Module: 1 -Linux Server - Linux Basics And Networking

1. What is the minimum number of partitions you need to install Linux?

Ans :- The minimum required is one root (/) partition. However, it is recommended to have at least two partitions: root (/) and swap.

2. Explain About Chmod Command

Ans:- chmod changes the file or directory permissions in Linux.

3. How to check Linux memory utilization

Ans:

Cmd:-free-h

Cmd:- cat /proc/meminfo

4. Use grep to search for specific patterns in files.

Ans:- grep "pattern" filename.txt

5. Get Connecting on a Linux server by ssh

Ans:- ssh user@hostname_or_ip

6. Create 5 files in the /tmp directory, and then use tar and gzip to bundle and compress the files.

Ans:-

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cd /tmp

touch file1 file2 file3 file4 file5

tar -czvf myfiles.tar.gz file1 file2 file3 file4 file5

7. Describe the root account

• Ans: The root account is the superuser in Linux with unrestricted access to all commands, files, and the system.

8. What is shell?

Ans: A shell is a command-line interface that allows users to interact with the OS

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• Ans: Linux is a free, open-source, UNIX-like operating system kernel. Most Linux distributions include the kernel plus software and package management.

10. What is Bash?

 Ans: Bash (Bourne Again SHell) is a popular command-line shell and scripting language used in Linux.

11. You have a new empty hard drive that you will use for Linux. What is the first step you use?

• **Ans:** Partition the drive using a tool like:

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fdisk /dev/sdX

(replace sdX with the actual device name)

12. Write the Linux command to show the current working directory.

Ans:

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pwd

13. Write the Linux command to get help with various options.

Ans:

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command --help

or

man command

14. Write the Linux command to display what all users are currently doing.						
Ans:						
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15. Write the Linux command to get information about the operating system.						
Ans:						
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uname -a						
# or						
cat /etc/os-release						
16. Write the Linux command to create a hard link of a file.						
Ans:						
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In original.txt hardlink.txt						
17. Write the Linux command to create a soft link of a file as well as Directory.						
Ans:						
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In -s original.txt softlink.txt						
In -s /path/to/dir link_to_dir						
18. Write the Linux command to search for specific pattern in a file.aa						
Ans:						
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grep "pattern" filename.txt						

19. Write the Linux command to show the use of basic regular expressions using grep command.

Ans:

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grep "^start" filename.txt # lines that start with "start"
grep "end$" filename.txt # lines that end with "end"
grep "[0-9]" filename.txt
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