



117-101

LPI 101 General Linux, Part I

Version 4.0

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Note 2:

Section A contains 236 questions

Section B contains 94 questions

The total number of questions is 330.

Section A

QUESTION NO: 1

What option is used with the useradd command to specify the user's home directory?

- A. -d
- B. -h
- C. -u
- D. -a

Answer: A

QUESTION NO: 2

What switch is used with the usermod command to change a user's secondary groups?

- A. -G
- B. -group
- C. -d
- D. -U

Answer: A

QUESTION NO: 3

Do changes to the inittab file require a reboot in order to take effect?

- A. No

B. Yes

Answer: A

QUESTION NO: 4

You want to repeat the last command you entered. How would you do this?

- A. #
- B. !!
- C. #l
- D. ##

Answer: B

QUESTION NO: 5

What option can be used with the shutdown command to cancel a pending shutdown?

- A. shutdown -c
- B. shutdown -x
- C. shutdown -n
- D. shutdown -u

Answer: A

QUESTION NO: 6

Which of the following are required in the /etc/passwd file when creating a user account? (Choose all that apply)

- A. login name
- B. userid
- C. default group
- D. password age
- E. minimum password length

Answer: A, B, C

QUESTION NO: 7

You have just added the following line to your syslog.conf file:
lpr.info /dev/console. But, line printer messages are not being sent to the console.
What is most likely the problem?

- A. after modifying the syslog.conf file, the syslog daemon needs to be restarted.
- B. the entry is formatted incorrectly
- C. the syslog daemon reads its configuration information from the syslogd file

Answer: A

QUESTION NO: 8

What run level represents basic multi-user?

- A. 2
- B. 0
- C. 1
- D. 5

Answer: A

QUESTION NO: 9

What command be used to find the systems previous run level?

- A. runlevel
- B. level
- C. rlevel previous
- D. show level previous

Answer: A

QUESTION NO: 10

What syslog.conf facility represents user authentication processes?

- A. auth
- B. proc
- C. user
- D. login

Answer: A

QUESTION NO: 11

What syslog.conf facility represents the cron daemon?

- A. crond
- B. daemon
- C. cron
- D. crontab

Answer: C

QUESTION NO: 12

Which of the following syslog identifiers represents the highest priority?

- A. notice
- B. warning
- C. error
- D. critical

Answer: D

QUESTION NO: 13

Which of the following switches can be used with the tar command to find out the difference between two tar files?

- A. -c
- B. -v
- C. -d
- D. -t

Answer: C

QUESTION NO: 14

You want to add files to a previously created tar file. You want to replace existing files with newer files, how can you do this?

- A. Use the append command
- B. Use the tar command with the -t switch
- C. Use the add command
- D. Use the tar command with the -u switch

Answer: D

QUESTION NO: 15

What syslog.conf facility represents kernel processes?

- A. user
- B. proc
- C. daemon
- D. kern

Answer: D

QUESTION NO: 16

You want to view a listing of previously entered commands. What command would you use?

- A. hist
- B. histfile
- C. showbuff
- D. history

Answer: D

QUESTION NO: 17

Which of the following syslog identifiers represents the highest priority?

- A. alert
- B. error
- C. critical
- D. emerg

Answer: D

QUESTION NO: 18

You want to uninstall lilo. Which of the following would you do to accomplish this?

- A. lilo -u
- B. remove lilo
- C. uninstall lilo
- D. lilo -r

Answer: A

QUESTION NO: 19

Linux is a(n) _____ operating system, meaning the source code is freely available.

- A. Open sourced
- B. User licensed
- C. Closed source
- D. Open binary

Answer: A

QUESTION NO: 20

DNS provides _____ to IP address mappings.

- A. NETBIOS name
- B. host name
- C. MAC address

Answer: B

QUESTION NO: 21

You want there to be 3 grace days after a password expires before an account becomes disabled. How would you do this?

- A. Use the useradd command with the -f switch
- B. Check the delay option in user admin

- C. Edit the user's user.conf file
- D. Use the useradd command with the -d switch

Answer: A

QUESTION NO: 22

You had a contractor come into your company. You originally set his account to expire after thirty days. You now need to change this. How can you do this?

- A. usermod -e
- B. usermod -a
- C. usermod -x
- D. usermod -d

Answer: A

QUESTION NO: 23

You want to have the process /etc/myprocess run when the system enters run level 3. Which of the following inittab entries would accomplish this?

- A. 5:3:once:/etc/myprocess
- B. 3:4:once:/etc/myprocess
- C. once:3:4:/etc/myprocess
- D. once:5:3:/etc/myprocess

Answer: A

QUESTION NO: 24

What option can be used with the shutdown command to send a warning message alerting users that the system will be shut down?

- A. shutdown -k
- B. shutdown -w
- C. shutdown -a
- D. shutdown -c

Answer: A

QUESTION NO: 25

Which of the following syslog.conf entries would cause kernel error messages to be sent to the system console?

- A. kern warning console
- B. kern.error console
- C. kern.warning /dev/console
- D. kern error console

Answer: C

QUESTION NO: 26

What run level represents multi-user?

- A. 3
- B. 0
- C. 1
- D. 5

Answer: A

QUESTION NO: 27

What syslog.conf facility represents miscellaneous daemons?

- A. misc
- B. proc
- C. kern
- D. daemon

Answer: D

QUESTION NO: 28

What syslog.conf facility represents Unix to Unix copy?

- A. ucp
- B. copy
- C. uucp

D. uuc

Answer: C

QUESTION NO: 29

Which of the following syslog identifiers represents the highest priority?

- A. info
- B. warning
- C. notice

Answer: B

QUESTION NO: 30

You want to add information to a previously created tar file. How would you do this?

- A. Use the tar command with the -a switch
- B. Use the append command
- C. Use the add command
- D. Use the tar command with the -r switch

Answer: D

QUESTION NO: 31

What syslog.conf facility represents user processes?

- A. auth
- B. proc
- C. user
- D. u

Answer: C

QUESTION NO: 32

What command can be used to print out system boot messages?

- A. bootm
- B. bmsg
- C. messages
- D. dmesg

Answer: D

QUESTION NO: 33

You want to set a 30 second delay before your system boots to the default kernel. Which of the following command lines would do this?

- A. lilo -t 30
- B. lilo -d 30
- C. lilo delay 30
- D. lilo 30

Answer: B

QUESTION NO: 34

What command can be used to show all variables?

- A. set
- B. varlist
- C. show var
- D. show

Answer: A

QUESTION NO: 35

What option is used with the useradd command to specify the user's user id?

- A. -u
- B. -s
- C. -ui
- D. -id

Answer: A

QUESTION NO: 36

You are adding a new user. You want to create the user's home directory only if the directory does not exist. Which of the following would accomplish this?

- A. useradd -m
- B. useradd -h -y
- C. useradd -u
- D. useradd -h

Answer: A

QUESTION NO: 37

Which of the following can be used to switch your system to run level 1?

- A. init 1
- B. inittab 1
- C. rlevel 1
- D. level 1

Answer: A

QUESTION NO: 38

You want to do a system shutdown, but you don't want the shutdown to occur immediately. You want the system to wait 60 seconds before doing the shutdown.

What option can be used with the shutdown command to wait 60 seconds before starting the shutdown?

- A. shutdown -t 60
- B. shutdown -w 1
- C. shutdown -c 60
- D. shutdown -t 1

Answer: A

QUESTION NO: 39

What run level represents administration mode?

- A. 0
- B. 1
- C. 6
- D. 5

Answer: B

QUESTION NO: 40

What file does init processes use as its control file?

- A. /etc/inittab
- B. /etc/proc
- C. /etc/init
- D. /etc/initproc

Answer: A

QUESTION NO: 41

What syslog.conf facility is used to create timestamps in log files?

- A. mark
- B. stamp
- C. time
- D. tstamp

Answer: A

QUESTION NO: 42

Which of the following commands can be used to create a tar archive file in verbose mode?

- A. tar -v
- B. tar -cvf
- C. tar -c
- D. tar -vf

Answer: B

QUESTION NO: 43

What is the name of the configuration file used by the syslog daemon?

- A. syslog.conf
- B. syslogd
- C. slog.conf
- D. system.conf

Answer: A

QUESTION NO: 44

What lilo.conf parameter will cause the root file system to be mounted read only?

- A. no-write
- B. read
- C. no-right
- D. read-only

Answer: D

QUESTION NO: 45

Which of the following syslog.conf entries would cause kernel error messages to be sent to the system console?

- A. kern warning console
- B. kern.error console
- C. kern.warning /dev/console
- D. kern error console

Answer: C

QUESTION NO: 46

What option is used with the useradd command to specify the user's login shell?

- A. -s
- B. -l
- C. -u
- D. -sh

Answer: A

QUESTION NO: 47

Which of the following can be used to change a user's home directory?

- A. usermod -d
- B. usermod -h
- C. usermod -u
- D. usermod -c

Answer: A

QUESTION NO: 48

You want to have the process /etc/myprocess to run when the system enters run level 2. You want the system to wait until the process completes. Which of the following inittab entries would accomplish this?

