1.In addition to loading the operating system (OS), what other purpose might a boot loader serve?

* Incorrect -

To allow the system to boot without a Master Boot Record

* Incorrect -

To prevent the unauthorized removal of an installed storage volume

* Your choice: correct -

To provide a multi-OS boot environment

* Incorrect -

To prevent booting to an alternate media

* Incorrect -

I don't know yet.

2.What would you type in Bash to view your shell's current environment variables?

* Correct -

env

* Incorrect -

ls $env

* Your choice: incorrect -

$env

* Incorrect -

$set

* Incorrect -

I don't know yet.

3.You must create a folder named spreadsheets in a user's Documents directory. Your print working directory (PWD) is /home/username. What command would you use?

* Incorrect -

nd Documents/spreadsheets

* Correct -

mkdir Documents/spreadsheets

* Your choice: incorrect -

mkdir /Documents/spreadsheets

* Incorrect -

md Documents/spreadsheets

* Incorrect -

I don't know yet.

4.What command would you use to change a file's group to root for a file named users.txt?

* Incorrect -

sudo chown root users.txt

* Your choice: correct -

sudo chgrp root users.txt

* Incorrect -

sudo chgrp users.txt

* Incorrect -

sudo chmod root:root users.txt

* Incorrect -

I don't know yet.

5.On a default installation, what command removes an existing user for a CentOS based system?

* Correct -

userdel

* Incorrect -

removeuser

* Your choice: incorrect -

deluser

* Incorrect -

delaccount

* Incorrect -

I don't know yet.

6.You attempt to connect via Secure Shell (SSH) to the host at 192.168.1.100 and you receive the following error:

ssh: connect to host 192.168.1.100 port 22: Connection refused.

What is your next course of action?

* Incorrect -

Ping the target IP to ensure it is online

* Correct -

Verify the SSH server is installed and active on the target host

* Incorrect -

Attempt to connect using putty

* Your choice: incorrect -

Connect using port 23

* Incorrect -

I don't know yet.

7.What command displays a live view of processes and their priorities?

* Incorrect -

get-process

* Your choice: incorrect -

pslist

* Correct -

top

* Incorrect -

kill

* Incorrect -

I don't know yet.

8.What does chmod -R 764 /Documents do?

* Incorrect -

The command assigns user RWX, group RW, and Others R to only files in the folder /Documents.

* Correct -

The command recursively assigns user RWX, Group, RW, and Others R to all files and folders within /Documents.

* Your choice: incorrect -

The command removes (-R) all permissions 764 from files within /Documents.

* Incorrect -

The command assigns user RWX, group RW, and Others R to only folders in the folder /Documents.

* Incorrect -

I don't know yet.

9.In the command-option-argument structure, what is the function of option?

* Incorrect -

option is an additional embedded optional command.

* Your choice: incorrect -

option is a switch to toggle the command as active or inactive.

* Incorrect -

option is a filename or other data used by the command for input.

* Correct -

option is a switch or flag that modifies the behavior of the command.

* Incorrect -

I don't know yet.

10.You type a command to view the end of the file dirs.txt and receive the following message:

tail: cannot open 'dirs.txt' for reading: Permission denied.

At minimum (ignoring any other user and file system needs), what command must you run to allow at least the file's owner to view the end of the file?

* Incorrect -

chmod 444 dirs.txt

* Correct -

chmod 400 dirs.txt

* Your choice: incorrect -

chown 400 dirs.txt

* Incorrect -

chmod +w dirs.txt

* Incorrect -

I don't know yet.

11.What application allows you to install third-party software on an Ubuntu system?

* Incorrect -

LXD

* Correct -

APT

* Incorrect -

RPM

* Your choice: incorrect -

Yum

* Incorrect -

I don't know yet.

12.What is the printers.conf file?

* Incorrect -

A file that manages the print jobs and displays printer status

* Your choice: correct -

A file that maintains printer specific settings for every printer connected to the system

* Incorrect -

A file that maintains user-specific settings

* Incorrect -

A file that identifies the location of print drivers for connected printers

* Incorrect -

I don't know yet.

13.What folder is the generic mount point for file systems or devices?

* Incorrect -

/proc

* Incorrect -

/var

* Correct -

/mnt

* Your choice: incorrect -

/mount

* Incorrect -

I don't know yet.

14.What command allows you to view all recently used commands on the system?

* Incorrect -

sh history

* Incorrect -

get-history

* Your choice: incorrect -

history -l

* Correct -

history

* Incorrect -

I don't know yet.

15.Which action will display your hardware device profile on your Linux system?

