LVM (LOGICAL VOLUME MANAGER) COMMAND

LVM (Logical Volume Manager) is a storage management technology in Ubuntu and other Linux-based operating systems that allows users to manage their disk storage more flexibly than traditional partitioning schemes.

Creating an extended LVM involves creating a new LVM partition on an existing physical volume, which can then be used to store additional logical volumes. This allows you to expand your storage capacity without having to resize existing partitions or reformatting the disk.

To create an extended LVM, you would typically use a tool like the Logical Volume Manager GUI or the command-line tool lv create. You would need to specify the size of the new LVM partition, the physical volume on which it should be created, and any other relevant parameters.

Reusing LVM involves resizing or moving existing logical volumes to free up space on a physical volume for other uses. This is useful when you need to make more space available for new partitions or other storage needs.

To reuse LVM, you would typically use the lvresize or lvmove command-line tools. These tools allow you to resize or move logical volumes, respectively, while maintaining data integrity and without the need for reformatting or repartitioning. You would need to specify the size of the new logical volume or the target physical volume for the move operation.

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```

```
himanshu@himanshu:~$ sudo lvmdiskscan
  /dev/nvme0n1 [
                       <476.94 GiB]
  /dev/loop0
                       <61.96 MiB]
  /dev/nvme0n1p1 [
                       512.00 MiB]
  /dev/loop1 [ <346.30 MiB]
/dev/nvme0n1p2 [ <476.44 GiB]
                  ]
]
  /dev/loop3
                        <63.32 MiB]
  /dev/loop4
                       <346.33 MiB]
  /dev/loop5
                       <91.69 MiB]
  /dev/loop6
                         46.96 MiB]
  /dev/loop7
                       <54.24 MiB]
  /dev/loop8
                       <45.93 MiBl
  0 disks
  11 partitions
  0 LVM physical volume whole disks
  0 LVM physical volumes
himanshu@himanshu:~$
```

.SHELL SCRIPTING

- 1. Open a terminal: You can open a terminal by pressing Ctrl + Alt + T on your keyboard or by searching for "Terminal" in the applications menu.
- 2. Create a new file: Use the following command to create a new file named script.sh:
- touch script.sh
- 3. Open the file: You can open the file using a text editor like Nano, Vim, or Gedit. For example, to open the file in Nano, use the following command:
- nano script.sh
- 4. Add your commands: Write your shell commands in the file, one command per line. For example:
- #!/bin/bashecho "Hello, World!"

The first line, #!/bin/bash, is called a shebang and tells the system which interpreter to use to run the script. In this case, we're using the Bash shell.

5. Save the file: Press Ctrl + X, then Y, then Enter to save the file.

- 6. Make the file executable: To make the script executable, use the following command:
- chmod +x script.sh
- 7. Run the script: To run the script, use the following command:
- ./script.sh

This will execute the commands in the script and display the output on the terminal.

```
mansnugnimansnu:~$ cd pesktop
himanshu@himanshu:~/Desktop$ ls
nimanshu@himanshu:~/Desktop$ touch linux
himanshu@himanshu:~/Desktop$ ls
linux
himanshu@himanshu:~/Desktop$ nano linux
himanshu@himanshu:~/Desktop$ ls
linux
himanshu@himanshu:~/Desktop$ chmod +x linux
himanshu@himanshu:~/Desktop$ ./linux
Hello, World!
nimanshu@himanshu:~/Desktop$ nano linux
himanshu@himanshu:~/Desktop$ nano linux
himanshu@himanshu:~/Desktop$ chmod +x linux
himanshu@himanshu:~/Desktop$ ./linux
Hello, World!
./linux: line 3: hii: command not found
himanshu@himanshu:~/Desktop$ chmod 444 linux
himanshu@himanshu:~/Desktop$ chmod 777 linux
himanshu@himanshu:~/Desktop$ chmod 421 linux
himanshu@himanshu:~/Desktop$
```

