Which filesystem is used to store information about current running processes?

A. /environment

B. /proc

C. /etc

D. /dev

What is the default directory for configuration information related to the modprobe

command?

A. /etc/modprobe.conf

B. /etc/modprobe

C. /etc/modprobe.d

D. /var/modprobe

Which of the following wall commands send the message "Please Log Off" to users in

the operator group?

A. wall -g operator "Please Log Off"

B. wall "Please Log Off"

C. wall -operator "Please Log Off"

D. echo "Please Log Off" | group operator

Which option to dmesg displays the time in local time?

A. -rel

B. -e

C. -f

D. -t

Which process ID is typically associated with the init process?

A. 0

B. 1

C. 5

D. 100

You have been troubleshooting a system issue that may be related to the driver in use for a

PCI device in the system. Which command and option will display the PCI devices and the

drivers being used for those devices?

A. lsusb -v

B. ls -pci

C. lspci -k

D. showpci

Which option to the telinit command will cause the operation to not send any notice to

logged-on users?

A. -q

B. -v

C. --no-wall

D. -l

Which file in the sysfs filesystem could you view in order to see the MAC address of eth0?

A. /sys/class/net/eth0/address

B. /sys/devices/eth0

C. /sysfs/devices/eth0

D. /sys/net/eth0

When using systemctl to kill a process, what is the default signal sent to a process?

A. SIGKILL

B. SIGTERM

C. SIGINT

D. SIGCALL

A newly added Serial ATA (SATA) disk is not showing up during the boot process. Where

can you check to begin troubleshooting this issue?

A. Using system logging

B. Using debugfs

C. Within the fdisk utility

D. Within the computer BIOS

Which command can be used to monitor communication taking place with dbus?

A. dbus-mon

B. dbus -m

C. dbus-monitor

D. dbus-debug

Within a systemd environment, which service manages udev?

A. systemd-udevd.service

B. systemd-udev.service

C. udevd-service

D. systemd.udevd-service

What is the correct syntax to indicate that the system should shut down at 8 p.m.?

A. shutdown 20:00

B. shutdown 8pm

C. shutdown +20:00

D. halt 20

Which option to the systemctl kill command will change the signal sent to the process

to be killed?

A. -k

B. -f

C. -s

D. -d

Which systemd command and option is equivalent to the chkconfig --list command in

a SysVinit environment?

A. systemctl list-unit-files

B. systemctl list-service

C. systemctl --list

D. systemctl list-unit-files --type=service

Which option to ldconfig is used to change the location of the cache to be updated?

A. -C

B. -c

C. --f

D. -v

Which of the following commands will remove all files for a package in Debian, including

configuration files?

A. apt-get remove

B. apt-cache clean

C. dpkg -P

D. apt-get conf-remove

What is the prefix used to denote a Debian source repository in /etc/apt/sources.list?

A. deb

B. source

C. deb-src

D. debsrc

Which options to rpm will upgrade a package while displaying progress and other addi-

tional information about the operation?

A. -Iv

B. -Uvh

C. -U

D. -vh

Which option to a yum install command will cause yum to assume yes and therefore not

prompt for verification when performing actions deemed critical?

A. -y

B. -f

C. -p

D. -m

When working with a yum-based system, you need to create a configuration to ensure that

certain packages are not upgraded or installed. Which option can you set in /etc/yum

.conf to facilitate this behavior?

A. exclude

B. noupdate

C. assumeupdate

D. clearupdate

You are having difficulty with shared libraries on the system. Which of the following com-

mands will print the current directories and libraries in the cache?

A. ldconfig -C

B. ldd -f

C. ldconfig -p

D. ldd -b

Which option within a .repo file in /etc/yum.repos.d/ is used to set the URL for the

repository?

A. url

B. repourl

C. httpurl

D. baseurl

Which command and option is used to display basic information about each available pack-

age and its dependencies on a Debian system?

A. apt-get list

B. apt-cache dump

C. apt-get list-all

D. apt-cache list

When running the lsblk command, there is no separate partition listed for /boot. From

which partition is the system likely booted?

A. There is a /boot directory under the / partition.

B.The /boot partition is hidden.

C. The system has not yet built the /boot partition.

D. The /boot partition does not show up with lsblk.

Within which hierarchy is cached data stored for both yum- and apt-style systems?

A. /etc

B. /var/cache

C. /usr/lib

D. /tmp

On a BIOS-based system, within which region of the disk is the boot loader typically

installed?

A. MBR

B. /boot

C. Sector 8192

D. Front

Which of the following best describes the contents of the / filesystem within Linux?

A. The / filesystem is the root filesystem and contains temporary files.

B. The / filesystem is root’s home directory.

C. The / filesystem is used for storage of device and swap information.

D. The / filesystem is the root filesystem and is the logical root of the hierarchy within

Linux.

Which of the following commands will send the output of the grub-mkconfig command to

the correct location for booting?

A. grub-mkconfig --output=/boot/grub2/grub.cfg

B. grub-mkconfig --file=/boot/grub2.menu

C. grub-mkconfig --file=/boot/grub.lst

D. grub-mkconfig --output=/boot/menu.lst

Which of the following commands writes an image called from the current directory called

raspbian.img to the SD card mounted at /dev/sdc?

