CompTIA Linux+ Certification LX0-103 Exam

➢ **Vendor: CompTIA**

➢ **Exam Code: LX0-103**

➢ **Exam Name: CompTIA Linux+ Powered by LPI – Exam 1 (LX0-103)**

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QUESTION 1
Which of the following commands will write a message to the terminals of all logged in users?

A. bcast
B. mesg
C. print
D. wall
E. yell

Answer: D

QUESTION 2
What can the Logical Volume Manager (LVM) be used for? (Choose THREE.)

A. To create RAID 9 arrays.
B. To dynamically change the size of logical volumes.
C. To encrypt logical volumes.
D. To create snapshots.
E. To dynamically create or delete logical volumes.

Answer: BDE

QUESTION 3
Which of the following commands updates the linker cache of shared libraries?

A. mkcache
B. soconfig
C. mkldconfig
D. lddconfig
E. ldconfig

Answer: E

QUESTION 4
Which of the following commands lists all currently installed packages when using RPM package management?

A. yum --query --all
B. yum --list --installed
C. rpm --query --all
D. rpm --list installed

Answer: C

QUESTION 5
Which of the following commands can be used to download the RPM package kernel without installing it?

A. yum download --no-install kernel
B. yumdownloader kernel
C. rpm --download --package kernel

D. rpmdownload kernel

Answer: B

QUESTION 6
When using rpm --verify to check files created during the installation of RPM packages, which of the following information is taken into consideration? (Choose THREE.)

A. Timestamps
B. MD5 checksums
C. Inodes
D. File sizes
E. GnuPG signatures

Answer: ABD

QUESTION 7
Which of the following is correct when talking about mount points?

A. Every existing directory can be used as a mount point.
B. Only empty directories can be used as a mount point.
C. Directories need to have the SetUID flag set to be used as a mount point.
D. Files within a directory are deleted when the directory is used as a mount point.

Answer: A

QUESTION 8
Which function key is used to start Safe Mode in Windows NT?

A. F10
B. F8
C. F6
D. Windows NT does not support Safe Mode

Answer: D

QUESTION 9
Which of the following environment variables overrides or extends the list of directories holding shared libraries?

A. LD_LOAD_PATH
B. LD_LIB_PATH
C. LD_LIBRARY_PATH
D. LD_SHARE_PATH
E. LD_RUN_PATH

Answer: C

QUESTION 10
Which RPM command will output the name of the package which supplied the file /etc/exports?

A. rpm -F /etc/exports

B.   rpm -qf /etc/exports
C.   rpm -Kl /etc/exports
D.   rpm -qp /etc/exports
E.   rpm -qi /etc/exports

Answer: B

QUESTION 11
When removing a package, which of the following dpkg options will completely remove the files including configuration files?

A.   --clean
B.   --delete
C.   --purge
D.   remove

Answer: C

QUESTION 12
Which file should be edited to select the network locations from which Debian installation package files are loaded?

A.   /etc/dpkg/dpkg.cfg
B.   /etc/apt/apt.conf
C.   /etc/apt/apt.conf.d
D.   /etc/apt/sources.list
E.   /etc/dpkg/dselect.cfg

Answer: D

QUESTION 13
Which of the following commands overwrites the bootloader located on /dev/sda without overwriting the partition table or any data following it?

A.   dd if=/dev/zero of=/dev/sda bs=512
B.   dd if=/dev/zero of=/dev/sda bs=512 count=1
C.   dd if=/dev/zero of=/dev/sda bs=440 count=1
D.   dd if=/dev/zero of=/dev/sda bs=440

Answer: C

QUESTION 14
Which of the following commands can be used to create a USB storage media from a disk image?

A.   gdisk
B.   dd
C.   cc
D.   fdisk
E.   mount

Answer: B

QUESTION 15
In Bash, inserting 1>&2 after a command redirects

A. standard error to standard input.
B. standard input to standard error.
C. standard output to standard error.
D. standard error to standard output.
E. standard output to standard input.

Answer: C

QUESTION 16
What command will generate a list of user names from /etc/passwd along with their login shell?

A. column -s : 1,7 /etc/passwd
B. chop -c 1,7 /etc/passwd
C. colrm 1,7 /etc/passwd
D. cut -d: -f1,7 /etc/passwd

Answer: D

QUESTION 17
In a nested directory structure, which find command line option would be used to restrict the command to searching down a particular number of subdirectories?

A. -dirmax
B. -maxdepth
C. -maxlevels
D. -n
E. -s

Answer: B

QUESTION 18
Which of the following characters can be combined with a separator string in order to read from the current input source until the separator string, which is on a separate line and without any trailing spaces, is reached?

A. <<
B. <|
C. !<
D. &<

Answer: A

QUESTION 19
Which of the following commands will NOT update the modify timestamp on the file /tmp/myfile.txt?

A. file /tmp/myfile.txt
B. echo "Hello" >/tmp/myfile.txt

C. sed -ie "s/1/2/" /tmp/myfile.txt
D. echo -n "Hello" >>/tmp/myfile.txt
E. touch /tmp/myfile.txt

Answer: A

QUESTION 20
What is the default nice level when a process is started using the nice command?

A. -10
B. 10
C. 20
D. 0

Answer: B

QUESTION 21
Which command will print line numbers before each line in a file?

A. In
B. nl
C. cat-n
D. numline

Answer: C

QUESTION 22
Which RPM command will output the name of the package which installed the file /etc/exports?

