Linux Assignment

1.) Configure smtp in localhost

1. rpm -qa | grep sendmail

2. rpm -qa | grep postfix

3. systemctl stop postfix

4. yum install -y sendmail\*

5. rpm -qa | grep sendmail

6. vim /etc/mail/sendmail.mc

dnl DAEMON\_OPTIONS

7. vim /etc/mail/local-host-names

chirags.com

csolanki.com

8. (a) useradd chirags (b) passwd chirags

9. systemctl start sendmail

10. systemctl enable sendmail

11. mail -v -s "test mail" chirags@chirags.com

Hello, This is the test email.

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EOT 12. su - csolanki

13. mail & 1

2.) Create a user in your localhost, which should not be able to execute the sudo command.

Ans:) useradd chirags

Passwd chirags

Now go to cd /etc/sudoers

From here edit the file to which user you must not give sudo permission

Chirag ALL = ALL , !/bin/su

Also keep the backup for this file cd /etc/sudoers.orig for future reference.

3.) Configure your system in such a way that when a user type and executes a **describe** commandfrom anywhere of the system it must list all the files and folders of the user's current directory.

               Ex:- $ **describe**

First create a describe file

Vi describe

In this file write the script to

#!/bin/bash

#print list of files and directory in one column

Ls -ltr --color | awk ‘{ Print $1,$3,$9}’

Save and quit

Now give the right permission to the file

Chmod 755 describe

Specify the path to the script

Mv describe /usr/local/sbin

And you can execute the command from where every you want in the directory.

4.) Users can put a compressed file at any path of the linux file system. The name of the file will be **research** and the extension will be of compression type, example for

gzip type extension will be .gz You have to find the file and check the compression type and uncompress it.

**Ans:)** gzip research.gz

Find grep research.gz

gzip -d research.gz

5.) Configure your system in such a way that any user of your system creates a file then there should not be permission to do any activity in that file.

Ans:) umask is the command to deny the permission to any user to do any activity in the file

Example: umask 0002 only you and members of your group have read/write access to files, and read/write/search access to directories you own whereas all others have only read access to your file.

6.) Create a service with the name **showtime** , after starting the service, every minute it should print the current time in a file in the user home directory.

Ans.) create a file with name in home directory $: vi showtime.sh

Inside the file write the script

#!/bin/bash

While true

do

date >> /home/csolanki/log

sleep 60

done

save and exit (:wq!)

Give the write permission to the file to execute

Chmod a+x showtime.sh

Now Create a service file

Go to sudo cd /etc/system/system

Create a file in here with name showtime.service

Vi showtime.service

[Service]

ExecStart = /home/csolanki/log

Save and exit(:wq!)

Give the permission to execute this file

Chmod +x /etc/system/system/showtime.service

Now you can run this by using following commands

Sudo service showtime start

Sudo service showtime status

Sudo service showtime stop

A file will be created in home directory with time of every one minute stored in it

You can check using “cat log”