- A. 7:2:wait:/etc/myprocess
- B. 2:7:wait:/etc/myprocess
- C. wait:2:7:/etc/myprocess
- D. wait:7:2:/etc/myprocess

Answer: A

QUESTION NO: 49

Which of the following syslog.conf entries would cause kernel warning messages to be sent to the system console?

- A. kern.console warning
- B. kern.warning /dev/console
- C. kern.warning.console
- D. kern warning console

Answer: B

QUESTION NO: 50

You want to repeat a command that began with the letters 'ab'. How would you do this?

- A. !ab
- B. list ab
- C. #ab
- D. show ab

Answer: A

QUESTION NO: 51

What syslog.conf facility represents login processes?

- A. proc
- B. login
- C. user
- D. auth

Answer: D

QUESTION NO: 52

What option can be used with the shutdown command to cancel a pending shutdown?

- A. shutdown -c
- B. shutdown -x
- C. shutdown -n
- D. shutdown -u

Answer: A

QUESTION NO: 53

Which of the following commands can be used to extract a tar file?

- A. tar -vf
- B. tar -xvf
- C. tar -e
- D. tar -v

Answer: B

QUESTION NO: 54

Which of the following Linux packages can be used for web caching?

- A. qmail
- B. squid
- C. apache
- D. samba

Answer: B

QUESTION NO: 55

What lilo.conf parameter is used to specify what device should be mounted as root by default?

- A. root
- B. drive
- C. mntroot
- D. mount

Answer: A

QUESTION NO: 56

You want to find the full path of a certain command. How would you do this?

- A. By using the 'where' command
- B. By using the 'path' command
- C. By using the 'which' command

Answer: C

QUESTION NO: 57

You want a user's account to expire in ten days. What option used with the useradd command will allow you to do this?

- A. -e
- B. -u

- C. -d
- D. -t

Answer: A

QUESTION NO: 58

Which of the following can be used to switch your system to run level 3?

- A. init 3
- B. rlevel 3
- C. level 3
- D. inittab 3

Answer: A

QUESTION NO: 59

Which of the following syslog.conf entries would cause mail error messages to be sent to the system console?

- A. mail error console
- B. mail.err /dev/console
- C. mail. error console
- D. mail.err.console

Answer: B

QUESTION NO: 60

What command can be used to find the current run level?

- A. runlevel
- B. level
- C. show level
- D. rlevel

Answer: A

QUESTION NO: 61

Which of the following syslog identifiers represents the highest priority?

- A. alert
- B. error
- C. critical
- D. emerg

Answer: D

QUESTION NO: 62

What daemon controls the syslog?

- A. syslog
- B. syslogd
- C. logd
- D. sys

Answer: B

QUESTION NO: 63

Which lilo.conf parameter will specify the amount of time the system will wait before booting to the default image?

- A. wait
- B. delay
- C. pause
- D. default

Answer: B

QUESTION NO: 64

What switch is used with the useradd command to specify a user's initial group?

- A. -g
- B. -i
- C. -u
- D. -ig

Answer: A

QUESTION NO: 65

What option can be used with the shutdown command to skip fsck on reboot?

- A. shutdown -f
- B. shutdown -o
- C. shutdown -r
- D. shutdown -s

Answer: A

QUESTION NO: 66

What run level represents a power down?

- A. 5
- B. 0
- C. 1
- D. 4

Answer: B

QUESTION NO: 67

What syslog.conf facility represents the line printer?

- A. ptr
- B. linep
- C. lpr
- D. lprinter

Answer: C

QUESTION NO: 68

Which daemon will send kernel alert messages?

- A. alertrd

- B. smtpd
- C. krnlld
- D. syslogd

Answer: D

QUESTION NO: 69

What syslog.conf facility represents mail processes?

- A. proc
- B. daemon
- C. mail
- D. smtp

Answer: C

QUESTION NO: 70

What syslog.conf facility represents user processes?

- A. auth
- B. proc
- C. user
- D. u

Answer: C

QUESTION NO: 71

What command can be used to cause changes to the inittab file to take effect without a system reboot?

- A. init q
- B. init r
- C. inittab r
- D. inittab q

Answer: A

QUESTION NO: 72

What option can be used with the shutdown command to reboot the system?

- A. shutdown -r
- B. shutdown -y
- C. shutdown -c
- D. shutdown -b

Answer: A

QUESTION NO: 73

What run level represents a system reboot?

- A. 6
- B. 1
- C. 2
- D. 5

Answer: A

QUESTION NO: 74

What syslog.conf facility represents Usenet news?

- A. usenet
- B. news
- C. uunet
- D. net

Answer: B

QUESTION NO: 75

You want to find out what files are contained in a tar file. How would you do this?

- A. Use the tar command with the -t switch
- B. Use the tar command with the -r switch
- C. Use the grep command
- D. Use the find command

Answer: A

QUESTION NO: 76

What syslog.conf facility represents httpd processes?

- A. http
- B. daemon
- C. smtp
- D. proc

Answer: B

QUESTION NO: 77

You want to repeat command number 3 in your history. How would you do this?

- A. repeat 3
- B. !3
- C. show 3
- D. #3

Answer: B

QUESTION NO: 78

What lilo option will list the name and location of available kernels?

- A. -q
- B. -k
- C. -v
- D. -l

Answer: A

QUESTION NO: 79

What lilo.conf parameter is used to specify vga text mode?

- A. vga text
- B. svga
- C. vga

D. vtm

Answer: C

QUESTION NO: 80

You want to set a script to run when your Linux system reboots. What lilo option should you use?

- A. -R
- B. -S
- C. -T
- D. -L

Answer: A

QUESTION NO: 81

What is the configuration file for the xscreensaver?

- A. xscreensaver.conf
- B. .xscreensaver
- C. xsaver.conf
- D. xdm-config

Answer: B

QUESTION NO: 82

What operation of the make utility cannot normally be performed as a normal user?

- A. mrproper
- B. clean
- C. dep
- D. depends
- E. install

Answer: E

QUESTION NO: 83

What is the function of the .Xdefaults file?

- A. Provides the defaults for new users X programs
- B. A default user X profile, used as a template
- C. User customizations for programs
- D. KDE default user configuration file

Answer: C

QUESTION NO: 84

What entry in the X configuration file specifies where the fonts are located for the X system?

- A. Fonts
- B. Files
- C. Fontpath
- D. Devices

Answer: C

QUESTION NO: 85

A user named TessKing needs to execute a system script file. What rights do the user need to execute a script file?

- A. Read, Write and Execute for all
- B. Execute only for user
- C. Read-only for user, Execute for group
- D. Read and Execute in the same permission set

Answer: D

QUESTION NO: 86

What is the entry in the XF86Config file that specifies the fonts are on the local machine? Choose Two.

- A. unix/:-1
- B. unix/:7100
- C. tcp/:45
- D. udp/:80
- E. font/:-1

Answer: A, B

QUESTION NO: 87

What section of the XF86Config file contains the entry to set the path for fonts used?

- A. Fonts
- B. Files
- C. Ttype
- D. ATM
- E. FontPath

Answer: B

QUESTION NO: 88

When a user executes the command "ps ax", what is shown on the console? Choose all that apply.

- A. Process's user-related information
- B. Processes without controlling terminals
- C. Processes used by the XFree86 System
- D. All regular processes
- E. Processes on remote machines

Answer: B, D

QUESTION NO: 89

To change all lower case characters in a file to upper case, pick the correct command.

- A. tr 'a-z' 'A-Z' file
- B. tr [a-z] [A-Z] < file
- C. tr "a-z" "A-Z" file
- D. tr 'a-z' 'A-Z' < file
- E. tr {a-z} {A-Z} > file

Answer: D

QUESTION NO: 90

Which of the following commands will duplicate the contents of the /A directory in the existing and empty /B directory?

- A. mv /A/* /B
- B. mv /A/ /B
- C. mv /A /B
- D. mv /A/* .

Answer: A

QUESTION NO: 91

What will the command "kill -HUP 1354" do?

- A. Kill the process 1354 destructively
- B. Kill the process 1354, allowing cleanup of memory
- C. Restart the process 1354, re-reading it's config files
- D. Restart the process 1354, resetting it's associated modem

Answer: C

QUESTION NO: 92

You need to have all the output from the executable myprog written to a text log named file1.out. This program must not send any output to the console. Which of the commands listed will accomplish this?

- A. myprog > file1.out 2>&1
- B. myprog > file1.out 1>&2
- C. myprog > file1.out 1> /dev/null
- D. myprog 1&2> file1.out
- E. myprog 1> /dev/null > file1.out

Answer: A

QUESTION NO: 93

What is the name of the default XFree86 Font Server?

- A. xfs
- B. xfserver

- C. xfree86fs
- D. Xfs
- E. xfontserver

Answer: A

QUESTION NO: 94

Which of the following are windows managers? Choose all that apply.

- A. Xfce
- B. Afterstep
- C. IceWM
- D. FVWM
- E. BlackBox

Answer: A, B, C; D, E

QUESTION NO: 95

What command will tell you the color depth of your display?