A. rpm -F /etc/exports
B. rpm -qf /etc/exports
C. rpm -Kl /etc/exports
D. rpm -qp /etc/exports
E. rpm -qi /etc/exports

Answer: B

QUESTION 23
How do you get a list of files that have been installed from a dpkg package?

A. dpkg-I pkgname
B. dpkg-C pkgname
C. dpkg-s pkgname
D. dpkg-S pkgname
E. dpkg-L pkgname

Answer: E

QUESTION 24
You logged in as user tuxl, but now you want to switch users to tux2 with tux2's environment. How would you do this?

A.   su tux2
B.   su-etux2
C.   su - tux2
D.   su -m tux2
E.   su-ftux2

Answer: C

QUESTION 25
Which of the following commands will print to standard out only the lines that do not begin with #
(pound symbol) in the file foobar?

A.   /bin/grep ^# foobar
B.   /bin/grep -v ^# foobar
C.   /bin/grep #$ foobar
D.   /bin/grep -v #$ foobar

Answer: B

QUESTION 26
What does the command do: cat '$TEST'?

A.   Displays a bash syntax error message.
B.   Displays the contents of the file named $TEST if it exists.
C.   Waits for the user to enter text and then echos the text back.
D.   Displays the contents of the file named inside the back quotes.
E.   Displays the contents of the file named by the environment variable TEST.

Answer: B

QUESTION 27
What script is included with the kernel source to patch a kernel?

A.   update-kernel
B.   patch-kernel
C.   apply-patch
D.   patch

Answer: B

QUESTION 28
Which option is used in the Samba configuration file to set which files and directories are neither
visible to or accessible by the clients?

A.   mangle names
B.   hide dot files
C.   hide special files
D.   hide files
E.   veto files

Answer: E

QUESTION 29
When building an RPM package, which rpmbuild option is used to unpack sources and apply patches before proceeding with the next steps?

A. -bb
B. -be
C. -bs
D. -ba
E. -bp

Answer: E

QUESTION 30
What command is used to mount a floppy disk image under /mnt/floppy?

A. mount -loop root.img /mnt/floppy
B. mount root.img /mnt/floppy
C. mount -o loop root.img /mnt/floppy
D. mount root.img
E. mount -l root.img /mnt/floppy

Answer: C

QUESTION 31
If the current directory is /root and the kernel source is located in /usr/src/linux, which of the following commands should be used to apply the patch /tmp/foopatch?

A. cd /usr/src/linux; cat /tmp/foopatch | patch
B. cd /usr/src/linux; cat /tmp/foopatch | patch -p0
C. cd /usr/src/linux; patch -p1 > /tmp/foopatch
D. cd /usr/src/linux; patch -p1 < /tmp/foopatch
E. cat /tmp/foopatch | patch -p0

Answer: D

QUESTION 32
What does the following script do?
```
#!/bin/bash
find/ -perm +4000 | mail -s "Daily find output" root
```

A. Emails a report of all suid files to root.
B. Emails a report of all important files to root.
C. Emails a report of all writeable files to root.
D. Emails a report of all guid files to root.
E. Corrects permissions on files and emails the results to root.

Answer: A

QUESTION 33
You have just added a CD.ROM drive (/dev/hdd) to your system and have added it to your fstab.

Typically you can use which of the following commands to mount media in that drive to /mnt/cdrom?

A. mount /dev/cdrom /mnt/cdrom
B. mount/dev/cdrom
C. mount -t cdrom /dev/cdrom /mnt/cdrom
D. mount /mnt/cdrom
E. automount /mnt/hdd /mnt/cdrom

Answer: D

QUESTION 34
With Xorg 7.0, what is the name of the default font server?

A. xfserv
B. xfs
C. fonts
D. xfstt
E. fserv

Answer: B

QUESTION 35
An administrator is looking for an executable file foo. Which of the following commands would search for foo within directories set in the shell variable, PATH?

A. locate
B. which
C. find
D. query
E. whereis

Answer: B

QUESTION 36
Which of the following does the Filesystem Hierarchy Standard enable? (Select TWO.)

A. Software to predict the location of installed files and directories.
B. Software to predict the ownership and access rights to files and directories.
C. Users to predict the location of installed files and directories.
D. Users to predict how the filesystem should be formatted according to need.

Answer: AC

QUESTION 37
To allow a regular user account to mount and unmount a filesystem (for instance, a cdrom or floppy), which option need to be added to the corresponding line in /etc/fstab?

A. nouidchk
B. alluser
C. user
D. auto

Answer: C

QUESTION 38
Given the following output:
```
prompt> myapp
[1]+ Stopped myapp
prompt>
```
Which of the following commands will resume executing the stopped process while allowing the user to continue to type commands at the command prompt?

A. bg myapp
B. continue myapp
C. exec myapp
D. fg myapp
E. myapp &

Answer: A

QUESTION 39
In xorg.conf, which section is concerned with fonts?

A. the Fonts section
B. the Files section
C. the xfsCodes section
D. the Graphics section
E. the modeline section

Answer: B

QUESTION 40
Which of the following configuration files should be modified to disable the ctrl-alt-delete key combination?

A. /etc/keys
B. /proc/keys
C. /etc/inittab
D. /proc/inittab
E. /etc/reboot

Answer: C

QUESTION 41
Which of the following commands will print the last 10 lines of a text file to the standard output?

A. cat -n 10 filename
B. dump -n 10 filename
C. head -n 10 filename
D. tail -n 10 filename

Answer: D

QUESTION 42
Which of the following commands prints a list of usernames (first column) and their primary group (fourth column) from the /etc/passwd file?

