

CSE484(Cloud Computing)

Assignment 1: Lets familiar with Linux

Name: Habibun Nabi Hemel

Id: 22241042

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Submitted to: Jannatun Noor

Part1: Some different kinds of cloud computing applications

- 1. **Cloud controlled smart mirror** for undetify emation is a unic application of cloud computing. In this process the mirror camera capture picture or video stream which are analysis by powerful cloud servers, and sent the result in the mirror display.
- Cloud-Powered Plant Watering, using cloud-connected iot sensors to find soil moisture and automatically water to the plants based on real time data to maintain ideal water level.

3. **Store Date**: Most of the time we CSE students use the pirated courses to learn new technologies where the course content is saved in mega,dropbox (cloud storage) which is important

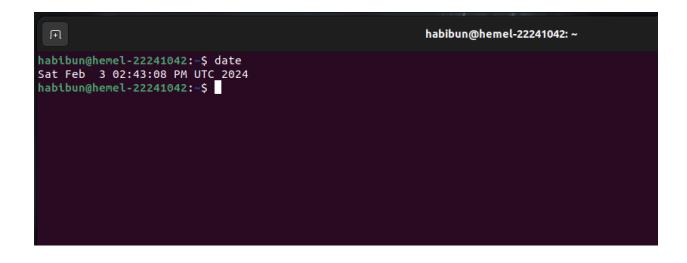
4. Online Cloud-Powered Compliment Giver:

Creating a cloud-based AI system that generates personalized positive affamation for users based on their facebook activity, ensuring daily positive feeling.

- 5. **Cybersecurity Cloud Computing:**Cloud based security company strive to outmaneuve heckers and safe sensitive data from cyber threats, imporveoverall security measures
- 6. **Digital Marketing Analytics Platforms:** Adobe Analytics and similar cloudbased platforms offer insights into user behavior, campaign performance and customer engagement for digital marketing. which can make the business grow faster and make more profit.

Part2: Some different kinds of cloud computing applications

1. **date:** This command will show the time and date in details



2. **cd:** this command refers to Change Directory. I have changed the directory to home to Assignment1 by using cd multiple times.

habibun@hemel-22241042: ~/Documents/CSE484/Assignment1

habibun@hemel-22241042:~\$ cd documents

bash: cd: documents: No such file or directory
habibun@hemel-22241042:~\$ cd Documents
habibun@hemel-22241042:~/Documents\$ cd CSE484
habibun@hemel-22241042:~/Documents/CSE484\$ assignment1

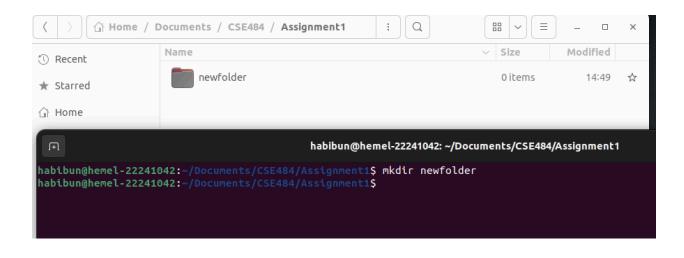
assignment1: command not found

habibun@hemel-22241042:~/Documents/CSE484\$ cd Assignment1 habibun@hemel-22241042:~/Documents/CSE484/Assignment1\$

3. **history**: this will tell me the commands that are executed by the previous commands.

```
habibun@hemel-22241042: ~/Documents/CSE484/Assignmen
habibun@hemel-22241042:~/Documents/CSE484/Assignment1$ history
    1 sudo apt update && sudo apt upgrade -y
2 sudo apt install ubuntu-desktop
3 reboot
    4 sudo apt install spice-vdagent spice-webdavd -y
    5 reboot
    6 sudo mkdir /media/Hostshared
       clear
    8 sudo mkdir /media/HostShared
    9 sudo mount -t 9p -o trans=virtio share /media/HostShared -oversion=9p2000.L
   10 sudo nano /etc/fstab
   sudo chown -R $USER /media/HostShared
sudo chown -R $USER /media/HostShared/
   13 reboot
   14 date
   15 ds -s
16 du -s
   17 clear
   18 date
   19 clear
   20 su - username
21 su -hemel
   22 clear
   23 hostnamectl set hostname hemel-22241042
   24 clear
25 hostnamectl set-hostname hemel-22241042
   26 hostname
   27 sudo su
   28 usermode -l habibun -d /home/hemel -m hemel
29 usermod -l habibun -d /home/hemel -m hemel
   30 sudo su
   31 whoami
   32 pwd
   33 sudo su
   34 sudo gedit /etc/passwd
   35 sudo adduser temporaryuser
   36 sudoadduser temporaryuser sudo
   37 sudo adduser temporaryuser sudo
   38 sudo userdel temporaryuser
   39 datw
   40 clear
   41 date
   42 clear
   43
       cd documents
   44
       cd Documents
```

