi session options always take effect? Type the full path and filename.

Answer: /.exrc

QUESTION NO: 5

You boot a freshly installed system loaded with all the defaults, xdm loads and crashes, and the system halts. How can you force the system to multi-user text mode with networking from the LILO: or boot: prompt?

Answer: linux 3

QUESTION NO: 6

What command with options will find all files on your system that have either the SUID or GUID bits set? Type the exact command with options to accomplish this.

Answer: find / -perm +6000

QUESTION NO: 7

What is the file that contains the settings and conversion parameters for the ftp server? Type in the name of the file only.

Answer: ftpconversions

QUESTION NO: 8

What is the preferred documentation tool of the FSF? Type in the name of the tool only.

Answer: info

QUESTION NO: 9

What file or utility is used by normal users to configure the cron daemon? Type in the name of the tool only.

Answer: crontab

QUESTION NO: 10

What file with full path is used to set the location to query for hostname resolution outside of the local system?

Answer: /etc/resolv.conf

QUESTION NO: 11

To stop immediately a DDOS attack from 10.1.1.128, what can you do? Type the command with the necessary options and arguments.

Answer: route add 10.1.1.128 lo

QUESTION NO: 12

With a Class C address, and a subnet mask of 255.255.255.0, how many host addresses are assignable?

Answer: 254

QUESTION NO: 13

What command will most effectively track a network path problem?

Answer: traceroute

QUESTION NO: 14

What command will load groups of modules into the kernel as needed?

Answer: modprobe

QUESTION NO: 15

Which local system networking file binds a hostname to an IP address? Type the full path and name of the file.

Answer: /etc/hosts

QUESTION NO: 16

What program will determine basic connectivity to a remote host? Type just the name of the program.

Answer: ping

QUESTION NO: 17

What file on a remote host should be configured to allow your host to print to it's already functioning printers? Type the full path and name of the file.

Answer: /etc/hosts.lpd

QUESTION NO: 18

What file contains a list of shared directories on a Linux/Unix system? Type the full path and name of the file.

Answer: /etc/exports

QUESTION NO: 19

To find the port used by a particular known service, you would look in what file? Type the full path and name of the file.

Answer: /etc/services

QUESTION NO: 20

What command will flush all jobs on all print queues on a Linux system that uses the LPD daemon? Type the command with any options and arguments.

Answer: lprm -a all

QUESTION NO: 21

Your IP address is 1.2.3.3. Which command would add a default gateway using the network 1.2.3.4?

Answer: route add default gw 1.2.3.4

QUESTION NO: 22

What command would help you test if your ppp connection was functional? Type just the command name.

Answer: minicom

QUESTION NO: 23

Where are command line aliases defined for a user? Type the full path and name of the file for the currently logged in user.

Answer: /.bashrc

QUESTION NO: 24

What file do you configure to make changes to your smbd and nmbd daemons? Type the full path and name of the file.

Answer: /etc/smb.conf

**Alternative correct answer:
/etc/samba/smb.conf**

QUESTION NO: 25

After modifying /etc/exports, what must be done to make the modifications available to users? Type the command with any options and arguments.

Answer: exportfs -a

QUESTION NO: 26

To produce a compiled kernel with slightly better than standard compression, type the command with and any options and arguments to accomplish just the compilation.

Answer: make bzImage

QUESTION NO: 27

What command will insert a single "!" symbol in from of the encrypted password in the system's shadow file? Type the command with any options and arguments.

Answer: usermod -L

passwd -l

QUESTION NO: 28

What is the exact, case-sensitive option that governs flow-control for the ppp daemon?

Answer: crtscts

QUESTION NO: 29

What file is used to deny hosts access to a system's printers? Type the filename including full path.

Answer: /etc/hosts.lpd

QUESTION NO: 30

What command with switches allows you to set the defaults for the useradd command? Type the command with any options and arguments.

Answer: useradd -D

QUESTION NO: 31

What file is used in recent apache distributions to configure the service? Type the full path and name of the file.

Answer: /etc/httpd.conf

Alternative correct answer:

/etc/httpd/httpd.conf

QUESTION NO: 32

What commands with any options, will cause sendmail to recognize newly added aliases while it's running?

Answer: sendmail -bi

Alternative correct answer:

newaliases

QUESTION NO: 33

In what file can you configure your name server resolution queries to use the localhost first? Type the full path and name of the file.

Answer: /etc/nsswitch.conf

QUESTION NO: 34

When you execute the "ls" command, you suspect an alias is set for the command, how can you just execute the command? Type the exact string that will accomplish this.