A. fmt -f 1,4 /etc/passwd
B. split -c 1,4 /etc/passwd
C. cut -d : -f 1,4 /etc/passwd
D. paste -f 1,4 /etc/passwd

Answer: C

QUESTION 43
Which of the following signals is sent to a process when the key combination CTRL+C is pressed on the keyboard?

A. SIGTERM
B. SIGINT
C. SIGSTOP
D. SIGKILL

Answer: B

QUESTION 44
What happens after issuing the command vi without any additional parameters?

A. vi starts and loads the last file used and moves the cursor to the position where vi was when it last exited.
B. vi starts and requires the user to explicitly either create a new or load an existing file.
C. vi exits with an error message as it cannot be invoked without a file name to operate on.
D. vi starts in command mode and opens a new empty file.
E. vi starts and opens a new file which is filled with the content of the vi buffer if the buffer contains text.

Answer: D

QUESTION 45
Which of the following command sets the Bash variable named TEST with the content FOO?

A. set TEST="FOO"
B. TEST = "FOO"
C. var TEST="FOO"
D. TEST="FOO"

Answer: D

QUESTION 46
Which variable defines the directories in which a Bash shell searches for executable commands?

A. BASHEXEC
B. BASHRC
C. PATH
D. EXECPATH
E. PATHRC

Answer: C

QUESTION 47
Which of the following commands determines the type of a file by using a definition database file which contains information about all common file types?

A. magic
B. type
C. file
D. pmagic
E. hash

Answer: C

QUESTION 48
Which of the following commands prints all files and directories within the /tmp directory or its subdirectories which are also owned by the user root? (Choose TWO.)

A. find /tmp -uid root -print
B. find -path /tmp -uid root
C. find /tmp -user root -print
D. find /tmp -user root
E. find -path /tmp -user root print

Answer: CD

QUESTION 49
When running the command:
```
sed -e "s/a/b/" /tmp/file >/tmp/file
```
While /tmp/file contains data, why is /tmp/file empty afterwards?

A. The file order is incorrect. The destination file must be mentioned before the command to ensure redirection.
B. The command sed did not match anything in that file therefore the output is empty.
C. When the shell establishes the redirection it overwrites the target file before the redirected command starts and opens it for reading.
D. Redirection for shell commands do not work using the > character. It only works using the | character instead.

Answer: C

QUESTION 50
When given the following command line:
```
echo "foo bar" | tee bar | cat
```
Which of the following output is created?

A. cat
B. foo bar
C. tee bar
D. bar
E. foo

Answer: B

QUESTION 51
Which of the following commands can be used to determine how long the system has been running?
(Choose TWO.)

A. uptime
B. up
C. top
D. uname -u
E. time up

Answer: AC

QUESTION 52
Which of the following are valid stream redirection operators within Bash? (Choose THREE.)

A. <
B. <<<
C. >
D. >>>
E. %>

Answer: ABC

QUESTION 53
After successfully creating a hard link called bar to the ordinary file foo, foo is deleted from the
filesystem. Which of the following describes the resulting situation?

A. foo and bar would both be removed.
B. foo would be removed while bar would remain accessible.
C. foo would be removed. bar would still exist but would be unusable.
D. Both foo and bar would remain accessible.
E. The user is prompted whether bar should be removed, too.

Answer: B

QUESTION 54
After moving data to a new filesystem, how can the former path of the data be kept intact in order
to avoid reconfiguration of existing applications? (Choose TWO.)

A. By creating an ACL redirection from the old to the new path of the data.
B. By creating a hard link from the old to the new path of the data.
C. By creating a symbolic link from the old to the new path of the data.
D. By running the command touch on the old path.
E. By mounting the new filesystem on the original path of the data.

Answer: CE

QUESTION 55
Which of the following commands changes the ownership of file.txt to the user dan and the group
staff?

A. chown dan/staff file.txt
B. chown dan:staff file.txt
C. chown -u dan -g staff file.txt
D. chown dan -g staff file.txt

Answer: B

QUESTION 56
Which of the following commands makes /bin/foo executable by everyone but writable only by its owner?

A. chmod u=rwx,go=rx /bin/foo
B. chmod o+rwx,a+rx /bin/foo
C. chmod 577 /bin/foo
D. chmod 775 /bin/foo

Answer: A

QUESTION 57
Which of the following commands can be used to search for the executable file foo when it has been placed in a directory not included in $PATH?

A. apropos
B. which
C. find
D. query
E. whereis

Answer: C

QUESTION 58
Which of the following Linux filesystems preallocates a fixed number of inodes at the filesystem's make/ creation time and does NOT generate them as needed? (Choose TWO.)

A. ext3
B. JFS
C. ext2
D. XFS
E. procfs

Answer: AC

QUESTION 59
What is the purpose of the Filesystem Hierarchy Standard?

A. It is a security model used to ensure files are organized according to their permissions and accessibility.
B. It provides unified tools to create, maintain and manage multiple filesystems in a common way.
C. It defines a common internal structure of inodes for all compliant filesystems.
D. It is a distribution neutral description of locations of files and directories.

Answer: D

QUESTION 60
Instead of supplying an explicit device in /etc/fstab for mounting, what other options may be used to identify the intended partition? (Choose TWO.)

A. FIND
B. ID
C. LABEL
D. NAME
E. UUID

Answer: CE

QUESTION 61
After running the command umount /mnt, the following error message is displayed:
`umount: /mnt: device is busy.`
What is a common reason for this message?

A. The kernel has not finished flushing disk writes to the mounted device.
B. A user has a file open in the /mnt directory.
C. Another file system still contains a symlink to a file inside /mnt.
D. The files in /mnt have been scanned and added to the locate database.
E. The kernel thinks that a process is about to open a file in /mnt for reading.

