Unit 1.1: Rsync Assignment

Pair Members:

Maaz Javaid Siddique (2303.KHI.DEG.004)

Osama Abdul Razzak (2303.KHI.DEG.029)

Assignment:

On a linux server setup a cron job for copying example data with rsync periodically.

Ensure the copying is handled in the background and independently of the user session.

In this assignment first we need to check crontab is installed by **crontab --version** or if not the install by this **sudo apt-get install crontab**.

As in the question we have to copy a data by rsync so I create two folders one exactlocation is the folder where by file is located file.sh and another I create Backuplocation folder. I create a file file.sh by using **nano file.sh** and write some text.

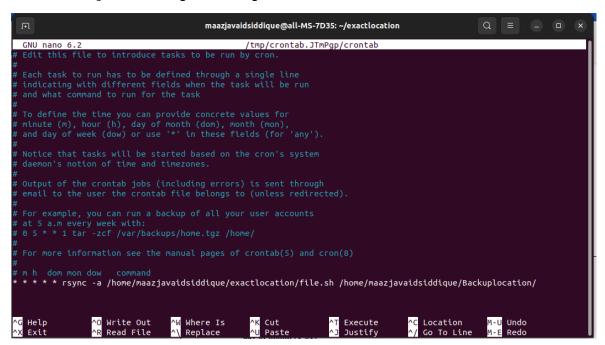


In the terminal I want to create a crontab by using the **crontab** –**e** command if you run this command the first time you have to select an option for which editor you want to use, I select nano.

```
maarjavaidsiddique@all-MS-7D3S:-/exactlocation
maarjavaidsiddique@all-MS-7D3S:-/exactlocation
maarjavaidsiddique@all-MS-7D3S:-/exactlocation$ Is
file.sh
maarjavaidsiddique@all-MS-7D3S:-/exactlocation$ nano file.sh
maarjavaidsiddique@all-MS-7D3S:-/exactlocation$ crontab -e
crontab: installing new crontab
maarjavaidsiddique@all-MS-7D3S:-/exactlocation$ crontab -l
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (n), hour (h), day of month (don), month (non),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daenon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# enail to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at S a.m every week with:
# S * * 1 tar -zcf /var/backups/home.tgz /home/
# For reample, you can run a backup of all your user accounts
# a S * * very neek with:
# For more information see the manual pages of crontab(S) and cron(8)
# For more information see the manual pages of crontab(S) and cron(8)
# r h dom mon dow command
* * * * * rsync -a /home/maazjavaidsiddique/exactlocation/file.sh /home/maazjavaidsiddique/Backuplocation/
# naazjavaidsiddique@all-MS-7D3S:-/exactlocation$
```

After that, I entered the crontab. I write a command

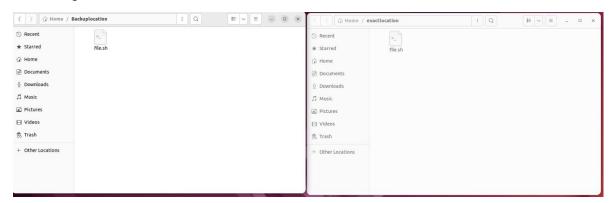
* * * * * rsync /home/maazjavaidsiddique/exactlocation/file.sh /home/maazjavaidsiddique/Backuplocation



At the starting of the command I write five asterisk

- * min
- * hour
- * day of month (1-31)
- * month (1-12)
- * day of week(1-7)

I use five asterisk which means every minute we take a backup from exactlocation folder to Backuplocation folder



In this picture, we can see file.sh copied from one folder to another folder.