Answer: \ls

QUESTION NO: 35

In what directory does undelivered remote mail get stored in? Type the full path and name of the file.

Answer: /var/spool/mqueue

QUESTION NO: 36

Which utility is used to create or update the modules.dep file? Type the command only.

Answer: depmod

QUESTION NO: 37

What command can you use to determine the users connected to a Linux ftp server? Type just the command to accomplish this.

Answer: ftpwho

QUESTION NO: 38

What file is used to define a list of users that may NOT login to via the ftp daemon? Type just the name of the file.

Answer: ftpusers

QUESTION NO: 39

To change your Ethernet interface eth0 to the IP address 10.4.4.100 with a default class C subnet mask, type the full command string to accomplish this.

Answer: ifconfig eth0 10.4.4.100 netmask 255.255.255.0

QUESTION NO: 40

You are running a Red Hat machine. You have added a 2nd NIC to your machine and rebooted it. The card is detected in the BIOS but is not configured along with the eth0 interface upon network start. A file must be created to allow this interface to function. Type the full path and name of the file.

Answer: /etc/sysconfig/network-scripts/ifcfg-eth1

QUESTION NO: 41

Undelivered mail for local system users is stored in what directory? Type the full path of the directory.

Answer: /var/spool/mail/username

QUESTION NO: 42

What section of the Man pages are system administration commands in? Type the numeral of the section.

Answer: 8

QUESTION NO: 43

What section of the Man pages are system files mentioned in? Type the numeral of the section.

Answer: 5

QUESTION NO: 44

What command will display the active connections and Unix domain sockets for a running Linux machine with networking configured? Type just the command to accomplish this.

Answer: netstat

QUESTION NO: 45

Converting from the inetd to xinetd services requires populating entries in what file, including the full path and name?

Answer: /etc/xinetd.conf

QUESTION NO: 46

You have a job scheduled to run at 16:30 using the AT scheduler. When you type atq it displays the following information

```
[root@localhost root]# atq
2          2003-03-14 16:00 a root
[root@localhost root]#
```

Type in the command to remove only this job.

Answer: atrm 2

QUESTION NO: 47

What command will show pending jobs that will be executed once on a given date and time? Type just the command to accomplish this.

Answer: atq

QUESTION NO: 48

The last command functionality needs what log file to be present to operate properly? Type the full path and name of the file.

Answer: /var/log/wtmp

QUESTION NO: 49

Where should you put the .pinerc file so that all new users get it as part of their initial creation? Type the full path of the directory.

Answer: /etc/skel

QUESTION NO: 50

What command with options will show you the contents with associated pathnames of an archive file named archive.tar.gz? The file must not be unpacked with the command string. Type the full command string to accomplish this.

Answer: tar -tzvf archive.tar.gz

Alternative correct answers:

tar tzvf archive.tar.gz

tar zxvf archive.tar.gz

tar -zxvf archive.tar.gz

QUESTION NO: 51

On a Red Hat system, with a single floppy drive and a returned output from the uname command of 2.4.20-12, what exact command string will create a customized boot disk for this system? Type the full command string to accomplish this.

Answer: mkbootdisk --device /dev/fd0 2.4.20-12

QUESTION NO: 52

On a Debian-based system, what command will create a boot disk on the first floppy if your kernel image is named "vmlinux-2.4.18-4"? Type the full command string to accomplish this.

Answer: mkboot vmlinux-2.4.18-4
Alternative correct answer:
mkboot /boot/vmlinux-2.4.18-4

QUESTION NO: 53

You need to view the hardware address and IP address information for all of your configured and active interfaces. Type the simplest command string that will accomplish this.

Answer: ifconfig

QUESTION NO: 54

What command will most effectively send a list of certain files from a directory to the tar or cpio command? Type just the command name.

Answer: ls
cat

QUESTION NO: 55

On your system exists a file that is described as a map file that is used to update the MBR or first sector of the partition with the appropriate booting information. Type the full path and name of the file.

Answer: /etc/lilo.conf

QUESTION NO: 56

In the /etc/resolv.conf file are entries that describe where DNS queries can resolve names to IP addresses. Given a DNS server with an IP address of 192.168.33.254, type the exact entry that should appear in this file.

Answer: nameserver 192.168.33.254

QUESTION NO: 57

Your IP address is 170.35.13.28 and your network mask is 255.255.255.192. What host IP address is NOT a part of your local subnet?

- A. 170.35.13.33
- B. 170.35.13.88
- C. 170.35.13.62
- D. 170.35.13.55

Type in just the letter of the answer.