Answer: B

QUESTION 62
What does the command do: mount -a?

A. It mounts all available filesystems onto the current directory.
B. It shows all mounted filesystems.
C. It mounts all user mountable filesystems for the current user.
D. It mounts all filesystems listed in /etc/fstab which have the option auto set.
E. It mounts all filesystems listed in /etc/fstab which have the option noauto set.

Answer: D

QUESTION 63
Which of the following commands set the sticky bit for the directory /tmp? (Choose TWO.)

A. chmod +s /tmp
B. chmod +t /tmp
C. chmod 1775 /tmp
D. chmod 4775 /tmp
E. chmod 2775 /tmp

Answer: BC

QUESTION 64
Which of the following commands can be used to display the inode number of a given file?

A. inode
B. ls
C. ln
D. cp

Answer: B

QUESTION 65
Which of the following commands shows the definition of a given shell command?

A. where
B. stat
C. type
D. case

Answer: C

QUESTION 66
What do the permissions -rwSr-xr-x mean for a binary file when it is executed as a command?

A. The command is SetUID and it will be executed with the effective rights of the owner.
B. The command will be executed with the effective rights of the group instead of the owner.
C. The execute flag is not set for the owner. Therefore the SetUID flag is ignored.
D. The command will be executed with the effective rights of the owner and group.

Answer: C

QUESTION 67
Which of the following pieces of information of an existing file is changed when a hard link pointing to that file is created?

A. File size
B. Modify timestamp
C. Link count
D. Inode number
E. Permissions

Answer: C

QUESTION 68
Which file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Specify the file name only without any path.)

Answer:
cmdline, /proc/cmdline

QUESTION 69
Which command will display messages from the kernel that were output during the normal boot sequence?

Answer:
dmesg, /bin/dmesg

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QUESTION 70
Which world-writable directory should be placed on a separate partition in order to prevent users from being able to fill up the / filesystem? (Specify the full path to the directory.)

Answer:
`/tmp, tmp, /var/tmp, /tmp/, /var/tmp/`

QUESTION 71
In which directory must definition files be placed to add additional repositories to yum?

Answer:
`/etc/yum.repos.d, /etc/yum.repos.d/, yum.repos.d, yum.repos.d/`

QUESTION 72
What is the name of the main configuration file for GNU GRUB? (Specify the file name only without any path.)

Answer:
`menu.lst, grub.conf, grub.cfg`

QUESTION 73
Which option to the yum command will update the entire system? (Specify ONLY the option name without any additional parameters.)

Answer:
`update, upgrade`

QUESTION 74
Which command will disable swapping on a device? (Specify ONLY the command without any path or parameters.)

Answer:
`swapoff, /sbin/swapoff`

QUESTION 75
Which Debian package management tool asks the configuration questions for a specific already installed package just as if the package were being installed for the first time? (Specify ONLY the command without any path or parameters.)

Answer:
`dpkg-reconfigure`

QUESTION 76
Which signal is missing from the following command that is commonly used to instruct a daemon to reinitialize itself, including reading configuration files?
`killall -s ____ daemon`

Answer:
`HUP, SIGHUP, 1`

QUESTION 77
Which command displays a list of all background tasks running in the current shell? (Specify ONLY the command without any path or parameters.)

Answer:
`jobs`

QUESTION 78
Which Bash environment variable defines in which file the user history is stored when exiting a Bash process? (Specify ONLY the variable name.)

Answer:
`HISTFILE`

QUESTION 79
Which command is used in a Linux environment to create a new directory? (Specify ONLY the command without any path or parameters.)

Answer:
`mkdir, /usr/bin/mkdir`

QUESTION 80
Which command is used to create and initialize the files used to store quota information? (Specify ONLY the command without any path or parameters.)

Answer:
`quotacheck`

QUESTION 81
Which umask value will result in the default access permissions of 600 (rw-------) for files and 700 (rwx------) for directories? (Specify only the numerical umask value.)

Answer:
`0077, 077`

QUESTION 82
Which SysV init configuration file should be modified to disable the ctrl-alt-delete key combination?

A. /etc/keys
B. /proc/keys
C. /etc/inittab
D. /proc/inittab
E. /etc/reboot

Answer: C

QUESTION 83
During a system boot cycle, what program is executed after the BIOS completes its tasks?

A. The bootloader
B. The inetd program
C. The init program
D. The kernel

Answer: A

QUESTION 84

Which run levels should never be declared as the default run level when using SysV init? (Choose TWO.)

A. 0
B. 1
C. 3
D. 5
E. 6

Answer: AE

QUESTION 85
Which of the following statements is correct when talking about /proc/?

A. All changes to files in /proc/ are stored in /etc/proc.d/ and restored on reboot.
B. All files within /proc/ are read-only and their contents cannot be changed.
C. All changes to files in /proc/ are immediately recognized by the kernel.
D. All files within /proc/ are only readable by the root user.

Answer: C

QUESTION 86
What of the following statements are true regarding /dev/ when using udev? (Choose TWO.)

A. Entries for all possible devices get created on boot even if those devices are not connected.
B. Additional rules for udev can be created by adding them to /etc/udev/rules.d/.
C. When using udev, it is not possible to create block or character devices in /dev/ using mknod.
D. The /dev/ directory is a filesystem of type tmpfs and is mounted by udev during system startup.
E. The content of /dev/ is stored in /etc/udev/dev and is restored during system startup.

Answer: BD

QUESTION 87
Which of the following information is stored within the BIOS? (Choose TWO.)

