

Assignment (1.1 RSync)

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.

Solution

To setup a cron job we have to edit the system wide crontab file by using command **sudo crontab -e**.

Rsync - is a utility which is use for the synchronization of files and folder. And we have to install rsync by **sudo apt-get install rsync** command.

Cron job is also work in background.

```
sabih@sheikh-muhammad-sabih:~/Documents/emeritus/apr_3$ sudo crontab -e
```

Above command will open **crontab file** and then we will add the command in it.

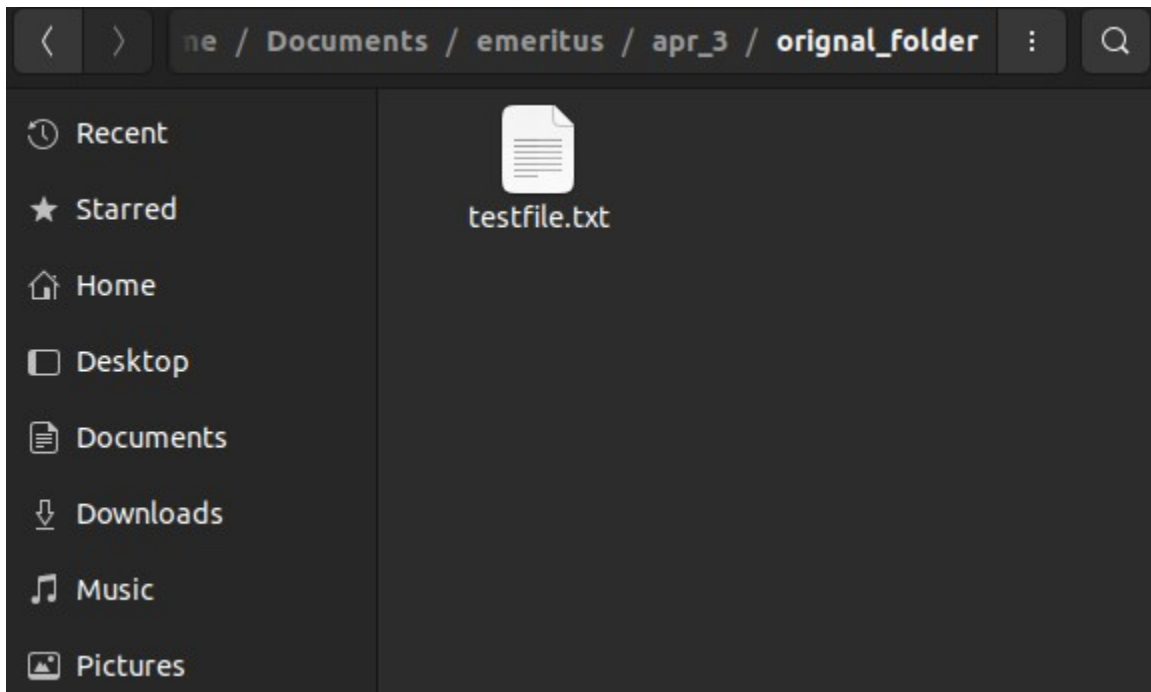
```
GNU nano 6.2 /tmp/crontab.bn9uNw/crontab
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow  command
* * * * * rsync -a /home/sabih/Documents/emeritus/apr_3/original_folder/ /home/sabih/Documents/emeritus/apr_3/copied_folder
```

```
***** rsync -a  
/home/sabih/Documents/emeritus/apr_3/original_folder/  
/home/sabih/Documents/emeritus/apr_3/copied_folder
```

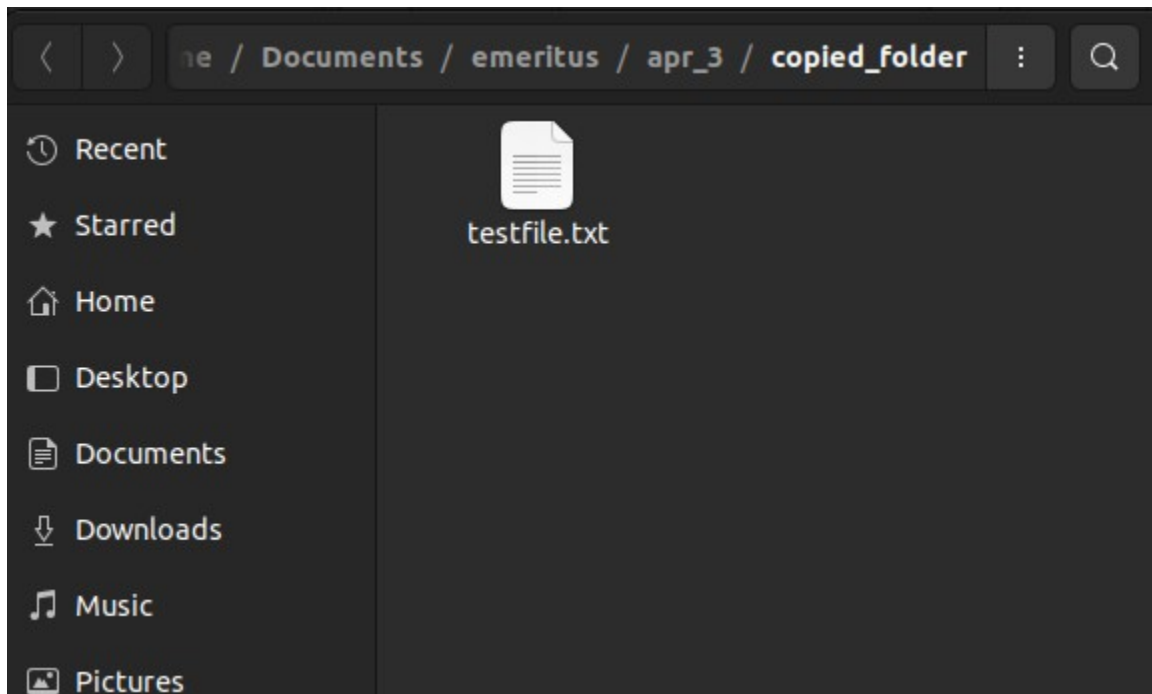
In the above command:

- *********: shows the repetition of command execution which is **every minute, every hour, every day, every month, every day**.
- **Rsync -a**: is a normal option to synchronize the file.
- Than we have source path.
- Than we have destination path.

original_folder:



copied_folder:



Conclusion:

The command
“* * * * * rsync -a /home/sabih/Documents/emertus/apr_3/orignal_folder/
/home/sabih/Documents/emertus/apr_3/copied_folder” in sudo will run
independently of the user session and in the background and copy the
changes of file in the destination folder.