- A. xwininfo
- B. xvidtune
- C. xcd
- D. xcdepth
- E. xvidepth

Answer: A

QUESTION NO: 96

Two directories require different quota for file system usage. The /var/mail directory needs a 20MB quota, and the /home directories require a 40MB quota. What must be true about these directories?

- A. They must exist on Ext3 partitions
- B. They must be on different drives
- C. They must be on different partitions
- D. They must be mounted by the root user

Answer: C

QUESTION NO: 97

On an ext2 partition, what portion is reserved for the root user?

- A. 100 cylinders
- B. No less than 500 blocks
- C. None
- D. 5%
- E. 1/32nd of the total space

Answer: D

QUESTION NO: 98

What are the default permissions for the Red Hat /etc/passwd file?

- A. 644
- B. 640
- C. 400
- D. 641
- E. 440

Answer: A

QUESTION NO: 99

What are the default permissions on the Red Hat /etc/shadow file?

- A. 644
- B. 600
- C. 400
- D. 444
- E. 640

Answer: C

QUESTION NO: 100

What are the default permissions on the Debian /etc/passwd file?

- A. 644
- B. 640
- C. 777
- D. 700
- E. 400

Answer: A

QUESTION NO: 101

What are the default permissions on the Debian /etc/shadow file?

- A. 654
- B. 640
- C. 400
- D. 644
- E. 540

Answer: B

QUESTION NO: 102

Which of the following directories would be the least likely to need backing up? Choose Two.

- A. /usr
- B. /etc
- C. /home
- D. /tmp
- E. /swap

Answer: D, E

QUESTION NO: 103

Which of the following will copy file1.txt to file2.txt? Choose Two.

- A. cat file1.txt > file2.txt
- B. cat file1.txt | file2.txt
- C. cp file1.txt > file2.txt
- D. cp file1.txt file2.txt
- E. cpio < file1.txt > file2.txt

Answer: A, D

QUESTION NO: 104

When you create a new file, the permissions show as 654. What value is the umask likely set at?

- A. 012
- B. 002
- C. 123
- D. 022

Answer: A

QUESTION NO: 105

When you create a new directory, you see the permissions are set to 600. What umask value would cause this to happen?

- A. 177
- B. 066
- C. 244
- D. 155
- E. 333

Answer: A

QUESTION NO: 106

You need to display all files in the current directory that start with a "a" and end with a "v", regardless of their length or use of delimiters. Choose the best answer.

- A. `ls a*v`
- B. `ls a.v`
- C. `ls a-v`
- D. `ls [a-v]`

Answer: A

QUESTION NO: 107

What command with switches will display the disk utilization for all mounted file systems?

- A. df
- B. vmstat
- C. du
- D. top
- E. free

Answer: A

QUESTION NO: 108

Which command will show the number of free and used inodes for your system's mounted file systems?

- A. du -i
- B. df -i
- C. ls -iR /
- D. freeinodes

Answer: B

QUESTION NO: 109

Which of the commands will show you only the middle 10 lines of a 30 line text file named textfile?

- A. head -n 11-20 textfile
- B. head -n 20 textfile | tail
- C. tail -n 11-20
- D. cat textfile | pr -n 11-20
- E. nl -n 11-30 textfile

Answer: B

QUESTION NO: 110

Which command will display in reverse order a file that is numbered from 1 to End of File?

- A. cat file | nl | pr
- B. cat file | nl | tac
- C. cat file | tac | nl
- D. cat file | pr -n | reverse

E. None of the above

Answer: B

QUESTION NO: 111

What command will show the first 10 lines of a file by default?

- A. head
- B. cat
- C. tac
- D. nl
- E. tail

Answer: A

QUESTION NO: 112

What command will show the last 10 lines of a file by default?

- A. tail
- B. head
- C. cat
- D. prstat
- E. ps

Answer: A

QUESTION NO: 113

What is the result of the following command?

```
# cat 'echo "$TESTKING'
```

- a) A syntax error
- b) The value of \$TESTKING
- c) cat followed by the value of \$TESTKING
- d) echo followed by the value of \$TESTKING
- e) echo followed by \$TESTKING

Answer: A

QUESTION NO: 114

What is the result of the command:

```
# kill 9 13459
```

- A. Kill PID 13459 with a signal 15
- B. Kill PID 13459 with a signal 1
- C. Kill PID 13459 with a signal 9
- D. None of the above

Answer: D

QUESTION NO: 115

How can you execute two commands, the second one being executed only if the first returns a nonzero (program execution failed) exit status?

- A. command1 || command2
- B. command1 && command2
- C. command1 \$\$ command2
- D. command1 @@ command2

Answer: A

QUESTION NO: 116

What command will easily convert tabs in files to spaces?

- A. convert
- B. expand
- C. tr
- D. sed
- E. None of the above

Answer: B

QUESTION NO: 117

What does the command "foo < bar | foobar" do?

- A. foo reads bar as stdin, pipes output to foobar
- B. foo and bar are fed to foobar as stdin
- C. foo's output is sent to bar, output is written to foobar
- D. None of the above

Answer: A

QUESTION NO: 118

What will the command "cd ~testking do?

- A. Changes directory to the user testking's home directory
- B. Changes to a directory named testking in the current user's home directory
- C. Changes to directory /etc/testking
- D. Produces a syntax error
- E. None of the above

Answer: A

QUESTION NO: 119

You want to move all files in /dir1 to /dir2 that begin with a and end with v. What is the correct command to do this?

- A. mv /dir1/a*v /dir2
- B. mv -r /dir1/a.v /dir2
- C. move /dir1/a?v /dir2
- D. ls a*v | cp /dir2
- E. mv /dir1/[a-v] /dir2

Answer: A

QUESTION NO: 120

What does the following command's characters do?

```
# cmd > file.out 2>&1
```

- A. Sends the stdout of cmd to file.out
- B. Sends the stdout and stderr of cmd to file.out
- C. Sends the stderr to the bit bucket and stdout of cmd to file.out

D. None of the above

Answer: B

QUESTION NO: 121

Regardless of the version of Linux, which of the following help start and stop services on demand? Select two.

- A. xinetd
- B. inetd
- C. samba
- D. nfs
- E. amd

Answer: A, B

QUESTION NO: 122

What steps need to be performed, to make a new disk accessible to users?

- A. fdisk
- B. mkfs
- C. mount
- D. stat
- E. quotaon

Answer: A, B, C

QUESTION NO: 123

When the system is mounted, all file systems in the /etc/fstab are mounted, except those with what in the option column?

- A. nomount
- B. noauto
- C. noatime
- D. nohup

Answer: B

QUESTION NO: 124

What environment variable will set the path for added libraries?

- A. LD_LIBRARY_PATH
- B. LIBPATH
- C. LPATH
- D. LIB
- E. None of the above

Answer: A

QUESTION NO: 125

What switch will set the foreground color in X?

- A. fg
- B. foreground
- C. xfg
- D. fregnd
- E. None of the above

Answer: A

QUESTION NO: 126

Which of the following best describes the order in which X Window files are executed or read ?

- A. startx -> xinit -> xinitrc -> Xclients
- B. xinit -> startx -> Xclients -> xinitrc
- C. xinitrc -> Xclients -> startx -> xinit
- D. Xclients -> startx -> xinitrc -> xinit

Answer: A

QUESTION NO: 127

Which keystrokes will move the cursor 3 lines down and 4 characters to the right?

- A. 3j4l
- B. 3k4m

- C. 3h4j
- D. 3l4k
- E. 3m4k

Answer: A

QUESTION NO: 128

What two files are used to configure a user's environment that was created with the default options?

- A. ~/.profile, ~/.bashrc
- B. /etc/profile, /bashrc
- C. ~/.bash_profile, ~/.bashrc
- D. /etc/.login, ~/.login
- E. None of the above

Answer: C

QUESTION NO: 129

What file is used to configure the XDM daemon?

- A. xdm-config
- B. xdm.conf
- C. xdmcfg
- D. xdaemon.conf
- E. None of the above

Answer: A

QUESTION NO: 130

The screensize is already configured in X on a system. When started, the screen defaults to a certain size. The user wants to change it, what file should the user edit manually to accomplish this?

- A. /etc/xf86config
- B. /usr/bin/xf68setup
- C. /etc/X11/XF86Config
- D. /etc/screensize

Answer: C

QUESTION NO: 131

When executing a command that produces output to the screen, you get an exit code of 0. Choose the best description of what has happened

- A. The program executed properly
- B. The program encountered an error
- C. The program requires more input
- D. The program has returned standard input
- E. The program terminated with a syntax error

Answer: A

QUESTION NO: 132

Which directory is used to store undelivered user email by default?

- A. /var/spool/sendmail/usermail
- B. /var/spool/mail
- C. /var/spool/mailqueue
- D. /var/spool/sendmail/username
- E. /var/mail/sendmail/username

Answer: B

QUESTION NO: 133

Which utility would be used to verify the checksum of a downloaded archive file?

- A. verify
- B. checksum
- C. md5sum
- D. chkrpm
- E. pkgchk

Answer: C

QUESTION NO: 134

With a Linux 2.2 Kernel-based machine configuration of 133 MHZ, 32 MB RAM and a 1 GB HD, how much swap should be configured?