A. Boot device order
B. Linux kernel version
C. Timezone
D. Hardware configuration
E. The system's hostname

Answer: AD

QUESTION 88
Which of the following commands reboots the system when using SysV init? (Choose TWO.)

A. shutdown -r now
B. shutdown -r "rebooting"
C. telinit 6
D. telinit 0
E. shutdown -k now "rebooting"

Answer: AC

QUESTION 89
Which of the following are init systems used within Linux systems? (Choose THREE.)

A. startd
B. systemd
C. Upstart
D. SysInit
E. SysV init

Answer: BCE

QUESTION 90
What information can the lspci command display about the system hardware? (Choose THREE.)

A. Device IRQ settings
B. PCI bus speed
C. System battery type
D. Device vendor identification
E. Ethernet MAC address

Answer: ABD

QUESTION 91
Which of the following commands brings a system running SysV init into a state in which it is safe to perform maintenance tasks? (Choose TWO.)

A. shutdown -R 1 now
B. shutdown -single now
C. init 1
D. telinit 1
E. runlevel 1

Answer: CD

QUESTION 92
What is the first program that is usually started, at boot time, by the Linux kernel when using SysV init?

A. /lib/init.so
B. /sbin/init
C. /etc/rc.d/rcinit
D. /proc/sys/kernel/init
E. /boot/init

Answer: B

QUESTION 93
What does the command do: mount -a?

A. It ensures that all file systems listed with the option noauto in /etc/fstab are mounted.
B. It shows all mounted file systems that have been automatically mounted.
C. It opens an editor with root privileges and loads /etc/fstab for editing.
D. It ensures that all file systems listed with the option auto in /etc/fstab are mounted.
E. It ensures that all file systems listed in /etc/fstab are mounted regardless of their options.

Answer: D

QUESTION 94
Which of the following settings for umask ensures that new files have the default permissions -rw-r----- ?

A. 0017
B. 0640
C. 0038
D. 0027

Answer: D

QUESTION 95
Which of the following is the device file name for the second partition on the only SCSI drive?

A. /dev/hda1
B. /dev/sda2
C. /dev/sd0a2
D. /dev/sd1p2

Answer: B

QUESTION 96
In order to display all currently mounted filesystems, which of the following commands could be used? (Choose TWO.)

A. cat /proc/self/mounts
B. free
C. mount
D. lsmounts
E. cat /proc/filesystems

Answer: AC

QUESTION 97
Which of the following commands can be used to locate programs and their corresponding man pages and configuration files?

A. dirname
B. which
C. basename
D. query
E. whereis

Answer: E

QUESTION 98
Which of the following commands changes the number of days before the ext3 filesystem on /dev/sda1 has to run through a full filesystem check while booting?

A. tune2fs -d 200 /dev/sda1
B. tune2fs -c 200 /dev/sda1
C. tune2fs -i 200 /dev/sda1
D. tune2fs -n 200 /dev/sda1
E. tune2fs --days 200 /dev/sda1

Answer: C

QUESTION 99
Which type of filesystem is created by mkfs when it is executed with the block device name only and without any additional parameters?

A. ext2
B. ext3
C. ext4
D. XFS
E. VFAT

Answer: A

QUESTION 100
How many fields are in a syntactically correct line of /etc/fstab?

A. 3
B. 4
C. 5
D. 6
E. 7

Answer: D

QUESTION 101
The command used to determine a file's type is

A. type
B. find
C. file
D. ls

Answer: C

QUESTION 102
Select the line that BEST represents what permissions the /etc/passwd file should have.

A. -rw------- 1 root root 531 Jun 5 22:45 /etc/passwd

B. -rw-r--r-- 1 root root 531 Jun 5 22:45 /etc/passwd
C. -rw-r--r-- 1 1 1 531 Jun 5 22:45 /etc/passwd
D. A, B, C are not correct
E. A, B, C are correct

Answer: B

QUESTION 103
What command should be invoked to give the user sally read and write, but not execute, access to the file strategy.txt using Extended ACL entries?

A. setfacl -setperm sally:rw strategy.txt
B. setfacl -m user::sally+rw strategy.txt
C. setfacl-m user: sally; rwstrategy.txt
D. setfacl -setperm user:sally+rw strategy.txt

Answer: C

QUESTION 104
Which command will print out the attributes of the file foobar?

A. ls-attrfoobar
B. lsattr foobar
C. printattr foobar
D. fileattr foobar

Answer: B

QUESTION 105
You are preparing a new set of shared libraries in /usr/local/applib and you have written and compiled some code that uses these libraries. You have already performed an Idconfig, however the system still cannot find the shared libraries. What is most likely the cause of this?

A. You used the wrong compil|er.
B. You did not update your PATH variable.
C. You compiled the code with wrong library.
D. You forgot to put the library path in ld.so.conf.

Answer: D

QUESTION 106
You are having problems with a particular font and you want to see if its directory is included in XF86Config. Which section contains this information?

A. Paths
B. Fonts
C. Files
D. Graphics

Answer: C

QUESTION 107

Which command will list all the files installed from the RPM package file named vorbis-tools-1.1.1386.rpm?

A. rpm-qf vorbis-tools-1.1.1386.rpm
B. rpm -F vorbis-tools-1.1.1386.rpm
C. rpm -pf vorbis-tools-1.1.1386.rpm
D. rpm -ql vorbis-tools-1.1.1386.rpm
E. rpm-qlp vorbis-tools-1.1.1386.rpm

Answer: E

QUESTION 108
Your department decided to change the Gnome Display Manager's greeting. What configuration file should you edit?