4. **mkdir:** this command will create a new folder/directory . syntax: mkdir <newfolder_name>



5. whoami: this command will give me the user name which is habibun in here

```
habibun@hemel-22241042: ~/Documents/CSE484/Assignmenthabibun@hemel-22241042: ~/Documents/CSE484/Assignmenthabibun
habibun@hemel-22241042: ~/Documents/CSE484/Assignment1$
habibun@hemel-22241042: ~/Documents/CSE484/Assignment1$
```

6. **pwd**: (print working directory) this command displays the full path name of the current working folder.

```
habibun@hemel-22241042: ~/Documents/CSE484/Assignmenthabibun@hemel-22241042: ~/Documenthabibun@hemel-22241042: ~/Documenthabi
```

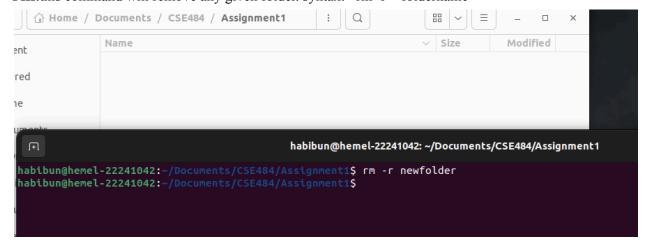
7. passwd: the command will will help me to change the password. Here i have to put current password then set the new one

```
habibun@hemel-22241042: ~/Documents/CSE484/Assignment1$ passwd
Changing password for habibun.
Current password:
New password:
Retype new password:
passwd: password updated successfully
habibun@hemel-22241042: ~/Documents/CSE484/Assignment1$
```

8. **clear**: this command will make the terminal clean and lookslike the starting one

```
clear
  50
  51
     history
  52
      clear
     whoami
  53
  54
     clear
  55
     pwd
  56
      clear
  57
     passwd
  58
     clear
  59
     history
 60
     clear
 61
     history
abibun@hemel-22241042:~/Documents/CSE484/Assignment1$ clear
```

9. **rm**:this command will remove any given folder. syntax: rm -r <foldername>



10. **Is**: list the content of a directory.

```
habibun@hemel-22241042:-$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
habibun@hemel-22241042:-$ ls -a
. .bash_history .bashrc .config Documents .gnupg Music .profile snap .sudo_as_admin_successful Videos
.. .bash_logout .cache Desktop Downloads .local Pictures Public .ssh Templates
habibun@hemel-22241042:-$
```

11. **du -s:** the du command displays the sizes of all directories and files in bytes. But i use the "-s" option to display only the total size of a directory.

```
habibun@hemel-22241042:~$ du -s
115224 .
habibun@hemel-22241042:~$
```

12. **free**: Displays the amount of free space available on the system. The free command displays memory (RAM) usage by default in kilobytes.

```
abibun@hemel-22241042:~$ free
              total
                                       free
                                                  shared buff/cache
                                                                       available
                           used
Mem:
            4005116
                         821188
                                     823860
                                                  61188
                                                             2360068
                                                                         2931808
            4004860
                                     4004860
Swap:
abibun@hemel-22241042:~$
```

13. **cp**:copy from one file to another. Syntax: cp <form_path> <to_path>

```
habibun@hemel-22241042:~$ cp /home/abstact/Pictures/Wallpapers/wp8939842.jpg home
habibun@hemel-22241042:~$
```

14. **mv**:move form one folder to another. Syntax: mv <form path> <to path>

```
nabibun@hemel-22241042:-$ mv /home/abstact/home Documents/CSE484
nabibun@hemel-22241042:-$
```