Answer: B

Alternative correct answer: b

QUESTION NO: 58

Type in the simplest command to display the previous and current run level?

Answer: runlevel

QUESTION NO: 59

When booting your system, you beleive you saw an error message go by too quickly to see. Type in the command that will show the last system bootup messages.

Answer: dmesg

QUESTION NO: 60

You are in run level 5 and wish to change to run level 1. Type in the simplest command to do this?

Answer: init 1

Alternative correct answers:

init s

init S

QUESTION NO: 61

The dmesg command outputs information from which file, inlcude full path?

Answer: /var/log/dmesg

QUESTION NO: 62

Which process has a PID of 1. Type in the process name?

Answer: init

QUESTION NO: 63

What is the name of the file and location that governs what run level is to be booted to on startup. Give full path and file name

Answer: /etc/inittab

QUESTION NO: 64

You wish to list out in text all the daemons running and stopped on your system for all run levels. Type in the simplest command

Answer: chkconfig --list

QUESTION NO: 65

You wish to change the daemons that start at a run level 3. Type in the command that would give a text menu based application to set the daemons for this runlevel

Answer: ntsysv --level 3

QUESTION NO: 66

You wish to add the user king to the system including his home directory. Type in the simplest command to do this including switches

Answer: useradd -m king

QUESTION NO: 67

You wish to remove the user stef from the system, including his home directories. Type in the simplest command to do this?

Answer: userdel -r stef

QUESTION NO: 68

User rick has been suspended from your company and you wish to lock his account to stop anyone using it. Type in the simplest command to do this.

Answer: usermod rick -L

Alternative correct answer: passwd -l rick

QUESTION NO: 69

User king has been exiled to the marketing department who has a group name mktg. You now wish to change the primary group for the user king to the mktg group. Type in the simplest command to do this?

Answer: usermod -g mktg king

QUESTION NO: 70

Your user matt has forgotten his passwd and you wish to reset it. Type in the command line to change his password. You are currently logged in as root.

Answer: passwd matt

QUESTION NO: 71

What is the full path and file name of the file that contains the configuration files for system logging? Type in full path and file name.

Answer: /etc/syslog.conf

QUESTION NO: 72

You wish to list the contents of your crontab. Type in the simplest command to do this.

Answer: crontab -l

QUESTION NO: 73

You wish to make changes to your crontab entry. Type in the simplest command to make this change?

Answer: crontab -e

QUESTION NO: 74

You wish to archive and compress all the files in your home directory starting with the word projects into a file called myprojects.tar.gz. You are currently in your home directory. Type in the command that would do this?

Answer: tar -czf myprojects.tar.gz projects*

Alternative correct answers:

tar czf myprojects.tar.gz projects*

tar -zcf myprojects.tar.gz projects*

tar zcf myprojects.tar.gz projects*

QUESTION NO: 75

You have a tarball called myprojects.tar.gz and you wish to view the permissions and ownership of its contents without unpacking it. Type in the simplest command to do this.

Answer: tar -tzvf myprojects.tar.gz

Alternative correct answers:

tar tvzf myprojects.tar.gz

tar zvtf myprojects.tar.gz

tar ztvf myprojects.tar.gz

QUESTION NO: 76

Type in the command to list your current kernel version, including any switches.

Answer: uname -a

Alternative correct answer: uname -r

QUESTION NO: 77

You wish to install the module fat.o into the kernel. Type in the simplest command to do this. Assume there are no dependencies for this module.

Answer: insmod fat

QUESTION NO: 78

You wish to remove a module from the kernel called fat. Type in the simplest command to do this. Assume this module has no dependencies.

Answer: rmmod fat

QUESTION NO: 79

Type in the simplest command to list all loaded modules?

Answer: lsmod

QUESTION NO: 80

You wish to get information on a module called msdos.o. Type in the simplest command that would list all information including author and description for the module.

Answer: modinfo msdos

QUESTION NO: 81

You have a module called msdos.o which has a dependency on fat.o. What single command will load msdos.o and its dependant fat.o module in one command line?

Answer: modprobe msdos

QUESTION NO: 82

Type in the simplest command, including any switches, to rebuild the modules.dep file after you have made changes to the modules.conf file.

Answer: depmod -a

QUESTION NO: 83

You are using X and wish to build a new kernel. What X tool would you use to build the .config file. Type in just the command, not switches.

Answer: make xconfig

QUESTION NO: 84

You have made changes to your /etc/lilo.conf file. Type in the simplest command that will reload the configuration to the MBR.

Answer: lilo

QUESTION NO: 85

Type in the command to compile a kernel image with normal compression.

