

Graded: March 31, 2022, 11:32 a.m.

CORRECT - See Section 1.3.2

The two login types are:

CLI and GUI

CORRECT - See Section 1.3

The location of users' default shells is stored in the _____ file.

/etc/passwd

CORRECT - See Section 1.3.1

Commands are interpreted by the shell and transformed into actions by the kernel.

True

CORRECT - See Section 2.3

Which of the following are valid command lines?

(choose two)

`ls /etc -l`

`ls -l /etc`

CORRECT - See Section 2.9.6

Shell command man pages are typically located in section ____.

1

CORRECT - See Section 2.3.1.1

A pair of single quotes ' ' will prevent the shell from interpreting any special character.

True

CORRECT - See Section 3.2.2

Environment variables can be viewed by running:

(choose two)

`env`

`export -p`

CORRECT - See Section 3.2.1

Environment variables cannot be created by which command?

`set`

CORRECT - See Section 3.2.4

The `/bin` directory contains:

The most fundamental commands that are essential for the operating system to function

CORRECT - See Section 3.2.4

When specifying a path, the `.` character symbolizes the current directory.

`.`

CORRECT - See Section 4.4

You can combine glob characters in a single pattern, for example: `a??*[0-9]`.

True

CORRECT - See Section 4.2

Which glob character matches *zero or more characters*?

`*`

CORRECT - See Section 5.4

Using the `touch` command and specifying a nonexistent file...

creates a blank file with that name.

CORRECT - See Section 5.8

The `mkdir` command **cannot** be used to:

Delete a directory

CORRECT - See Section 6.3.1

The _____ command will search for files using a database of all files, which is generated on demand or scheduled.

`locate`

CORRECT - See Section 6.2

Which directory is used to store temporary files?

`/tmp`

CORRECT - See Section 7.11

Which command will remove consecutive duplicate lines from a file?

`uniq`

CORRECT - See Section 7.5

Which option of the `head` command will display only the first six lines of a file?

(choose two)

`-6`
`-n 6`

CORRECT - See Section 9.4

If you are in `vi command mode` and want to begin inserting text at the end of the line, you can type:

`A`

CORRECT - See Section 9.3

To search forward from your cursor in your `vi` document in `command mode`, you can type `___` followed by the pattern to search for.

`/`

CORRECT - See Section 10.2

Which of the following commands will take the standard output of the `echo` command and put it into the `/tmp/output.txt` file:

`echo > /tmp/output.txt`

CORRECT - See Section 11.2.8

A signal is:

A technique to tell a process to take some sort of action

CORRECT - See Section 11.2.6

In order to run a command called `cmd1` in the background, you would type:

`cmd1&`

CORRECT - See Section 11.2.6

Placing a _____ character at the end of the command line will put the command in the background.

`&`

CORRECT - See Section 11.2.10

To change the niceness value of an existing process, you can use the _____ command.

`renice`

CORRECT - See Section 11.2.4

To execute a command called `cmd1` as a foreground process, you would type:

`cmd1`

CORRECT - See Section 11.2.10

To execute a command with the default priority, which value do you pass to the `nice` command?

`0`

CORRECT - See Section 11.3

To see how long the system has been running, you can use the _____ command.

`uptime`

CORRECT - See Section 11.2.6

To see the list of background processes that you have started in your shell, you can run:

`jobs`

CORRECT - See Section 11.2.2

Which command will find all processes owned by user `fred` ?

`pgrep -u fred -l`

CORRECT - See Section 11.4.1

The `screen` command can detach and re-attach terminal sessions.

True

CORRECT - See Section 12.4

`gzip` and `bzip` are aliases for the same utility.

False

CORRECT - See Section 12.8

The `tar` command supports:

Both gzip and bzip2 compression

CORRECT - See Section 12.8

The `tar` command supports which of the following styles of option(s)?

(choose three)

BSD
GNU
Unix

CORRECT - See Section 12.2

By default the `gzip` command replaces uncompressed files with compressed files.

True

CORRECT - See Section 12.11

Which of the following is not a valid argument for the `dd` command?

`in`

WRONG - See Section 12.6

Which command will uncompress the file `letters.txt.xz` ?

`xz -b letters.txt.xz`

CORRECT - See Section 13.3

Assuming everyone has access to the directory the file is in, who can view the contents of a file with permissions of `rw-r---x` ?

