**Job Automation-job scheduling**

**(NOTE:-Request to gothrough the video then refer this document for clear understanding)**

Command to install cron –

# yum install **cronie**

systemctl status crond

**Crontab format**

 To assign a job in the Crontab file the format used is the following



1-\* indicates= mins-\*-any value between 0-60 wild card entry –it is going to consider all the values (\* \* \* \* \* mkdir /bhaskar)

2-\* indicates =hours-0-24 - any value between 0-24

3-\* indicates=date of the month- 1-31- any value between 1-31

4. \* indicates=month 1-12- any value between 1-12

5. \* indicates=days (M,T,W,T,F,S,S)- any value between 1-7

1 ,2,3,4,5,6,(7 or 0)either we can use for sunday

6.command required command (this is example mkdir /ben for command)

Below thing indicates the example for how to create the cron job (assigning the values)

\*(min) \*(hours) \*(date) \*(month) \*(week day) cmd

25 21 \* \* \* mkdir /anto

25 09,21 27 \* \* mkdir/anto

25 21 27 8 \* yum install git - 27-8-2022-

25 21 \* \* 6 mkdir/anto

\*/20 \* \* \* \* sh ./backup.sh

Backup.sh—this is shell script

Chmod +x Backup.sh-🡪remember to provide the execution permission for the shell script file

Crontabl –l

Crontab –e

Systemctl restart crond

Service crond start or #service crond restart or !ser---.to restart the restarted service

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| --- | --- |
| **Crontab Commands Command** | **Explanation** |
| **crontab –e** | Edit your crontab file, or create one if it doesn’t already exist. |
| **crontab –l** | Display your crontab file. |
| **crontab –r** | Remove your crontab file. |
| **crontab -u** | If combined with **–e,** edit a particular user’s Crontab file and if combined with **–l,** display a particular user’s crontab file. If combined with **–r,** deletes a particular user’s Crontab file |

**#crontab –e –u <user name>**

**#crontab –l –u <user name>**

**Important Files related to cron and at**

 **/etc/crontab** is the file which stores all scheduled jobs

 **/etc/cron.deny** is the file used to restrict the users from using cron jobs.

 **/etc/cron.allow** is used to allow only users whose names are mentioned in this file to use cron jobs. (this file does not exist by default)

**Assignment:-Schedule a cron job to create a directory “ktdir” under “/root” on “Sunday 22 October at 1:30 AM”**