- A. 512MB
- B. 256MB
- C. 128MB
- D. 64MB
- E. 32MB

Answer: D

QUESTION NO: 135

What is filename including full path, of the file used to configure library path settings for a system?

- A. /usr/lib/lib.so.1
- B. /etc/lib.conf
- C. /etc/ld.so.conf
- D. /usr/lib/modules/modules.conf
- E. None of the above

Answer: C

QUESTION NO: 136

You set a variable's value with the command "export TEST=snuffy" and then after executing the following script file, you type the command "echo \$TEST".

```
scriptfile1
#!/bin/bash
USER=tessking
TEST=$USER
```

What is the variable's value that is returned?

- a) snuffy
- b) tessking
- c) empty
- d) variable undeclared
- e) TEST

Answer: A

QUESTION NO: 137

A directory contains the following files:

```
#ls
ratas  saran  jacaw  cabal  cabin
```

You issue the command "ls | grep .a[^b]a.", what files are returned by the command? Choose all that apply.

- A. ratas
- B. jacaw
- C. saran
- D. cabal
- E. cabin

Answer: A, B, C

QUESTION NO: 138

Which of the following will allow both the commands to execute, regardless of their individual exit status?

- A. command1 | command2
- B. command1 \$ command2
- C. command1 & command2
- D. command1 ; command2
- E. command1 ^ command2

Answer: D

QUESTION NO: 139

Which of the following will cause command2 not to execute if command1 fails?

- A. command1 & command2
- B. command1 && command2
- C. command1 || command2
- D. command1 | command2
- E. command1 ; command2

Answer: B

QUESTION NO: 140

A user needs to search a file for lines that contain the asterisk (*) character. Which grep search command will accomplish this? Choose all that apply.

- A. `grep * textfile`
- B. `grep '*' textfile`
- C. `grep "*" textfile`
- D. `grep \<*> textfile`
- E. `grep "***" textfile`

Answer: A, B, C

QUESTION NO: 141

You have booted a desktop Linux system and logged in. When you type "startx", a mouse error occurs almost immediately. What's the most likely cause of the problem?

- A. a reboot is needed
- B. the gpm malfunctioned and must be reloaded
- C. the wrong mouse protocol is selected
- D. the wrong mouse mode is set
- E. a modeline is incorrectly set

Answer: C

QUESTION NO: 142

What line in the /etc/inittab file sets the runlevel a machine will enter when a graphical login is desired?

- A. `id:5:initdefault`
- B. `si:5:sysinit:/etc/rc.d/rc.sysinit`
- C. `x:5:respawn:/etc/X11/prefdm -nodaemon`
- D. `d) # 5 - X11`

Answer: A

QUESTION NO: 143

What environment variable is used to remotely display another machines X session on yours?

- A. DISPLAY
- B. XSESSION
- C. SCREEN
- D. TTY
- E. None of the above

Answer: A

QUESTION NO: 144

You want to configure user quotas for the /home filesystem. You've installed the quota packages. What else needs to be done to enable the filesystem's quotas? Choose all that apply.

- A. add usrquota to the /etc/fstab options column
- B. run the quotaon command
- C. run the quotacheck -avug command
- D. edit the user's quota settings
- E. remount the file system

Answer: A, B, C, D, E

QUESTION NO: 145

What file should you edit to exclude directories from being indexed by the slocate command?

- A. /etc/slocatedb.conf
- B. /etc/default/slocate
- C. /etc/slocated.conf
- D. /etc/updatedb.conf
- E. /etc/sysconfig/updatedb.conf

Answer: D

QUESTION NO: 146

You need to create a symbolic link in the current user's home directory named testking to the file /data/foobar. Choose the command that will accomplish this.

- A. link .testking /data/foobar
- B. ln /data/foobar \$HOME/testking

- C. `ln -s /data/foobar ~/testking`
- D. `file --link ./testking /data/foobar`
- E. None of the above

Answer: C

QUESTION NO: 147

Which of the following file system types causes the least impact when upgrading an Ext2 file system?

- A. Ext3
- B. ReiserFS
- C. JFS
- D. XFS
- E. VFS

Answer: A

QUESTION NO: 148

What command can find the program file "bar" and it's associated man pages and any existing source files, but not return all files that have "bar" in the command name or path?

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

Answer: A

QUESTION NO: 149

According to the Filesystem Heirarchy Standard, what directory trees are considered optional on a system's root filesystem? Choose all that apply.

- A. `/mnt`
- B. `/root`
- C. `/usr`
- D. `/var`
- E. `/opt`

Answer: C, D, E

QUESTION NO: 150

What command with options will show the currently mounted filesystems usage in kilobytes?

- A. df -k
- B. df -h
- C. du -k
- D. du -h
- E. du -s

Answer: A

QUESTION NO: 151

You need to alter the permissions on the directory /home/mrking and all it's contents to match the following permissions.

`drwxr--r--`

Which of these commands with options and arguments will accomplish this? Choose two.

- A. `chmod 0744 /home/mrking -R`
- B. `chmod 744 /home/mrking/*`
- C. `chmod -R u=rwx,g=r,o=r /home/mrking`
- D. `chmod u+rwx,g+r,o+r /home/mrking`

Answer: A, C

QUESTION NO: 152

What is the simplest and most direct command to check the integrity of an Ext2 file system?

- A. `fsck.ext2`
- B. `fsck -t ext2`
- C. `e2fsck`
- D. `ext2fsck`
- E. None of the above

Answer: C

QUESTION NO: 153

If a file is symlinked to with a link name of file2, and that file is deleted, what happens to the contents of the file?

- A. The contents still exist, and can be reached with file2
- B. The contents are gone, leaving file2 orphaned
- C. The file can be retrieved with undelete -f file2
- D. File2 is another name to the original, and the contents are still there

Answer: B

QUESTION NO: 154

Which utility on a system will report any excessive file system space remaining with very few inodes still available?

- A. fsck
- B. debugfs
- C. sync
- D. showfiles
- E. softlinks

Answer: A

QUESTION NO: 155

What options will allow a normal user to mount and then unmount a file system without needing assistance from the root user?

- A. user and users in the /etc/fstab
- B. user and users in the /etc/default/
- C. user and users in the /etc/vfstab
- D. user and users in the /etc/mnttab
- E. usrquota and grpquota in the /etc/fstab

Answer: A

QUESTION NO: 156

What two things does the /etc/fstab file contain references to?

- A. File Systems
- B. Mount Points
- C. User Options
- D. File System Defaults
- E. File System Permissions

Answer: A, B

QUESTION NO: 157

Which of the following are executed ONLY during a Login session

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

Answer: A, D

QUESTION NO: 158

Which of the following are executed during a non-login shell?

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

Answer: B, D, E

QUESTION NO: 159

In which file are you likely to find the global setting for the umask and ulimit?

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

E. ~/.bash_profile

Answer: A

QUESTION NO: 160

In which file are you likely to find the settings for umask, path, and ulimit on a per user basis?

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

Answer: C

QUESTION NO: 161

Which of the following is true about the XF86Config file. Select all that apply?

- A. Can set the screen resolution settings
- B. Can set the bits per pixel (colour depth) setting
- C. Includes keyboard and mouse selections
- D. Includes information on which window manager to run
- E. Contains information on where fonts are located

Answer: A, B, C, E

QUESTION NO: 162

What is the correct syntax to remove testking entirely from a Debian System including configuration files?

- A. dpkg -r testking
- B. dpkg --remove testking
- C. dpkg --kill testking
- D. dpkg -R testking
- E. dpkg --purge testking

Answer: E

QUESTION NO: 163

How do you use dpkg to verify the status of an installed package testkingpkg? Select two.

- a) dpkg -s testkingpkg
- b) dpkg -S testkingpkg
- c) dpkg -stat testkingpkg
- d) dpkg --stat testkingpkg
- e) dpkg --status testkingpkg

Answer: A, E

QUESTION NO: 164

Which pair of dpkg options are equivalent and what do they do?

- A. -C and --configure they reconfigure an unpackaged package
- B. -C and --clear-avail they erase existing information about what packages are available
- C. -A and --audit they update information about what packages are available
- D. -C and --audit they provide resource consumption information on installed packages
- E. -C and --audit they search for partially installed packages

Answer: E

QUESTION NO: 165

Which is a valid /etc/fstab entry

- A. fs1:/proc /mnt/fs1 nfs defaults 9 9
- B. /mnt/fs1 fs1:/proc nfs defaults 0 0
- C. fs1:/home /mnt/fs1 nfs defaults 0 0
- D. /mnt/home fs1:/home nfs defaults 0 0
- E. /home:fs1 /mnt/fs1 nfs defaults 0 0

Answer: C

QUESTION NO: 166

What will happen when the following command is issued?

```
rpm -Uvh file
```

- A. The rpm file will be verified

- B. The installed package will be upgraded with the package in file, with verbose output
- C. The installed package may be upgraded with the package called file, giving verbose output and hash marks to show installation
- D. An error will occur as a package specifier was not included in the command line

Answer: C

QUESTION NO: 167

Which of the following modems cannot be used on linux systems

- A. ISDN TA
- B. Cable modems
- C. Analogue modems
- D. PCI modems
- E. Win modems

Answer: E

QUESTION NO: 168

When partitioning a disk with more than 1024 cylinders, which of the following could affect the systems ability to boot?