15. **cat**: (concatenate) command is a tool that lets view file contents on terminal.I can direct open a file and see what's inside that.snytax: cat <path>

```
hablbun@hemel-22241042:-$ cat /home/abstact/.profile

# ~/.profile: executed by the command interpreter for login shells.

# This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login

# exists.

# see /usr/share/doc/bash/examples/startup-files for examples.

# the files are located in the bash-doc package.

# the default umask is set in /etc/profile; for setting the umask

# for ssh logins, install and configure the libpam-umask package.

# umask 022

# if running bash

if [ -n "SBASH_VERSION" ]; then

# include .bashrc if it exists

if [ -f "SHOME/.bashrc" ]; then

. "SHOME/.bashrc" ]; then

PATH="SHOME/bin: SPATH"

fi

# set PATH so it includes user's private bin if it exists

if [ -d "SHOME/bin: SPATH" |

# set PATH so it includes user's private bin if it exists

if [ -d "SHOME/.local/bin: SPATH" |

# set PATH so it includes user's private bin if it exists

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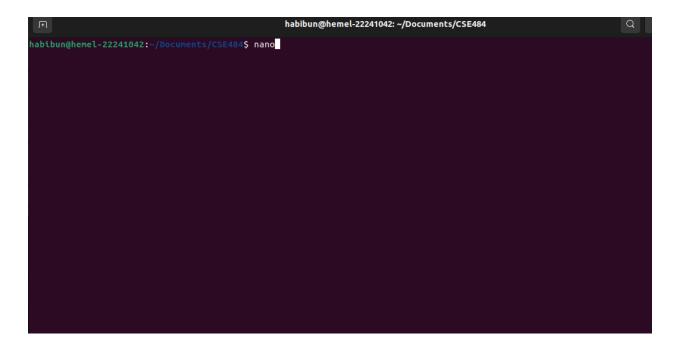
# habibun@hemel-22241042:-$
```

16. **touch**:touch command allows you to create empty files or update the timestamps of existing files.

```
habibunghemel-22241042:-$ cd Documents/CSE484
habibunghemel-22241042:-/Documents/CSE484$ touch example.text
habibunghemel-22241042:-/Documents/CSE484$

I
```

17. **nano**:It is a command-line tool that allows you to create, edit, and save text files

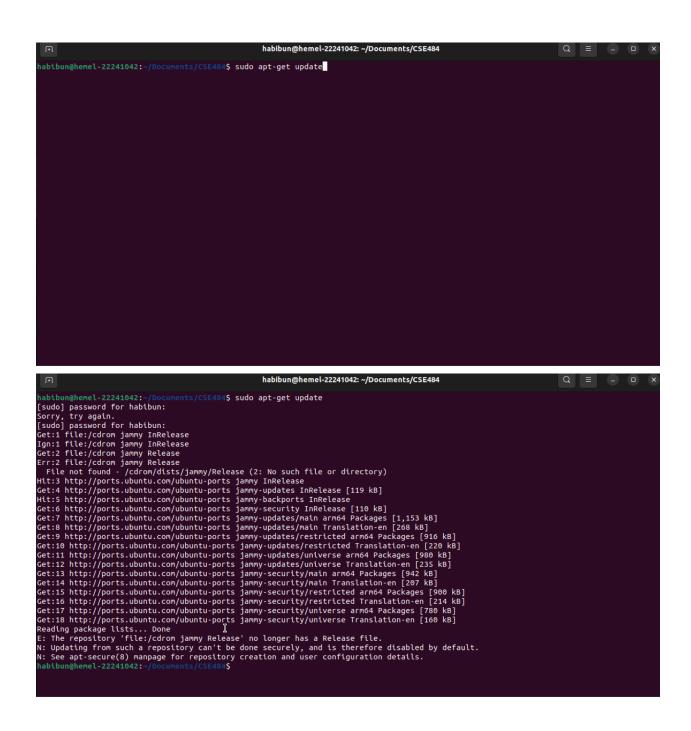


18.Man intro: this command shows a introduction to Linux commands. Help us to learn commands.





19.sudo apt-get update: This command will fetch the package information from all configured sources and update the local package index. It can take some time to update depending on the internet speed



20. **sudo apt-get clean**: This command clears out the local repository of retrieved package files, freeing up disk space. For that reason i can have some extra space in my system

```
Shabibun@hemel-22241042:~$ sudo apt-get clean
habibun@hemel-22241042:~$

t
```

THE END