* Incorrect -

Find the hardware config file in the etc folder.

* Incorrect -

Open the Device Manager.

* Your choice: correct -

Type lshw from the terminal.

* Incorrect -

Open the System Settings.

* Incorrect -

I don't know yet.

16.What command provides the user with the ability to schedule tasks or processes?

* Correct -

crontab

* Incorrect -

scheduler

* Your choice: incorrect -

task scheduler

* Incorrect -

chronos

* Incorrect -

I don't know yet.

17.You need to list the permission and ownership of the file users.txt. What would you do to accomplish this task?

* Incorrect -

Issue ls -o users.txt

* Correct -

Issue ls -l users.txt

* Incorrect -

Issue ls users.txt

* Your choice: incorrect -

Issue ls -a users.txt

* Incorrect -

I don't know yet.

18.What is the primary difference between Red Hat Enterprise Linux (RHEL) and CentOS?

* Incorrect -

RHEL and CentOS revolve around different code bases.

* Correct -

RHEL requires a paid license for most use cases.

* Incorrect -

RHEL is community driven.

* Your choice: incorrect -

CentOS focuses on stability.

* Incorrect -

I don't know yet.

1.

On a default installation, what command removes an existing user for a CentOS based system?

* Incorrect -

removeuser

* Incorrect -

delaccount

* Incorrect -

deluser

* Your choice: correct -

userdel

* Incorrect -

I don't know yet.

2.

After you update the system repositories, what would you execute to apply the updates on Ubuntu?

* Your choice: correct -

sudo apt upgrade

* Incorrect -

sudo apt-get update

* Incorrect -

sudo upgrade

* Incorrect -

sudo apt install

* Incorrect -

I don't know yet.

3.

What command creates a shadow file?

* Incorrect -

shadowadd

* Incorrect -

cat /etc/shadow

* Your choice: correct -

pwconv

* Incorrect -

addshadow

* Incorrect -

I don't know yet.

4.

Which flag would you add to a useradd command in a CentOS system if you wanted to add new users to one or more additional groups?

* Your choice: correct -

-G

* Incorrect -

-g

* Incorrect -

-AG

* Incorrect -

-g+

* Incorrect -

I don't know yet.

5.

Which Linux desktop is best suited for older, slower, or low-powered hardware?

* Incorrect -

Cinnamon

* Your choice: correct -

XForms Common Environment (Xfce)

* Incorrect -

K Desktop Environment (KDE)

* Incorrect -

Gnome 3

* Incorrect -

I don't know yet.

6.

What is the default nice setting for a new process in Linux?

* Incorrect -

$null

* Incorrect -

1

* Your choice: correct -

0

* Incorrect -

100

* Incorrect -

I don't know yet.

7.

Which package must be installed and configured to allow for incoming Secure Shell (SSH) connections to Linux systems?

* Incorrect -

ssh

* Incorrect -

sshd

* Your choice: correct -

openssh-server

* Incorrect -

putty.exe

* Incorrect -

I don't know yet.

8.

At a minimum, which is a valid tar command?

* Your choice: correct -

tar cf archive.tar foo.txt

* Incorrect -

tar -f foo.txt foo.tar

* Incorrect -

tar cf foo.txt

* Incorrect -

tar -zx archive.tar

* Incorrect -

I don't know yet.

9.

How would you adjust the display resolution in distros using the GNOME 3 desktop to 1366x768 using the command line?

* Incorrect -

gnome-xrandr 1366x768

* Incorrect -

xrandr size:1366x768

* Your choice: correct -

xrandr-size 1366x768

* Incorrect -

xrandr --size 1366x768

* Incorrect -

I don't know yet.

10.

What command would you use to encrypt a single file?

* Incorrect -

cryptsetup

* Incorrect -

OpenPGP

* Your choice: correct -

gpg

* Incorrect -

pgp

* Incorrect -

I don't know yet.

11.

What is the most effective and precise encryption type for protecting data stored within a larger file system or even file?

* Your choice: correct -

Container encryption

* Incorrect -

AES-Twofish encryption

* Incorrect -

Partition-based encryption

* Incorrect -

End-to-end email encryption

* Incorrect -

I don't know yet.

12.

In a Bash shell, what would you type to set an environment variable of EDITOR to nano and add the setting to your environment?

* Incorrect -

EDITOR=nano

* Your choice: correct -

EDITOR=nano;export EDITOR

* Incorrect -

EDITOR=$nano;export $nano

* Incorrect -

$EDITOR=nano;write $profile

* Incorrect -

I don't know yet.

13.