- A. Location of LILO on disk
- B. Location of /boot on disk
- C. Location /var on disk
- D. Disk transfer rate
- E. Disk seek time

Answer: B

QUESTION NO: 169

What happens when ldconfig is executed?

- A. The binary index file (cache) of library locations is rebuilt
- B. The text index file of library locations is rebuilt
- C. make is run to rebuild the libraries who's source code has changed
- D. The disk is scanned for libraries to include in the index
- E. Nothing, unless the libraries have been recompiled since ldconfig was last run.

Answer: A

QUESTION NO: 170

Where is the quota information for users of volume /home stored?

- A. /etc/sysconfig/quota/quota.home.user
- B. /etc/quota/quota.home.user
- C. /home/quota.home.user
- D. /home/quota.user
- E. /home/quota.home.group

Answer: D

QUESTION NO: 171

What is the purpose of setting the SUID? Choose all that apply.

- A. Allows any user to run a executable program with the permissions of the owner of the program
- B. Allows any user to run a program with the permissions of the group of the program
- C. Everyone can edit the files that are created but only root and owner can delete them.
- D. To keep programs that are needed constantly in non-swappable RAM
- E. To cause a program opened in one X virtual pane to follow the user's focus to other panes

Answer: A, D

QUESTION NO: 172

How can you set the SGID on a file called testkingexaminator?

- A. chmod u+s testkingexaminator
- B. chmod g+s testkingexaminator
- C. chmod o+s testkingexaminator
- D. chmod u+t testkingexaminator

Answer: B

QUESTION NO: 173

How many devices excluding the controller can be on an 8 bit SCSI card?

- A. 6
- B. 8
- C. 9
- D. 16
- E. 7

Answer: E

QUESTION NO: 174

How many devices can be installed on a 16 bit SCSI excluding the controller?

- A. 8
- B. 10
- C. 12
- D. 16
- E. 15

Answer: E

QUESTION NO: 175

Which steps are necessary to compile and install a source code program? Choose the least amount possible.

- A. Extract source
- B. edit makefile
- C. ./configure
- D. make
- E. make install

Answer: A, C, D, E

QUESTION NO: 176

Which command cannot normally be executed by a non-root user when compiling an application?

- A. make
- B. makefile
- C. ./configure
- D. make install

Answer: D

QUESTION NO: 177

What is the correct format for a proper command in the shell?

- A. Option Argument Command
- B. Command Argument Option
- C. Command Option Argument

Answer: C

QUESTION NO: 178

What is the result of the following command?

`command > file1.out 2>&1`

- A. Redirects stderr to file1.out
- B. Redirects the stderr to the same location as the stdout.
- C. Redirects stdout to the screen and stderr to file.out
- D. Redirects all the output to the same location as the stderr

Answer: B

QUESTION NO: 179

What will the command "kill -HUP 1354" do? Select all the apply

- A. The same as kill -9 1354
- B. The same as kill 15 1354
- C. The same as kill -15 1354
- D. The same as kill -SIGHUP 1354
- E. The same as kill -1 1354

Answer: D, E

QUESTION NO: 180

What would the command "rpm --allmatches rpmname" do?

- A. Remove all packages named allmatches
- B. Remove all packages with the package name rpmname
- C. Remove all packages regardless of name

Answer: B

QUESTION NO: 181

Which command will output the exit status of the previous command (a 1 or a 0)?

- A. echo \$?
- B. echo \$1
- C. echo \$EXIT
- D. exitstatus

Answer: A

QUESTION NO: 182

Select all the ways of exiting and saving a vi session.

- A. :wq
- B. :w
- C. :ZZ
- D. Shift ZZ
- E. :x
- F. :exit

Answer: A, D, E

QUESTION NO: 183

You have an old computer that you have set up to connect to the Internet with an external 56K modem but are unable to establish a connection of greater than 9600bps.

What is the most likely source of the problem?

- A. Winnmodems are not supported in Linux.
- B. The UART is not capable of handling more than 9600bps.
- C. The serial port is not recognized by the kernel.
- D. The modem is not configured to use the correct IRQ.

Answer:

QUESTION NO: 184

Which of these commands will list the shared libraries used by the KDE application kpanel?

- A. ldd kpanel
- B. /usr/lib kpanel
- C. kdd /opt/kde/bin/kpanel
- D. ldd /opt/kde/bin/kpanel
- E. ldconfig /opt/kde/bin/kpanel

Answer:

QUESTION NO: 185

Which utility can you call to find out what shared libraries a program is using?

- A. ldd
- B. ld.so
- C. modprobe
- D. ldconfig
- E. ld-linux.so

Answer:

QUESTION NO: 186

You are building a server that will undergo many hardware and operating system upgrades. The server is the file server for all users on your 100 user network.

Which directory should have its own mountpoint and/or hard drive?

- A. /boot
- B. /sbin
- C. /home
- D. /etc

Answer:

QUESTION NO: 187

Which of the following is a typical rule for allocating swap space for a Linux installation?

- A. Use 25% of available drive space for a swap partition.
- B. Use 10% of available drive space for a swap partition.
- C. Use 50% of total RAM for the size of a swap partition.
- D. Use 200% of total RAM for the size of a swap partition.
- E. Use 128MB on each hard disk in the system for swap.

Answer:

QUESTION NO: 188

You have a system that uses LILO from the Master Boot Record. You have just recompiled a new kernel. You already have a backup kernel setup to boot from LILO so you overwrite your existing kernel with new kernel image using the same name and location. When you reboot, you find the system does not boot.

What is likely to be the problem?

- A. The new kernel image is above the 1024 cylinder and therefore cannot be loaded.
- B. You did not update your `/etc/lilo.conf` file to boot the new kernel.
- C. You need to boot the new kernel with a boot floppy to restore the old kernel.
- D. You reboot before re-installing LILO in the Master Boot Record.

Answer:

QUESTION NO: 189

You have compiled a program from source successfully, but you are getting permission errors when you try to install the binaries.

What is most likely the problem?

- A. Both `rpm` and `dpkg` need to be run as root.
- B. You have the wrong permissions set on the `/usr/bin` directory.
- C. The wrong prefix was used during the configuration or was not properly defined for the compile stage.
- D. The binaries need to be installed into directories that need root privileges to write to them.

Answer:

QUESTION NO: 190

Which of the following contains typical targets of a Makefile?

- A. Prefix, exec_prefix, bindir, mandir
- B. CFLAGS, CPPFLAGS, LIBS, LDFLAGS
- C. PATHS, DESTDIR, MANPAGES, CONFIGFILES
- D. clean, test, install, uninstall

Answer:

QUESTION NO: 191

You want to examine the changelog for the installed package “postfix”. Which command will display the changelog?

- A. rpm -Vc postfix
- B. rpm -qpil postfix
- C. rpm --changelog postfix
- D. rpm -q --changelog postfix
- E. rpm -qa --changelog postfix

Answer:

QUESTION NO: 192

Which RPM command would produce the following output

```
Name           : xwhois           Relocations: (not relocatable)
Version        : 0.3.7            Vendor: Tess King
Release        : 1                Build Data: Fri 06 Aug 1999 09:29:07 AM EDT
Install date: (not installed) Build Host: desktop.infohvy.com
Group          : Application/Internet Source RPM: (none)
Size           : 74057            License: GPL
Packager       : Ryan Weaver <ryanv@testking.com>
URL            : http://www.goatnet.ml.org/software.html
Summary        : X Windows Whois Tool
```

Description: xwhois is a small and fast query tool for the whois service. (rfc954)

xwhois-0.3.7.tar.gz

xwhois.spec

A. rpm -qpil xwhois-0.3.7-1.src-rpm

Answer:

QUESTION NO: 193

After a minor security incident you are instructed by your lead sys-admin to verify the RPM's installed on a running system.

Which command will create a complete report which you can analyze for changes which may be security related?

- A. rpm -Va >report
- B. rpm -Qavy >report
- C. rpm -Vqt --nomd5 >report
- D. rpm --checkfiles >report
- E. rpm -Va --nofiles >report

Answer:

QUESTION NO: 194

Your lead sysadmin has asked you to add a second NIC to a Linux machine.

Which of the following commands would be best to determine which interrupts are currently in use on this machine?

- A. cat /proc/ioports
- B. cat /proc/interrupts
- C. cat /proc/memoryinfo
- D. which interrupts
- E. tail /var/log/messages

Answer:

QUESTION NO: 195

You need to know where all the configuration files for the installed package named “postfix” are located.

Assuming it was installed with rpm, which command will list this information for you?

- A. rpm -qc postfix
- B. rpm -Vc postfix
- C. prm --config postfix
- D. rpm -listconfig postfix
- E. prm -qa --config postfix

Answer:

QUESTION NO: 196

You are about to install a new program on an RPM based Linux system.

Which of the following would be the best way to accomplish this?

- A. Get the source code in a tarball and install from that source.
- B. Get a source RPM and use **rpm** to install it.
- C. Use **rpm** to install the program’s binaries from an RPM package.
- D. Use **cpi** to extract the binaries from a source RPM and use **rpm** to install those sources.