A. /etc/gnome/greeting
B. /opt/gnome/share/greeting
C. /etc/X11/gmd.conf
D. /etc/X11/gdm/lnit/Default

Answer: D

QUESTION 109
What key combination is used to forcibly halt the X server in the event of the graphical session becoming unusable (eg., desktop manager or fullscreen application hanging)?

A. press CTRL+ALT+DEL
B. press CTRL+ALT+BACK_SPACE
C. press CTRL+ALT+DEL twice
D. press CTRL+ALT+F1 then run

Answer: B

QUESTION 110
The system bell sound is annoying you. Which of the following can you use to change this and other userX preferences?

A. xset
B. xconf
C. xbell
D. xmag
E. xpref

Answer: A

QUESTION 111
Which of the following commands will print the inode usage on each mounted filesystem?

A. du -i
B. df -i
C. lsfs -i

D. printfs -i

Answer: B

QUESTION 112
In GRUB's configuration file an administrator finds the following line:
`root (hd1,4)`
Which of the following is the corresponding device name on a Linux system?

A. /dev/hda4
B. /dev/hda5
C. /dev/hdb4
D. /dev/hdb5

Answer: D

QUESTION 113
While using the vi editor, you wish to move ahead one page. You should press the control key and
____.

A. A
B. D
C. F
D. U

Answer: C

QUESTION 114
You have created a really long letter and after you are done you notice that you used the name "Bob" many times but you forgot to capitalize it in many instances. Which command would replace "bob" with "Bob" in all instances and generate a new letter for printing?

A. sed '/bob/Bob' letter >newletter
B. sed s/bob/Bob/letter < newletter
C. sed 's/bob/Bob' letter > newletter
D. sed 's/bob/Bob/g' letter > newletter
E. sed 's/bob. Bob/' letter > newletter

Answer: D

QUESTION 115
How can you turn off the group quota in /pub?

A. quotaoff/pub
B. quotaoff-gv/pub
C. quotadown/pub
D. rm/pub/quota.group

Answer: B

QUESTION 116
When you start XWindows, which series of programs and/or scripts would most closely describe

the start-up process?

A. xdm -> xinit -> xinitrc -> Xclients
B. kde -> xinitrc -> xinit -> Xclients
C. startx -> xinitrc -> Xclients -> kde
D. startx -> xinit -> xinitrc -> Xclients
E. startx -> xinit -> Xclients -> xinitrc

Answer: D

QUESTION 117
Which of the following lines from /etc/X11/XF86Config indicates what fonts can be found on a font server?

A. FontPath = server
B. Fonts "unix/:7100"
C. FontPath "lunix/:7100"
D. Fonts = server
E. Fontserver = "servername"

Answer: C

QUESTION 118
What RPM command would show you detailed information for a package called openssh-3.6.i386.rpm?

A. rpm-showinformation openssh-3.6.i386.rpm
B. rpm-showdetails-package openssh-3.6.i386.rpm
C. rpm-query-info-package openssh-3.6.i386.rpm
D. rpm-verify openssh-3.6.i386.rpm

Answer: C

QUESTION 119
Which command will create an ext3 filesystem on /dev/hda2?

A. /sbin/mke2fs -d /dev/hda2
B. /sbin/mke2fs -j /dev/hda2
C. /sbin/mke2fs -m 3 /dev/hda2
D. /sbin/mke2fs -c ext3 /dev/hda2

Answer: B

QUESTION 120
You want the default permissions for your files to bE.rw-r-. How must you set umask?

A. 037
B. 640
C. 038
D. 027

Answer: A

QUESTION 121
Which of the following file permissions belong to a symbolic link?

A.   -rwxrwxrwx
B.   +rwxrwxrwx
C.   lrwxrwxrwx
D.   srwxrwxrwx

Answer: C

QUESTION 122
Creating a hard link to an ordinary file returns an error. What could be the reason for this?

A.   The source file is hidden.
B.   The source file is read-only.
C.   The source file is a shell script.
D.   The source file is already a hard link.
E.   The source and the target are on different filesystems.

Answer: E

QUESTION 123
Which of the following commands creates an ext3 filesystem on /dev/sdb1? (Choose TWO.)

A.   /sbin/mke2fs -j /dev/sdb1
B.   /sbin/mkfs -t ext3 /dev/sdb1
C.   /sbin/mkfs -c ext3 /dev/sdb1
D.   /sbin/mke3fs -j /dev/sdb1

Answer: AB

QUESTION 124
Which of the following commands will change the quota for a specific user?

A.   edquota
B.   repquota
C.   quota -e
D.   quota

Answer: A

QUESTION 125
Which utility would be used to change how often a filesystem check is performed on an ext2 filesystem without losing any data stored on that filesystem?

A.   mod2fs
B.   fsck
C.   tune2fs
D.   mke2fs

E.   fixe2fs

Answer: C

QUESTION 126
Which of the following statements is correct regarding the command foo 1> bar?

A.   The stdout from the command foo is appended to the file bar.
B.   The stdout from the command foo overwrites the file bar.
C.   The command foo receives its stdin from the file bar.
D.   The command foo receives its stdin from the stdout of the command bar.
E.   The stderr from the command foo is saved to the file bar.

Answer: B

QUESTION 127
Which of the following commands kills the process with the PID 123 but allows the process to "clean up" before exiting?

A.   kill -PIPE 123
B.   kill -KILL 123
C.   kill -STOP 123
D.   kill -TERM 123

Answer: D

QUESTION 128
What is the maximum niceness value that a regular user can assign to a process with the nice command when executing a new process?