What setting would you have to set on the server-side machine to allow remote graphic sessions over Secure Shell (SSH)?

* Incorrect -

Change the value of ForwardX11 to yes in the /etc/ssh/ssh\_config file.

* Incorrect -

Overwrite the existing /etc/ssh/sshd\_config file with hardware-specific settings.

* Incorrect -

Change the value of X11Forwarding to enable in the /etc/ssh/sshd\_config file.

* Your choice: correct -

Change the value of X11Forwarding to yes in the /etc/ssh/sshd\_config file.

* Incorrect -

I don't know yet.

14.

You attempt to connect via Secure Shell (SSH) to the host at 192.168.1.100 and you receive the following error:

ssh: connect to host 192.168.1.100 port 22: Connection refused.

What is your next course of action?

* Incorrect -

Attempt to connect using putty

* Incorrect -

Connect using port 23

* Incorrect -

Ping the target IP to ensure it is online

* Your choice: correct -

Verify the SSH server is installed and active on the target host

* Incorrect -

I don't know yet.

15.

What file contains the system and user created groups?

* Incorrect -

/group

* Incorrect -

/etc/groups

* Incorrect -

/usr/group

* Your choice: correct -

/etc/group

* Incorrect -

I don't know yet.

16.

What command dumps socket connection statistics?

* Incorrect -

ifconfig

* Your choice: correct -

ss

* Incorrect -

netstate

* Incorrect -

ssh

* Incorrect -

I don't know yet.

17.

Which command will print a static display of data that includes the percentage of CPU resources each running process currently uses?

* Incorrect -

df -h

* Incorrect -

free -h

* Incorrect -

top

* Your choice: correct -

ps u

* Incorrect -

I don't know yet.

18.

You just installed a new Peripheral Component Interconnect (PCI) network card and it wasn't immediately recognized by Linux. What tool do you need to enable the kernel module to run the card?

* Incorrect -

mod-install module-name

* Your choice: correct -

modprobe module-name

* Incorrect -

mod-install /lib/modules/module-name

* Incorrect -

depmod module-name

* Incorrect -

I don't know yet.

19.What command allows you to set a priority value for a process when it launches?

* Incorrect -

ps

* Your choice: incorrect -

top

* Correct -

nice

* Incorrect -

renice

* Incorrect -

I don't know yet.

20.What command would you type in Bash to view the current date/time/time zone?

* Incorrect -

get-date

* Your choice: correct -

date

* Incorrect -

echo $date

* Incorrect -

time

* Incorrect -

I don't know yet.

21.How would you set (or reset) your computer's timezone to Eastern Standard Time?

* Incorrect -

sudo set-timezone EST

* Incorrect -

sudo tz EST

* Your choice: correct -

sudo timedatectl set-timezone EST

* Incorrect -

sudo touch /usr/share/zoneinfo/est

* Incorrect -

I don't know yet.

22.What file contains a list of all services and their related ports?

* Your choice: incorrect -

/etc/ports.conf

* Incorrect -

/etc/netstat

* Incorrect -

/etc/ports

* Correct -

/etc/services

* Incorrect -

I don't know yet.

23.What command clears the local repositories of retrieved package files on a Debian/Ubuntu system?

* Incorrect -

sudo apt-clean

* Incorrect -

sudo apt-get clear

* Correct -

sudo apt-get clean

* Your choice: incorrect -

sudo apt-clear

* Incorrect -

I don't know yet.

24.Which is the recommended tool for creating a new user for Debian-based systems?

* Incorrect -

useradd

* Incorrect -

accountadd

* Your choice: correct -

adduser

* Incorrect -

newuser

* Incorrect -

I don't know yet.

25.What is Ubuntu's recommended minimum drive space required before installing Ubuntu desktop (as of version 20.04)?

* Your choice: incorrect -

50 GB

* Correct -

25 GB

* Incorrect -

5 GB

* Incorrect -

8 MB

* Incorrect -

I don't know yet.

26.What command displays user information and secondary group memberships?

* Your choice: incorrect -

who

* Incorrect -

finger

* Correct -

id

* Incorrect -

whois

* Incorrect -

I don't know yet.

27.After you update the system repositories, what would you execute to apply the updates on Ubuntu?

* Incorrect -

sudo apt install

* Your choice: correct -

sudo apt upgrade

* Incorrect -

sudo upgrade

* Incorrect -

sudo apt-get update

* Incorrect -

I don't know yet.

28.What command allows you to set a priority on an existing process?

* Incorrect -

ps

* Incorrect -

chronos

* Your choice: correct -

renice

* Incorrect -

nice

* Incorrect -

I don't know yet.