Answer:

QUESTION NO: 197

You have just typed the following three commands and got the following output:

```
prompt> echo $PATH

/usr/bin:/usr/local/bin:usr/sbin:opt/kde/bin

prompt> pwd

/home/anna/games

promt> ls

game1 game2 game3
```

You want to run the program game1, but get the response that it is not found.

What did you forget to do?

- A. To type `./game1` rather than `game1`.
- B. To switch the directory `/home/anna` first.
- C. To unset your PATH before running the program.
- D. To set execution permissions for the program `game1`.

Answer:

QUESTION NO: 198

You have a file with the following contents:

allan

bart

ceasar

alicia

beatrice

cecilia

What single command could you use to list the file contents in reverse order? (Include only the command without options or arguments)

Answer:

QUESTION NO: 199

After starting vi to edit an existing text file, you press 'A' (shift +a). This will let you:

- A. Insert text at the end of the current file.
- B. Insert text at the end of the current sentence.
- C. Insert text after your current cursor position.
- D. Insert text at the end of the file.
- E. Insert text at the end of your current paragraph.

Answer:

QUESTION NO: 200

You are writing text in vi. Now you want to save your changes and exit.
Which two sequence of inputs will accomplish this?

- A. esc XX
- B. ctrl :w!
- C. esc zz
- D. esc :wq!
- E. ctrl XX

Answer:

QUESTION NO: 201

Which of these commands would report how many total accounts (including special accounts) there are?

- A. count /etc/passwd
- B. nl /etc/passwd | head
- C. wc --users /etc/passwd
- D. wc --lines /etc/passwd
- E. expand --lines /etc/passwd

Answer:

QUESTION NO: 202

What command could be used to get a hierarchical view of all the processes running on the system without requiring your to provide any switches or options?

Answer:

QUESTION NO: 203

You run the following commands:

```
[user@prompt]$ nice -n 1 program1
[user@prompt]$ nice -n 5 program2
[user@prompt]$ nice -n 10 program3
```

Which of the program started will have the highest priority?

- A. program1
- B. program2
- C. program3

Answer:

QUESTION NO: 204

You have a SCSI system with five SCSI hard disks. You add another SCSI har disk to your system and the system no longer boot, nor is the bootloader loaded.

What is the most likely cause of this problem?

- A. There are too many devices on the chain.
- B. The boot disk needs a different SCSI ID,
- C. The new disk is conflicting with the SCSI adapter.
- D. The new SCSI drive is conflicting with the IDE boot drive.
- E. The new SCSI drive needs a different SCSI ID.

Answer:

QUESTION NO: 205

You want to redirect the last 30 lines of a file to another file.

What single command would best fit your needs?

Answer:

QUESTION NO: 206

What symbol can be placed at the end of a line to indicate that the command continues on the next line?

- A. /
- B. \
- C. ;
- D. |
- E. :

Answer:

QUESTION NO: 207

Which two programs will allow you to change the priority of a program already running? (Choose two)

- A. top
- B. nice
- C. niceit
- D. renice
- E. chnice

Answer:

QUESTION NO: 208

Which command removes all subdirectories in /tmp, regardless of whether they are non-existent or in use?

- A. del /tmp/*
- B. m -rf /tmp
- C. rm -Ra /tmp/*
- D. rm -rf /tmp/*
- E. delete /tmp/*,*

Answer:

QUESTION NO: 209

The _____ command is typically used to search files for a specified string.

Answer:

QUESTION NO: 210

What utility would use to remove/display columns from each line of a file?

- A. pwd
- B. col
- C. cut
- D. tail

E. extract

Answer:

QUESTION NO: 211

After executing the following command line, what will be the contents of the file `myout.txt`?

```
echo \"test king\" | cat > myout.txt
```

- A. Test kinG
- B. "test king"
- C. test king cat
- D. the file is empty

Answer:

QUESTION NO: 212

You are writing a script to automate some tasks. You would like to be able to have a log of everything that you see printed to your console, yet you want to be able to see the output on the console as well. What `textutils` command would typically be used to accomplish this?

Answer:

QUESTION NO: 213

Which line below would count the total number of lines with the word "testking" in `/var/log/maillog`?

- A. `wc -l 'testking /var/log/maillog'`
- B. `for "testking" in [maillog (count) +1]`
- C. `wc -l /var/log/maillog | grep 'testking'`
- D. `cat /var/log/maillog | grep 'testking' | wc -l`
- E. `cat /var/log/maillog | grep 'testking' | wc -r`

Answer:

QUESTION NO: 214

In the command 'test < king | testking'.

- A. The stdout from the command **testking** is saved to the file `test`.
- B. The stdout from the command **test** is saved to the file `testking`.
- C. The command **testking** receives its stdin from the stderr of **test**.
- D. The command **testking** receives its stdin from the stdout of **test**.
- E. The command **king** receives its stdin from the contents of the file `testking`.

Answer:

QUESTION NO: 215

The _____ daemon is needed to establish a PPP link to another computer?

Answer:

QUESTION NO: 216

To keep a process running after you logged out, you start it with the command:

- A. `hohup`
- B. `fg`
- C. `live`
- D. `sh`

Answer:

QUESTION NO: 217

To locate all files that are less than 3 days old, you use the _____ `-mtime -3` command.

Answer:

QUESTION NO: 218

How can you generate a report on disk usage and quotas for all filesystems which are defined in `/etc/mtab` to be read-write with quotas.

- A. `quotarep -a`

- B. repquota /dev/hd*
- C. repquota -a
- D. quotarep /dev/hd*

Answer:

QUESTION NO: 219

You have a Linux system with a 100GB ext2 partition containing large amounts of data. To minimize the boot time, you decide to convert it to a journaling filesystem.

Which journaling file system would be easiest to convert the partition to (without destroying existing data)?

- A. resiserfs
- B. vfat
- C. ext3
- D. xfs

Answer:

QUESTION NO: 220

If you set the umask to 022, by default what permissions will your files have?

- A. 0220
- B. 0557
- C. 0644
- D. 0755

Answer:

QUESTION NO: 221

What type of information is found in the `/etc/fstab` file?

- A. Information about mounted filesystems.
- B. Information about hard disks such as cylinders and heads.
- C. Information about filesystems and mount points.
- D. Information about filesystems types such as super block offset
- E. Information about the consistency of each currently mounted filesystem.

Answer:

QUESTION NO: 222

You installed a new experimental kernel and found that one of your ext2 partitions no longer functions. You tried unsuccessfully to repair it.
What program can you use to interactively debug the filesystem?

- A. e2fsck
- B. tune2fs
- C. debugfs
- D. tine2fs
- E. dumpe2fs

Answer:

QUESTION NO: 223

You want to make sure certain directories are excluded when you update your locate database file.
Where would you typically store this configuration?

- A. /etc/locatedb.conf
- B. /etc/slocatedb.conf
- C. /etc/searchdb.conf
- D. /etc/updatedb.conf

Answer:

QUESTION NO: 224

What would cause a system to report having excess free space but very few available inodes?

- A. Too many hard links are in use on /home.
- B. A user has created many very small files.
- C. **fsck** hasn't been run on /home in a while.
- D. Too many symbolic links are in use on /home.
- E. The disk needs to be synced before running **df**.

Answer:

QUESTION NO: 225

Which of the following commands may be used to view PCI devices seen by the Linux kernel? (Choose two)

- A. less lspci
- B. less /dev/pci
- C. less /proc/pci
- D. less /proc/devices/pci
- E. lspci | less

Answer:

QUESTION NO: 226

Which entry in `/etc/fstab` will allow any user to mount and unmount `/dev/cdrom`?

- | | | | |
|----------------|-----|-------------------------------|-------------|
| A. /dev/cd rom | /cd | ro,noauto,unhide, all | iso9660 0 0 |
| B. /dev/cdrom | /cd | iso9660 ro,noauto,nonroot | 0 0 |
| C. /dev/cdrom | /cd | iso9660 ro,user,noauto,unhide | 0 0 |
| D. /dev/cdrom | /cd | iso9660 ro,user,noauto,unhide | 0 0 |
| E. /dev/cdrom | /cd | iso9660 ro,noauto,defaults | 0 0 |

Answer:

QUESTION NO: 227

You have the following file:

```
-rwxrwxr-x  1 foo  root           0 Feb 23 07:48 /bin/foo
```

Which of the following commands will change the owner of the file `/bin/foo` from the `foo` user to the `bar` user without affecting group ownership?

- A. chown /bin/foo bar
- B. chown bar /bin/foo
- C. chown bar.foo /bin/foo
- D. chown.foo.bar /bin/foo

Answer:

QUESTION NO: 228

Which of the following programs can be used to find the `foo` program in the PATH and associated man pages, but not list every file containing `foo` on the system?

- A. which
- B. search
- C. slocate
- D. where
- E. whereis

Answer:

QUESTION NO: 229

What does the command `ln test king` typically do?

- A. It will create a symbolic link from test to king.
- B. It will create a hard link from king to test.
- C. It will create a symbolic link from king to test.
- D. It will create a copy of the file test in king.