Answer: make zImage

QUESTION NO: 86

Type the command to check the syntax and contents of the smb.conf file.

Answer: testparm

QUESTION NO: 87

Type in the command to monitor connections to Samba.

Answer: smbstatus

QUESTION NO: 88

Type in the name and full path to the network configuration file that defines the search order for name resolution.

Answer: /etc/nsswitch.conf

QUESTION NO: 89

Type in the name of the file including path of the static host name to IP address configuration file.

Answer: /etc/hosts

QUESTION NO: 90

Type in the name and full path to the config file that contains the IP address of DNS servers for hostname resolution.

Answer: /etc/resolv.conf

QUESTION NO: 91

You need to access the site for HOWTO's, Guides and mini HOWTO's. Type in the full URL as it would appear in any browser, including the protocol.

Answer: <http://www.linuxdoc.org>

Alternative correct answer: <http://www.tldp.org>

QUESTION NO: 92

Type in the command that is equivalent to man -k.

Answer: apropos

QUESTION NO: 93

Type in the command that is equivalent to man -f.

Answer: whatis

QUESTION NO: 94

You wish to restart the network daemon on a Redhat Server. Type in the command and any arguments that to accomplish this without using any absolutes pathnames.

Answer: service network restart

QUESTION NO: 95

You wish to restart both Samba daemons. Type in the command and any arguments that to accomplish this without using any absolutes pathnames.

Answer: service smb restart

QUESTION NO: 96

Type in the file and full path to the configuration file for the Sytem logging daemons.

Answer: /etc/syslog.conf

QUESTION NO: 97

You have just downloaded an application called rdesktop from the internet. The file downloaded is named rdesktop.tar.gz.

Type in the simplest command to decompress and untar this file into the current directory.

Answer: tar -zxf rdesktop.tar.gz

Alternative correct answer: tar xzf rdesktop.tar.gz

QUESTION NO: 98

Type in the full path and name of the global environment and startup program configuration file. This file typically contains the PATH, umask and ulimit system wide settings.

Answer: /etc/profile

QUESTION NO: 99

A user wishes to modify his Environment variable PATH, What file should you tell him to edit in his home directory. Give filename only, no path.

Answer: .bash_profile

QUESTION NO: 100

Type in the name of the samba daemon that is responsible for WINS names resolution

Answer: nmbd

QUESTION NO: 101

Type in the name of the samba daemon that is responsible for printer and file sharing?

Answer: smb

QUESTION NO: 102

Type in the name of the file including full path that holds contains a daily message viewed by users when they log in?

Answer: /etc/motd

QUESTION NO: 103

Type in the name of file and full path to the file that holds a message for remote users about possible system outages.

Answer: /etc/issue.net

QUESTION NO: 104

You wish to change you network settings permanently using a text/graphical tool. Type in the command to start this tool?

Answer: netconfig

QUESTION NO: 105

What is the command to check the syntax of your /etc/inetd.conf?

Answer: tcpdchk

QUESTION NO: 106

What command would be used to check the gpg signature on a downloaded source file? Type just the name of the command.

Answer: gpg

QUESTION NO: 107

What command was typed in to produce the output shown below. The entries shown are the full output of the command, less the actual command.

Type the command and the options to reproduce similar output.

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	394	0.0	0.0	1200	444	tty1	S	01:05	0:00	/sbin/getty 38400 tty1
root	396	0.0	0.0	1200	444	tty3	S	01:05	0:00	/sbin/getty 38400 tty3
root	397	0.0	0.0	1200	444	tty4	S	01:05	0:00	/sbin/getty 38400 tty4
root	398	0.0	0.0	1200	444	tty5	S	01:05	0:00	/sbin/getty 38400 tty5
root	399	0.0	0.0	1200	444	tty6	S	01:05	0:00	/sbin/getty 38400 tty6
root	423	0.0	0.0	1200	444	tty2	S	01:06	0:00	/sbin/getty 38400 tty2
root	426	0.2	0.3	2880	1964	pts/0	S	01:07	0:00	-bash

Answer: ps -au

QUESTION NO: 108

You wish to execute the ls command but it appears to be aliased. What is the easiest way of execute the original ls command without the alias?

Answer: \ls

Note 1: Answers to the unanswered questions will be provided shortly. First customer, if any, faster than the TestKing team in proving the answers will receive credit:

- for each answer provided
- special credit for all unanswered questions

Send answers to feedback@testking.com.

Note 2:

Section A has 160 questions

Section B has 108 questions.

The total number of questions is 268.