A.   9
B.   19
C.   49
D.   99

Answer: B

QUESTION 129
Immediately after deleting 3 lines of text in vi and moving the cursor to a different line, which single character command will insert the deleted content below the current line?

A.   i (lowercase)
B.   P (uppercase)
C.   p (lowercase)
D.   U (uppercase)
E.   u (lowercase)

Answer: C

QUESTION 130
A user accidentally created the subdirectory \dir in his home directory. Which of the following commands will remove that directory?

A. rmdir '~/\dir'
B. rmdir "~/\dir"
C. rmdir ~/'dir'
D. rmdir ~/\dir
E. rmdir ~/\\dir

Answer: E

QUESTION 131
In compliance with the FHS, in which of the directories are man pages found?

A. /usr/share/man
B. /opt/man
C. /usr/doc/
D. /var/pkg/man
E. /var/man

Answer: A

QUESTION 132
Which of the following commands will send output from the program myapp to both standard output (stdout) and the file file1.log?

A. cat < myapp | cat > file1.log
B. myapp 0>&1 | cat > file1.log
C. myapp | cat > file1.log
D. myapp | tee file1.log
E. tee myapp file1.log

Answer: D

QUESTION 133
What is the purpose of the Bash built-in export command?

A. It allows disks to be mounted remotely.
B. It runs a command as a process in a subshell.
C. It makes the command history available to subshells.
D. It sets up environment variables for applications.
E. It shares NFS partitions for use by other systems on the network.

Answer: D

QUESTION 134
What is the output of the following command?
```
echo "Hello World" | tr -d aieou
```

A. Hello World
B. eoo
C. Hll Wrld
D. eoo Hll Wrld

Answer: C

QUESTION 135
Which of the following kernel parameters instructs the kernel to suppress most boot messages?

A. silent
B. verbose=0
C. nomesg
D. quiet

Answer: D

QUESTION 136
Which of the following options for the kernel's command line changes the systemd boot target to rescue.target instead of the default target?

A. systemd.target=rescue.target
B. systemd.runlevel=rescue.target
C. systemd.service=rescue.target
D. systemd.default=rescue.target
E. systemd.unit=rescue.target

Answer: E

QUESTION 137
After modifying GNU GRUB's configuration file, which command must be run for the changes to take effect?

A. kill -HUP $(pidof grub)
B. grub-install
C. grub
D. No action is required

Answer: D

QUESTION 138
Which of the following commands is used to update the list of available packages when using dpkg based package management?

A. apt-get update
B. apt-get upgrade
C. apt-cache update
D. apt-get refresh
E. apt-cache upgrade

Answer: A

QUESTION 139
Which of the following commands lists the dependencies of a given dpkg package?

A. apt-cache depends-on package

B. apt-cache dependencies package
C. apt-cache depends package
D. apt-cache requires package

Answer: C

QUESTION 140
Which of the following options is used in a GRUB Legacy configuration file to define the amount of time that the GRUB menu will be shown to the user?

A. hidemenu
B. splash
C. timeout
D. showmenu

Answer: C

QUESTION 141
You have run out of disk space on a partition. Which of the following would be an easy way to move data to a new partition without reconfiguring the path to the data in existing applications?

A. Run ext2fs ACL.
B. Use a hard link.
C. Use a symbolic link.
D. Use the loopback device.
E. Create a block device offset.

Answer: C

QUESTION 142
You ran out of space and added a eighth disk to your SCSI-1 system. When you try to start, the system no longer boots. What is most likely the cause of this problem?

A. SCSI-1 supports only 8 devices including the adaptor.
B. SCSI-1 supports only 6 disks per adaptor.
C. There is a SCSI-ID conflict that causes that problem.
D. You forgot to set the SCSI-ID #8 for the new disk.

Answer: A

QUESTION 143
Which of the following commands makes /bin/foo executable by everyone but writable only by its owner?

A. chmod 557 /bin/foo
B. chmod o+rwx.a+rx/bin/foo
C. chown 557 /bin/foo
D. chmod 755/bin/foo

Answer: D

QUESTION 144

You are running Linux 2.0.36 and you need to add a USB mouse to your system. Which of the following statements is true?

A. You need to rebuild the kernel.
B. You need to upgrade the kernel.
C. You need to load the USB modules for your existing modular kernel.
D. USB support is not available in Linux.

Answer: B

QUESTION 145
Which system administration command you can use to update Id.so.cache after the installation of new shared libraries?

A. Idconfig
B. Idd
C. libpath
D. newlibs

Answer: A

QUESTION 146
Which of the following is the output when the below shell script executes?
```
cat <<foobar Hello foobar foobar
```

A. The contents of the file foobar.
B. Hello.
C. No output but a file named foobar is created.
D. Hello foobar.
E. Hello foobar foobar.

Answer: D

QUESTION 147
Which of the following Debian package system commands will list all partially installed packages and suggest how to get them correctly installed?

A. dpkg -C
B. apt-get -u
C. dpkg -Dh
D. dpkg -l
E. apt-get -y

Answer: A

QUESTION 148
What information is displayed by the command cat/proc/dma?

A. whether DMA is enabled
B. which DMA channels are in use
C. which DMA mode is in use

D.   general information about DMA on the machine

Answer: A

QUESTION 149
Which shell built-in command can be used to create a shortcut or pseudonym for a longer command?

A.   shortcut
B.   in
C.   sudo
D.   link
E.   alias

Answer: E

QUESTION 150
Which command displays information about connected USB devices?