Answer:

QUESTION NO: 230

You are preparing to mount a new ext3 partition.

What command would you use to check the filesystem for errors before mounting it? (Include only the command without path, options, or arguments)

Answer:

QUESTION NO: 231

What utility is used to verify the integrity of a filesystem? (Do not specify path or parameters)

Answer:

QUESTION NO: 232

Your umask is set to 002. If you create a new file, what will the permission of the new file be?

- A. -rw-rw-r--
- B. rwxrwx-w-
- C. -----w-
- D. rwxrwxr-x

Answer:

QUESTION NO: 233

What must be added to the following to enable group quotas for /usr?

/dev/hda2 /usr ext2 defaults 1 1

Answer:

QUESTION NO: 234

You have just set up the X Display Manager.

What file is typically used as the primary configuration file for XDM?

- A. xdm.config
- B. XF86Config
- C. xdm.conf
- D. Xsetup
- E. xdm-config

Answer:

QUESTION NO: 235

You are the administrator for all desktop systems at your company. You do not have a desktop standard and the users are free to use any window manager they choose.

Which of the following methods would be easiest to add a menu item to all users' main menu?

- A. There is no easy solution to this problem.
- B. Use rsync to synchronize all menus with a central server.
- C. Write a script that adds the menu item and have users run it.
- D. Add the changes to the /etc/default/main-menu configuration file.
- E. Use your package manager to upgrade all the packages at once.

Answer:

QUESTION NO: 236

You have a USB storage device that you cannot get working. You have enabled all appropriate USB options in the latest 2.2 kernel but still cannot get your device working. What is the most likely cause of the problem?

- A. You have not configured your usb.usermap properly.
- B. You are using the wrong kernel for this type of device.
- C. The USB device is not USB 2.0 compliant.
- D. There is a USB resource conflict.

Answer:

Section B

Fill In The Blanks Questions

QUESTION NO: 1

Type the command line including switches to convert and install a Redhat package named package.rpm on a Debian system?

Answer: `alien -i package.rpm`

Alternative correct answer: `alien --install package.rpm`

QUESTION NO: 2

Type the simplest command with switches to unpack a compressed archive named file1.tar.gz?

Answer: `tar -xzf file1.tar.gz`

Alternative correct answers:

`tar xzf file1.tar.gz`

`tar xzf file1.tar.gz`

`tar -xzf file1.tar.gz`

QUESTION NO: 3

You need to remove the package testking regardless of dependencies, type the command with switches that will do this?

Answer: `rpm -e testking --nodeps`

Alternative correct answers: `rpm -e --nodeps testking`

QUESTION NO: 4

Type the command will identify the io address range used by a NIC?

Answer: `cat /proc/ioports`

QUESTION NO: 5

Type the shortest command including switches, to remove the installed Redhat Package named packagename from the system.

Answer: rpm -e packagename

QUESTION NO: 6

You need to replace all instances of the word testking with TestKing in a file called file.txt, and send the output to a file named testking.txt. Type the simplest command string to accomplish this.

Answer: sed 's/testking/TestKing/g' file.txt > testking.txt

QUESTION NO: 7

Type the command line that will list information, and all file locations on the installed package mypackage?

Answer: rpm -qil mypackage

Alternative correct answers: rpm -qli mypackage

QUESTION NO: 8

Type the command line to check the installed package mypackage for any configuration file changes since install?

Answer: rpm -V mypackage

QUESTION NO: 9

Type the simplest RPM command to list where the package file testking.rpm will install its files

Answer: rpm -qpl testking.rpm

Alternative correct answer: rpm -qlp testking.rpm

QUESTION NO: 10

What is the full path including the filename of the configuration file that stores the locations of all library files on the system?

Answer: /etc/ld.so.conf

QUESTION NO: 11

On boot, your system shows messages that mention library file errors. What command should you type (command only) to attempt to fix the library errors?

Answer: ldconfig

QUESTION NO: 12

What command will display the needed libraries for the program myprog1 to run?

Answer: ldd myprog1

QUESTION NO: 13

Type in the command line that will execute cmd2 regardless of exit status of cmd1. Assume these commands are on the systems PATH and the command names are cmd1 and cmd2.

Answer: cmd1;cmd2

Alternative correct answers:

cmd1 ; cmd2

cmd1; cmd2

cmd1 ;cmd2

QUESTION NO: 14

Type in the command line that will display the partitions on just the Secondary Slave drive in your system.

Answer: fdisk -l /dev/hdd

QUESTION NO: 15

What would be the device name of the 2nd SCSI disk on your system? Include the full path to the device file

Answer: /dev/sdb

QUESTION NO: 16

What is the device file for the first logical drive in the extended partition of the Secondary Master IDE drive? Include the full path and filename.

Answer: /dev/hdc5

QUESTION NO: 17

Type the full command line to begin partitioning the second SCSI drive on your system using the most common disk partitioning tool.

Answer: fdisk /dev/sdb

QUESTION NO: 18

Type in the device file including path for the second serial port.

Answer: /dev/ttyS1

QUESTION NO: 19

What is the IRQ of COM1?

Answer: 4

QUESTION NO: 20

What is the IRQ of COM3?

Answer: 4

QUESTION NO: 21

What is the IRQ of COM2?

Answer: 3

QUESTION NO: 22

Type in the device file and full path to first serial port.

Answer: /dev/ttyS0

QUESTION NO: 23

Type in the IO address of device /dev/ttyS3

Answer: 02e8

Alternative correct answers:

02e8h

02E8h

02E8

2e8

2E8

QUESTION NO: 24

What is the device file and full path for the LPT1 port?

Answer: /dev/lp0

QUESTION NO: 25

Type in just the numeral of the IRQ most likely to conflict on a system that has both a sound card and second LPT port.

Answer: 5

QUESTION NO: 26

What is the full path and filename of the LPT2 port?

Answer: /dev/lp1

QUESTION NO: 27

Type in the VI command line that would open the file mytestfile.txt and line number it?

Answer: vi +"set number" mytestfile.txt

Alternative correct answers:

-vi mytestfile.txt +"set number"

-vi "+set number" mytestfile.txt

-vi mytestfile.txt "+set number"

QUESTION NO: 28

Type in the variable name that controls the size of the command line history. (Type the variable as it would be used on the command line.)

Answer: \$HISTSIZE

QUESTION NO: 29

Type in the Variable name of the variable that stores the location of the command line history file. (Type the variable as it would be used on the command line.)

Answer: \$HISTFILE

QUESTION NO: 30

Type in just the name of the default file that the command line history is stored in for a logged in user.

Answer: .bash_history

QUESTION NO: 31

You are building a system administration shell script and always want a particular line to read a file named testking1.txt that exists in the home directory of every user, regardless of who the user is. What would be the full path including the filename for this file, for the current user?

Answer: ~/testking1.txt

Alternative correct answer: \$HOME/testking1.txt

QUESTION NO: 32

Type in the file name and full path of the configuration file where you would set the variable HISTSIZE for all users of the system.

Answer: /etc/profile

QUESTION NO: 33

Type in just the name of the command that allows you to edit the command history, and will execute the contents of the buffer when exited.

Answer: fc

QUESTION NO: 34

Type in the full path and name of the file that you would edit to change the default startup runlevel of the system so that it starts an X session on bootup instead of a text mode session.

Answer: /etc/inittab

QUESTION NO: 35

Type the command and argument that would cause the default permissions on newly created files to be set as:

rw- r-- r--

Answer: umask 022

Alternative correct answer: umask 0022

QUESTION NO: 36

You wish to start a process and run it in the background. The binary executable is mybinary, and it's in your path. Type in the command in its simplest form to do this.

Answer: mybinary &

QUESTION NO: 37

You have backgrounded a job called bigtestking. When you type jobs and the command line it comes back with the following info.

```
jobs
[1]  Running      job1
[2] - Running      bigtestking
[3]+ Stopped      job5
```

Type the command any switch(es) that would bring bigtestking to the foreground.

Answer: fg %2

QUESTION NO: 38

You wish to see the processes that are taking up CPU resources and their PID numbers. Type in the command that would do this including the options/arguments to cause a refresh every second.

Answer: top -d 1

Alternative correct answers: top -d1

QUESTION NO: 39

The process bigtestking is out of control, and efforts to cleanly stop it fail. You have executed a ps command and it displays the following info

```
PID      TTY      TIME      CMD
3541 pts/0    10:10:10 bigtestking
3558 pts/0    00:00:00 ps
```

What command should you type to absolutely stop the runaway process?

Answer: kill -9 3541

QUESTION NO: 2

What is the IO Address of the second serial port

-

Answer: 02f8

Alternative correct answer:

02F8
02F8h
02f8h
2f8
2F8
2f8h
2F8h

QUESTION NO: 41

What command line tool can be used to display the window attributes of an X window. Type in the command line without flags or path.

Answer: xwininfo

QUESTION NO: 42

You wish to edit the file 'mytextfile' with the VI editor and search for the string 'testking'. Type in the command line to open the file and highlight the first instance of testking, (and any others).

