1. Compress a file by compress, gzip, zip commands and decompress it again. State the differences between compress and gzip commands.



The main differences between the compress and gzip commands in Linux are:

1. Algorithm: compress uses LZ77, while gzip uses DEFLATE.
2. Compression ratio: gzip provides a higher compression ratio.
3. File extension: compress adds .Z, while gzip adds .gz.
4. Usage: gzip is more commonly used and widely available than compress.

2. What is the command used to view the content of a compressed file.

Zcat filename.gz

3. Backup /etc directory using tar utility.

tar -czvf etc\_backup.tar.gz /etc

4. Starting from your home directory, find all files that were modified in the last two day.

find ~ -type f -mtime -2

5. Starting from /etc, find files owned by root user.

sudo find /etc -type f -user root

6. Find all directories in your home directory.

find ~ -type d

8. Identify the file types of the following: /etc/passwd, /dev/pts/0, /etc, /dev/sda

ls -l /etc/passwd /dev/pts/0 /etc /dev/sda

10. Copy /etc/passwd to your home directory, use the commands diff and cmp, and Edit in the

file you copied, and then use these commands again, and check the output.