A.   cat /proc/usb/devices
B.   cat /proc/bus/usb/devices
C.   cat /proc/usbdevices
D.   cat /proc/usbbus/devices
E.   cat /proc/hotplug/usb

Answer: B

QUESTION 151
Which of the following commands is run LAST during boot on a system with quotas enabled?

A.   fsck
B.   mount
C.   quotacheck
D.   quotaon

Answer: D

QUESTION 152
After installing and configuring XFree86, you notice that when you start X, the display is not centered. What program can you run to find a better modeline setting?

A.   XF86Setup
B.   xf86config
C.   xvidtune
D.   xvideoagent

Answer: C

QUESTION 153
According to the File System Hierarchy Standard, the lost+found directory is used for _____.

A.   files with unknown owners

B. missing device files found by/proc
C. unknown binary files found by find
D. unlinked files found by fsck

Answer: D

QUESTION 154
Which of the following commands will display the last 30 lines of /var/log/bigd.log as well as new content as it is appended to the file by another process?

A. cut-30-v/var/log/bigd.log
B. head-30-e/var/log/bigd.log
C. tail-f-n 30/Var/log/bigd.log
D. tac-30/var/log/bigd.log
E. cat-r-n 30/var/log/bigd.log

Answer: C

QUESTION 155
The sticky bit is usually set on _____.

A. /var/log
B. /tmp
C. /home
D. log files

Answer: B

QUESTION 156
Which of the following command line redirection characters instructs the shell to read from the current input source until a specific word, on a separate line and without and trailing spaces, is reached?

A. <<
B. <|
C. !<
D. &<<

Answer: A

QUESTION 157
In order to append the output of Is to a file called bazz, which of the following command lines would you use?

A. is > bazz
B. is > &bazz
C. is &> bazz
D. is ? bazz

Answer: D

QUESTION 158

Which of the following commands will send output from the program myapp to both standard output (stdout) and the file file1.log?

A. cat < myapp | cat > file1.log
B. myapp 0>&1 | cat > file1.log
C. myapp | cat > file1.log
D. myapp | tee file1.log
E. tee myapp file1.log

Answer: D

QUESTION 159
To what environment variable will an administrator assign or append a value if the administrator needs to tell the dynamic linker to look in a build directory for some of a program's shared libraries?

A. LD_LOAD_PATH
B. LD_LIB_PATH
C. LD_LIBRARY_PATH
D. LD_SHARE_PATH
E. LD_RUN_PATH

Answer: C

QUESTION 160
Which of the following commands will print the current video settings to stdout in XF86Config "Modeline" format?

A. xinfo-mode
B. xset-info
C. xf86config -list
D. xvidtune -show

Answer: D

QUESTION 161
You want to preview where the package file, apachE.xml.i386.rpm, will install its files before installing it. What command do you issue?

A. rpm-qp apachE.xml.i386.rpm
B. rpm-qv apachE.xml.i386.rpm
C. rpm-ql apachE.xml.i386.rpm
D. rpm-qpl apachE.xml.i386.rpm

Answer: D

QUESTION 162
What single command (no options or arguments) can be used to fully extract a file called abc.tar.bz2?

A. gzip
B. gunzip
C. tar

D. bz2unzip

Answer: C

QUESTION 163
Which of the following is the default Xorg configuration file?

A. /usr/X11 R6/etcAtorg.conf
B. /var/X11Atorg.conf
C. /etc/X11/Xorg.conf
D. /usr/etcyxi1Atorg.conf

Answer: C

QUESTION 164
On a system using shadowed passwords, the correct permissions for /etc/passwd are _____ and the correct permissions for /etc/shadow are _____.

A. rwr, r
B. rwrr, rrr
C. rwrr, r
D. rwrrw,rr
E. rw, r

Answer: C

QUESTION 165
The correct crontab entry to execute the script chklog once per hour between 3 p.m. and 5 p.m. on Monday and Thursday each week is _____.

A. 0 3,4,5 * * 2,5 chklog
B. 0 3,4,5 * * 1,4 chklog
C. 0 15,16,17 * * 1,4 chklog
D. 0 15,16,17 1,4 * * chklog
E. * 15,16,17 * * 1,4 chklog

Answer: C

QUESTION 166
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.

Answer: C

QUESTION 167
You have a user whose account you want to disable but not remove. What should you do?

A. Edit /etc/gshadow and just remove his name.

B. Edit /etc/passwd and change all numbers to 0.
C. Edit /etc/shadow and remove the last field.
D. Edit /etc/passwd and insert an * after the first : .
E. Edit /etc/group file and put a # sign in front of his name.

Answer: D

QUESTION 168
Which crontab entry could be used to set the system time at regular intervals?

A. 1 0 * * * date $d $t $24
B. 1 0 * * * settime $d $t $24
C. 1 0 * * * date <ntp1.digex.net
D. 1 0 * * * /usr/sbin/runcron date <ntp1.digex.net
E. 1 0 * * * /usr/sbin/ntpdate ntp1.digex.net > /dev/null 2>&1

Answer: E

QUESTION 169
Identify the statement that would create a default route using a gateway of 192.168.1.1.

A. netstat add defaultgw
B. route default 192.168.1.1
C. ip route default 192.168.1.1
D. route add defaultgw 192.168.1.1
E. ifconfig defaultgw 192.168.1.1 eth0
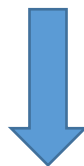
Answer: D

QUESTION 170
X is running okay but you're concerned that you may not have the right color depth set. What single command will show you the running color depth while in X?

A. xcd
B. xcdepth
C. xwininfo
D. xcolordepth
E. cat /etc/X11

Answer: ......

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