-

-

Answer: vi +/testking mytextfile

Alternative correct answer: vi mytextfile +/testking

QUESTION NO: 43

You wish to copy 3 lines down from your cursor position into the and append it to the b buffer. Type the key combination to do this.

Answer: "B3yy

QUESTION NO: 44

Using the VI editor you wish to paste the contents of the b buffer to the position of the cursor. What key combination would you type.

Answer: "bp

Alternative correct answers: "Bp

QUESTION NO: 45

You wish to match instances of the word 'Many' that are at the beginning of a line in the vi editor. What is the key combination to do this? Include the character to indicate a search in VI, and type the command as if you were in Command Mode in VI.

Answer: /^Many

QUESTION NO: 46

You wish to search for lines in VI that end with the string 'happy' Input the keystrokes to achieve this, including the vi search character.

Answer: /happy\$

QUESTION NO: 47

You wish to match the character string v2.1 v2.2 v2.3 through to v2.9 within VI. Type the search string to achieve this.

Answer: /v2\.[1-9]

QUESTION NO: 48

From the LILO: or Boot: prompt you wish to start the kernel named linux and set the machine at run level 1. Type the command line to do this?

Answer: linux 1

Alternative correct answers:

linux s

linux S

linux single

QUESTION NO: 49

You wish to know what the previous runlevel the system was in. Type in the command to show this.

Answer: runlevel

QUESTION NO: 50

What command will remove all files named core in the home directories of users (/home), that are more than 7 days old? Type in the simplest command that would do this, without any prompting to delete the files.

Answer: find /home -mtime +7 -name core -exec rm -f {} \;

QUESTION NO: 51

What is the variable name that holds the terminal capabilities variable, which is usually set to vt100? Type the variable exactly as it would be used at the command line.

Answer: \$TERM

QUESTION NO: 52

You wish to cut the 3rd and 7th fields from a colon (:) delimited text file called 'mytestking' and display them on the screen. Type the command that would do this?

Answer: cut -d : -f 3,7 mytestking

Alternative correct answers:

cut -d: -f3,7 mytestking

cut -f3,7 -d: mytestking

cut -f 3,7 -d : mytestking

QUESTION NO: 53

You wish to find out the full path of the binary executable "cmd1". Type just the command that will show the first instance of the command.

Answer: which cmd1

QUESTION NO: 54

You wish to enable remote X access for the hosts: host1, host2 and host3. Type in the command and any needed arguments to do this.

Answer: xhost +Host1 Host2 Host3

QUESTION NO: 55

You wish to move all files and directories from within /home/john to the directory /home/tessking.

Type in the command line that would do this?

Answer: mv /home/john/* /home/tessking

Alternative correct answer: mv /home/john/* /home/tessking/

QUESTION NO: 56

You wish to copy the full contents of the /home/tess directory and all subdirectories to the /home/king directory.

Type in the simplest command to do this.

Answer: cp -R /home/tess/* /home/king

QUESTION NO: 57

What must you type immediately after adding new fonts to an X window system, to make them available to the system?

Answer: mkfontdir

QUESTION NO: 58

Type in the command that would start an application to check for colour depth of an X window.

Answer: xwininfo

QUESTION NO: 59

What is the name of the point to point protocol daemon that is used when connecting with a modem?

Answer: pppd

QUESTION NO: 60

What is the name of the X configuration tool that runs in text mode from the command line, and has a large number of questions?

Answer: xf86config

QUESTION NO: 61

What is the name of the X configuration tool that runs in a simplified X-like environment?

Answer: XF86Setup

QUESTION NO: 62

What is the name of the X configuration tool that runs in graphical text mode?

Answer: Xconfigurator

QUESTION NO: 63

You have a package called debianpkg.deb and wish to convert it to an rpm.

Type the command line that will do this for you including switches.

Answer: `alien -r debianpkg.deb`

Alternative correct answer: `alien --to-rpm debianpkg.deb`

QUESTION NO: 64

You wish to install a package named `package.deb` using the `apt-get` tool. Type the simplest command line to do this.

Answer: `apt-get install package.deb`

QUESTION NO: 65

What is the name and full path to the location of the `dpkg` database?

Answer: `/var/lib/dpkg`

QUESTION NO: 66

Type in the command line to upgrade a package using the `apt-get` command. The package name is `package1`.

Answer: `apt-get upgrade package1`

QUESTION NO: 67

Type in the command to update the `apt-get` database with new or updated packages.

Answer: `apt-get update`

QUESTION NO: 68

What is the location including the full path to where `apt-get` stores its downloaded packages?

Answer: `/var/cache/apt/archives`

QUESTION NO: 69

You wish to install a debian package using dpkg called debianpackage.deb. Give the simplest command line to do this.

Answer: dpkg -i debianpackage.deb

Alternative correct answer: dpkg --install debianpackage.deb

QUESTION NO: 70

What file must be put in the root of a filesystem for quotas to be enabled for users?

Answer: quota.user

Alternative correct answer: aquota.user

QUESTION NO: 71

What command on an rpm-based system will upgrade any existing packages on a system, but not add any packages? Type just the command and switch(es).

Answer: rpm -F

QUESTION NO: 72

What command on an rpm-based system will upgrade any existing packages on a system, and add any packages needed? Type just the command and switch(es).

Answer: rpm -U

QUESTION NO: 73

Type only the name of the file or utility will show you the last system bootup messages.

Answer: dmesg

QUESTION NO: 74

What 3 letter command will show you the values set by the /etc/profile script file for the entire system?

Answer: env

QUESTION NO: 75

What 3 letter command will show you the values set by the /etc/bashrc script file for the entire system?

Answer: set

QUESTION NO: 76

You are the root user of a system, and need to gather quota information about all users on the system. Type the command along with any options and arguments to accomplish this.

Answer: repquota -a

QUESTION NO: 77

On a standard Linux system as a normal user, what umask value will cause your file to be created with the following permissions ?

```
drwxr-x---      2 username group      512 Mar  6 11:16  dir1
-rw-r-----      1 username group        0 Mar  6 11:16  file1
```

Answer: 027

Alternative correct answer: 0027

QUESTION NO: 78

A file named "testking1" is set with the following ownership:

```
Owner = foo
Group = bar
```

You want to change this file's ownership to be totally owned by foobar, what command string will accomplish this?

Answer: chown foo.bar testking1

Alternative correct answer: chown foo:bar testking1

QUESTION NO: 79

You are experiencing errors and strange occurrences on an Ext2 filesystem, and want to debug it's operations. Type just the command that will most directly accomplish this.

Answer: debugfs

QUESTION NO: 80

You are the system administrator for an X server, and experience attempts to initiate an unauthorized session from host21. What command with options and arguments would deny access only to host21 for X sessions?

Answer: xhost -host21

QUESTION NO: 81

What command or option will allow a program to continue operations after the invoking user has logged out of the system? Type just the answer.

Answer: nohup

QUESTION NO: 82

What is the name and full path of the file that contains the system wide Environment variables and Startup programs?

Answer: /etc/profile

QUESTION NO: 83

Type just the name of the file in a normal user's home directory that will set their local user environment and startup programs on a default Linux system.

Answer: `.bash_profile`

QUESTION NO: 84

On a default Linux system, what is the name of the file that sets users aliases and functions?

Answer: `.bashrc`

QUESTION NO: 85

What is the name and full path of the file that contains the system wide aliases and functions for the default Linux shell?

Answer: `/etc/bashrc`

QUESTION NO: 86

What is the name of the file that runs on user logout, usually set to clear the screen?

Answer: `.bash_logout`

QUESTION NO: 87

You are in your home directory. You have made changes to your `.bash_profile` and incorporated a modified `PATH` variable. Type in the command that will reread the `.bash_profile` and set the changes you have made.

Answer: `source .bash_profile`

Alternative correct answer: `..bash_profile`

QUESTION NO: 88

You wish to set your shell options so that the output from a redirect will NOT overwrite an existing file. Type the command including switches.

Answer: `set -o noclobber`

QUESTION NO: 89

You wish to turn off the shell option that stops you overwriting existing files. Type the command in that will do this including switches.

Answer: set +o noclobber

QUESTION NO: 90

You wish to list all files within your current working directory that are of the type ASCII, showing just a single line for each of those files. Type in the command string that would accomplish this.

Answer: file * | grep ASCII

Alternative correct answer: file * | grep -i ascii

QUESTION NO: 91

You wish to configure your soundcard. Type in the name of the Red Hat text/gui application that allows you to set/autodetect the sound card?

Answer: sndconfig

QUESTION NO: 92

You wish to find out more information on a file e.g. Last accessed, Modified changed, Inode. What is the simplest command that would show this information for a file called tessking?

Answer: stat tessking

QUESTION NO: 93

You wish to copy the entire contents of the /dev/hda1 to /dev/hdb1 block by block. Type in the simplest command that would do this?

Answer: dd if=/dev/hda1 of=/dev/hdb1

QUESTION NO: 94

You have a floppy image called boot.img in your current working directory and wish to transfer this image to a floppy device /dev/fd0. Type in the simplest command that would do this?

Answer: dd if=boot.img of=/dev/fd0

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 contains 236 questions

Section B contains 94 questions

The total number of questions is 330.