**Experiment 3.2**

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**Branch:   CC-DevOps                                                        Section/Group: 1/B**

**Semester:   I                                                               Date of Performance: 04/01/2023**

**Subject Name:** **Linux Administration Lab Subject Code: 22CAP-648**

* **Aim/Overview of the practical:**

**Q.1 Schedule echo command to 1type ur UID on 30th June 08:30 pm. Perform tar command to backup file1 and file2 on 5th july at 11am and 4pm. perform echo ur name on very weekday during working hours.**

**Q.2 Schedule two jobs of echo with at, display the at queue and remove a job. schedule ls command to run every four hour. display the crontab file of your normal user Then , remove your crontab file.**

* **Answer 1:**
  1. To schedule the echo command to display your UID on June 30th at 8:30 PM, you can use the at command like this:
     1. **Echo “22MCC20177” | at 8:30 PM 30 June**
  2. To schedule the tar command to backup file1 and file2 on July 5th at 11 AM and 4 PM, you can use the at command like this:
     1. **at 11 AM 5 July -f 'tar -cf backup.tar file1 file2'**
     2. **at 4 PM 5 July -f 'tar -cf backup.tar file1 file2'**
  3. To schedule the echo command to display your name every weekday during working hours, you can use the crontab command to create a cron job. The crontab command allows you to schedule commands to be executed at specific times using a crontab file.

To create a cron job to execute the echo command every weekday during working hours, you can use the following steps:

1. Open a terminal and enter the following command to edit your crontab file:
   * **crontab -e**
2. This will open the crontab file in a text editor. Add the following line to the file to schedule the echo command to be executed every weekday (Monday through Friday) at 9 AM:
   * **0 9 \* \* 1-5 echo "Gaurav Kumar"**
3. Save the file and exit the text editor. This will create a cron job that will execute the echo command every weekday at 9 AM.

* **Answer 2:**
  1. To schedule two jobs of echo using at, you can use the at command like this:
     1. **at now + 1 minute -f 'echo "Job 1"'**
     2. **at now + 2 minutes -f 'echo "Job 2"'**

This will schedule the echo command to be executed in 1 minute and 2 minutes from the current time.

* 1. To display the at queue use **atq command**
  2. To Remove a job queue use **atrm [jobNumber]**
  3. To schedule the ls command to run every four hours, you can use the crontab command to create a cron job. The crontab command allows you to schedule commands to be executed at specific times using a crontab file.

To create a cron job to execute the ls command every four hours, you can use the following steps:

* + 1. Open a terminal and enter the following command to edit your crontab file:
       - **crontab -e**
    2. This will open the crontab file in a text editor. Add the following line to the file to schedule the ls command to be executed every four hours:
       - **0 \*/4 \* \* \* ls**
    3. Save the file and exit the text editor. This will create a cron job that will execute the ls command every four hours.
  1. To view the crontab file for your normal user, you can use the **crontab -l** **command**
  2. To remove your crontab file, you can use the **crontab -r command**

1. prints file system type on partitions as well
2. now Creating primary partition and 2 extended partitions
3. **Learning outcomes (What I have learnt):** 
   * 1. **Learn about at**
     2. **Learn about atq.**
     3. **Learn about crontab.**

**Evaluation Grid:**

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| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. | Demonstration and Performance  (Quiz) |  | 22 |
| 2. | Worksheet |  | 8 |