A. dd if=raspbian.img of=/dev/sdc bs=1M

B. imgwrite raspbian.img > /dev/sdc

C. imgw raspbian.img | cat /dev/sdc

D. dd raspbian.img > /dev/sdc

When troubleshooting a problem, you look through .bash\_history to determine com-

mands that you’ve recently executed. However, the file does not contain information from

your current session. Which command can you use to view the commands that have been

executed during the current session?

A. cmdhist

B. cmds

C. pwd

D. history

Which option should be sent to grub-install if you want to install the boot images within

a directory other than /boot?

A. --boot

B. --image

C. --boot-directory

D. --b

Which command should be run in order to make changes take effect for a GRUB2 configu-

ration change?

A. update-grub

B. grub-update

C. grub-config

D. grub-ins

Which of the following commands will set the environment variable JAVA\_PATH equal to

/home/user/java2 when using the Bash shell?

A. invoke JAVA\_PATH=/home/user/java2

B. export JAVA\_PATH=/home/user/java2

C. envvar JAVA\_PATH=/home/user/java2

D. echo JAVA\_PATH=/home/user/java2

Which option in the .bashrc sets the number of commands to keep in the .bash\_history file?

A. HISTLIMIT

B. HISTORYFILE

C. HISTFILESIZE

D. HISTNUM

Which of the following commands will cause nl to number all lines, including blank lines,

for a file called code.php?

A. nl code.php

B. nl -a code.php

C. nl -n code.php

D. nl -b a code.php

Which command can be used to create an octal representation of a given plaintext file?

A. oct

B. cat

C. list

D. od

Which command and option can be used to format text with pagination in a double-space

format, including page numbers?

A. pr -d

B. pag -db

C. cat -pd

D. print -d

Of the following options for the tail command, which option outputs the last lines begin-

ning at the 30th line from the start of the file rather than the end of the file?

A. -n +30

B. -n 30

C. -30

D. +30

Which option to the uniq command causes the matching to be done in a case-insensitive

manner?

A. -c

B. -f

C. -i

D. -n

Which of the following commands prints the username and real name of all users in

/etc/passwd in a tab-separated format?

A. cut -d: -f 1,6 /etc/passwd

B. sed 's/://' /etc/passwd

C. awk -F: '{print $1,$5}' OFS="\t" /etc/passwd

D. cat -o "\t" /etc/passwd

Which option to cp will preserve symlinks in a recursive copy?

A. -f

B. -d

C. -a

D. -bChapter 11

Which of the following key combinations is a technique for moving to the 23rd line of a file

in Vi?

A. 23G

B. /23

C. i23

D. ZZ

Which option to the top command changes the update interval?

A. -d

B. -t

C. -n

D. -f

Which of the following commands will display the process ID, the real user ID, the filesys-

tem access user ID, and command for processes on the system?

A. listproc -uf

B. ps -eo pid,euser,fuser,comm

C. ps -e pid,user,comm

D. ps -fa

Which command can be used to search the contents of all files below your current location

for files that contain the characters DB?

A. grep -r "DB" \*

B. grep -ri "DB" \*

C. cat \* | less

D. cat \*.txt | grep DB

Which of the following commands will locate all files that begin with the name DB, start-

ing from the current directory?

A. locate "DB\*"

B. find ./ -name "DB\*"

C. whereis "DB\*"

D. find "DB\*"

Which of the following files is the location used to gather information about load average

for use in the uptime command?

A. /proc/uptime

B. /proc/loadavg

C. /proc/load

D. /proc/utimeChapter 11

When running fsck on an EXT3 filesystem, which option to fsck causes the operation to

prompt when attempting a repair action?

A. -y

B. -f

C. -a

D. No option required

Which of the following files is updated dynamically with information about currently

mounted filesystems?

A. /etc/fstab

B. /etc/files

C. /boot/fstab

D. /etc/mtab

When running the df command, you need to change the scale so that the report shows tera-

bytes instead of bytes. Which option will accomplish this task?

A. -ST

B. -BT

C. -j

D. -T

What command can be used to create an image of important metadata for an ext3 filesys-

tem?

A. e2image

B. e3image

C. dumpe2fs

D. dumpe3fs

Which option to mke2fs is used to check for bad blocks during filesystem creation?

A. -a

B. -b

C. -c

D. -d

Which of the following commands changes the ownership of the file called Class.java to

the user steve and the group developers?

A. chgrp steve:developers Class.java

B. chown steve.developers Class.java

C. chown developers.steve Class.java

D. chown Class.java steve.developersChapter 11

When bootstrapping a virtual machine, which command can be used to add the fingerprint

of a server to the known\_hosts file?

A. ssh-keyscan

B. ssh-keyadd

C. ssh-keylist

D. ssh-getkey

Which configuration option can be set within /etc/default/grub to affect the behavior of

the system after a failed boot?

A. GRUB\_RECOVER

B. GRUB\_NOFAIL

C. GRUB\_RECORDFAIL\_TIMEOUT

D. GRUB\_RECOVER\_TIMEOUT

Which options to du will print a summary of information in a human-readable format?

A. -sh

B. -h

C. -s

D. -su

Which option to the find command causes it to follow symbolic links?

A. -S

B. -H

C. -P

D. -L

Which option to the tee command enables appending to the destination files rather than

overwriting?

A. -a

B. -m

C. -g

D. -d

When creating a backup for a system, which directory should be included so that most con-

figuration files will be backed up?

A. /var

B. /opt

C. /etc

D. /bin