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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.

Breakdown:

1. Installing cron and configuring it.

```
(base) huziafaali@all-MS-7D35:-$ sudo apt install cron
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cron is already the newest version (3.0pl1-137ubuntu3).
cron set to manually installed.
The following packages were automatically installed and are no longer required:
   libflashrom1 libftdi1-2 libllvm13
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 100 not upgraded.
(base) huziafaali@all-MS-7D35:-$ crontab -e
no crontab for huziafaali - using an empty one

Select an editor. To change later, run 'select-editor'.

1. /bin/nano <---- easiest
2. /usr/bin/vim.tiny
3. /bin/ed

Choose 1-3 [1]:
No modification made
```

2. Checking rsync and its version.

```
(base) huziafaali@all-MS-7D35:~$ rsync --version rsync version 3.2.7 protocol version 31
Copyright (C) 1996-2022 by Andrew Tridgell, Wayne Davison, and others.
Web site: https://rsync.samba.org/
```

3. Creating Folders for test files to transfer.

```
(base) huziafaali@all-MS-7D35:~$ mkdir original
(base) huziafaali@all-MS-7D35:~$ mkdir duplicate
(base) huziafaali@all-MS-7D35:~$ touch original/{1..3}
```

4. Setting up a job at cron to automate the file transfer.

OUTPUT:

The Purpose of the following commands were to set up a file transfer scheduler using cron and

rsync, so that the files can be transferred or backed up in background without bothering the

user and that too periodically.

Due to testing purposes, we have kept the periods on a per minute basis to ensure the system works properly.

Below are the results attached of the files transferred from orignal to duplicate.