29.What command would you use to encrypt a single file?

* Incorrect -

OpenPGP

* Your choice: incorrect -

cryptsetup

* Correct -

gpg

* Incorrect -

pgp

* Incorrect -

I don't know yet.

30.On most modern Linux systems, what file contains the list of users and hashed versions of their passwords?

* Incorrect -

/home/shadow

* Correct -

/etc/shadow

* Incorrect -

/etc/password

* Your choice: incorrect -

/etc/passwd

* Incorrect -

I don't know yet.

31.What standard does the Thunderbird email client use to create encryption keys for email?

* Incorrect -

cryptsetup

* Incorrect -

GnuPG

* Your choice: correct -

OpenPGP

* Incorrect -

GPG

* Incorrect -

I don't know yet.

32.You are reviewing the output from running netstat and you notice a connection to port 21 locally. What would you deduce from this information?

* Incorrect -

The local system has established an FTP session to a remote FTP server.

* Correct -

An FTP daemon is running on the local host.

* Your choice: incorrect -

Port 21 represents an incoming SSH connection.

* Incorrect -

Port 21 is a random port used to establish outbound socket connections.

* Incorrect -

I don't know yet.

33.You download the ISO file for the Linux distribution you want to install locally. What comes next?

* Your choice: incorrect -

Copy the file to the target computer for installation

* Correct -

Write the image to a DVD or USB drive

* Incorrect -

Copy the ISO file to a USB or a DVD

* Incorrect -

Double click on the ISO file and the installation process will start on its own

* Incorrect -

I don't know yet.

34.What command would you issue to display all the groups associated with the system?

* Incorrect -

groups -list

* Incorrect -

groups

* Incorrect -

groups users

* Your choice: correct -

cat /etc/group

* Incorrect -

I don't know yet.

35.What command assigns others rwx permissions to the file users.txt?

* Incorrect -

chmod users.txt -o rwx

* Incorrect -

chown o=rwx users.txt

* Your choice: incorrect -

chmod rwx-o users.txt

* Correct -

chmod o+rwx users.txt

* Incorrect -

I don't know yet.

36。What command would a non-root user issue to update Debian/Ubuntu repositories?

* Correct -

sudo apt update

* Incorrect -

sudo updatedb

* Incorrect -

sudo update

* Your choice: incorrect -

sudo apt-update

* Incorrect -

I don't know yet.

37.What folder contains the home directories for all user accounts created on the system?

* Incorrect -

/homedir

* Incorrect -

/usr

* Your choice: incorrect -

/user

* Correct -

/home

* Incorrect -

I don't know yet.

38.When a Linux system starts, what is one of the first items that launches?

* Incorrect -

The graphical user interface

* Your choice: incorrect -

The bash console

* Correct -

Init processes

* Incorrect -

The network startup script

* Incorrect -

I don't know yet.

39.Which of the following statements best explains what happens when you "run a live image of Linux on your computer"?

* Correct -

Running a live image off a USB or optical drive without modifying your local system

* Incorrect -

Running Linux on a virtual hard disk within a hypervisor

* Your choice: incorrect -

Running a locally installed Linux image on your system

* Incorrect -

Creating a multi-boot configuration on your system with multiple OS's installed

* Incorrect -

I don't know yet.

40. Using systemd tools, how would you set the default runlevel so the machine automatically boots to a graphical user interface (GUI) desktop?

* Incorrect -

systemctl desktop-ui

* Incorrect -

telinit systemd-graphical

* Incorrect -

systemctl get-graphical

* Your choice: correct -

systemctl set-default graphical.target

* Incorrect -

I don't know yet.

41.Which command will print the free space currently available on each of your storage volumes?

* Your choice: correct -

df

* Incorrect -

free

* Incorrect -

space -a

* Incorrect -

ps

* Incorrect -

I don't know yet.

42.What are the three types of object owners on a Linux system?

* Incorrect -

Everyone, group, and administrators

* Correct -

User (owner), group, and other

* Your choice: incorrect -

User, group, and root

* Incorrect -

Root, group, and other

* Incorrect -

I don't know yet.

43.Which command will give you an encrypted connection through which you can transfer a file to a remote host?

* Incorrect -

ssh filename.txt account@192.168.1.20:/home/account/

* Incorrect -

ping account@192.168.1.20:/home/account/ filename.txt

* Your choice: correct -

scp filename.txt account@192.168.1.20:/home/account/

* Incorrect -

telnet filename.txt account@192.168.1.20:/home/account/

* Incorrect -

I don't know yet.