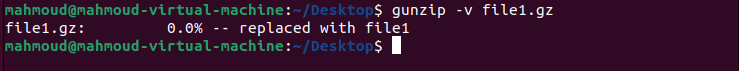
A screenshot of a computer screen

Description automatically generatedA screenshot of a computer screen

Description automatically generated1- Compress a file by compress, gzip, zip commands and decompress it again. State the differences between compress and gzip commands.

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* Gzip is more modern than compress. gzip achieves higher compression ratios and faster compression speed. Gzip can compress multiple files while compress can only compress single files. Compress command replaces the original file with a new file that has a .Z extension while gzip creates a new file for every file we compress.

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

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3- Backup /etc directory using tar utility.

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

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Description automatically generated5- Starting from /etc, find files owned by root user.

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Description automatically generated6- Find all directories in your home directory.

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Description automatically generated7- Write a command to search for all files on the system that, its name is “.profile”.

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

* A screenshot of a computer program

  Description automatically generatedTo determine the file type we use the command `file`

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Description automatically generated9- List the inode numbers of /, /etc, /etc/hosts.

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.

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A computer screen shot of a program

Description automatically generated11- Create a symbolic link of /etc/passwd in /boot

12- Create a hard link of /etc/passwd in /boot. Could you? Why?

* A computer screen shot of a program

  Description automatically generatedAt first it gave me ‘operation not permitted’, but when I used sudo command, it worked well.