Both the user owner and group owners

CORRECT - See Section 13.3

For `rwxr-x--x` permission set, the highlighted permissions belong to:

All users besides the user owner and group owner

CORRECT - See Section 13.3

For the `rwxr-x--x` permission set, the highlighted permissions belong to:

The group owner of the file

CORRECT - See Section 13.3

For the `rwxr-x--x` permission set, the highlighted permissions belong to:

The user owner of the file

CORRECT - See Section 13.4.2
The command, `chmod 0777 /data` will:

Remove all special permissions

CORRECT - See Section 13.3
The group ownership of a file may only be changed by:

Both the root user and the owner of the file

CORRECT - See Section 13.6
The setuid permission on a file:

Causes the file to run under the owner's identity

CORRECT - See Section 13.6.2.2
Using the setgid permission on a directory:

Causes new files created in the directory to be owned by the group that owns the directory

CORRECT - See Section 13.2.2
Which command can change the user owner of a file?

`chown`

CORRECT - See Section 13.4
Which command is used to change permissions on a file?

`chmod`

CORRECT - See Section 14.4
If you have a file named `/tmp/hosts` pointing to a file named `/etc/hosts` and the `/etc/hosts` file is deleted, then which of the following statements is true?

The `/tmp/hosts` file now points to nothing

CORRECT - See Section 14.2
When viewing a file with the `ls -l` command, which character represents a file type of soft link?

`l`

CORRECT - See Section 14.4
Which type of link can be made to a file on another filesystem, hard or soft?

soft

CORRECT - See Section 14.4
Which type of link can be made to directories, hard or soft?

soft

CORRECT - See Section 14.4
Which type of link is indistinguishable by programs from regular files, hard or soft?

hard

CORRECT - See Section 14.3
Which value represents the inode number in the following output of the `ls -li` command:

```
87589 -rw-r--r--. 2 root root 83 Mar 4 22:45 myhosts
```

87589

CORRECT - See Section 15.6
What is the notification mechanism used to inform programs about a change in state of hardware devices?

HALD uses dbus to send notifications

CORRECT - See Section 15.5
Which of the following commands is used to view the network interface controller connected on the PCI bus?

`lspci`

CORRECT - See Section 16.1

The fourth stage of the boot process is:

The init phase

CORRECT - See Section 16.6

Which directory is used primarily for storing log messages?

`/var/log`

WRONG - See Section 17.4

In GRUB Legacy, the password directive in the title directive setting means:

To edit any GRUB values, a password must first be entered

CORRECT - See Section 18.8

Which command is used to view the services that are set to start or stop automatically?

`chkconfig`

CORRECT - See Section 19.2.2

A device name of `/dev/sda1` indicates this partition is on which type of device?

SATA

CORRECT - See Section 19.3

Which directories are typically writable to all users?

(choose two)

`/tmp`

`/var/tmp`

WRONG - See Section 20.10.1

If you want to initialize swap space that you've just created, which command would you run?

`swapon`

CORRECT - See Section 21.4

If you want to unmount a partition, which command should you use?

`umount`

CORRECT - See Section 21.5

The sixth field in the `/etc/fstab` file is used to specify:

The fsck order

CORRECT - See Section 22.3

The _____ command will display how much space a filesystem has free?

`df`

CORRECT - See Section 23.2

Which option to the `fsck` command forces a system check?

`-f`

CORRECT - See Section 23.2

Which option to the `fsck` command will allow you to specify the filesystem type?

`-t`

CORRECT - See Section 24.3

In what directory are yum repository configuration files stored?

`/etc/yum.repos.d`

CORRECT - See Section 25.2

Which command can an administrator run to rebuild the cache of shared libraries?

`ldconfig`

CORRECT - See Section 25.2

Which of the following contents is in the `ldconfig` configuration file by default?

`include ld.so.conf.d/*.conf`

CORRECT - See Section 25.1

Which two directories are automatically searched for shared libraries?

(choose two)

`/lib`

`/usr/lib`

CORRECT - See Section 26.2

A bare-metal hypervisor runs directly on top of physical hardware

True

CORRECT - See Section 15.5

Which of the following can be used to view details about USB devices?

(choose two)

`lsusb`

`usb-devices`

CORRECT - See Section 16.5

Which programs have emerged to compete with and replace the traditional `init` process:

(choose two)

Upstart

Systemd

CORRECT - See Section 17.2

What version of GRUB is the most modern version?

GRUB 2

CORRECT - See Section 17.1

Which of the following are valid Linux bootloaders?

(choose two)

GRUB/GRUB2

LILO

WRONG - See Section 18.1

Which runlevel number is defined as *user-definable*?

3

CORRECT - See Section 20.3

Which command is used from the command line, to edit your disk's partition table?

`fdisk`

CORRECT - See Section 20.6.1

Which command is used to create a volume group?

`vgcreate`

CORRECT - See Section 24.5.5

Which two commands will show detailed information about a Debian package?

(choose two)

`dpkg -s`

`apt-cache show`