Cron exercise.

In Linux/UNIX, tasks can be configured to run automatically on a specified date and time. This can be accomplished with cron, at and batch. At will run a command at a specified time, once. Batch will run a command at a specified time, but only if the load of the machine drops below 0.8, or the value specified in the invocation of atd. Cron is started at boottime. To check whether cron is running: List the processes and filter out cron. root ~# ps -ef|grep cron|grep -v grep
root 375 1 0 10:31 ? 00:00:00 /usr/sbin/cron -f Use systemctl to check the status of cron root ~# systemctl status cron To stop cron: [root@vm12 ~]# systemctl stop crond To start cron: [root@vm12 ~]# systemctl start crond Scheduled tasks can be started on the basis of 5 fields that specify the when. "minutes" "hours-days of month" " months of year" and " days of week" . Notation: Any value: * List seperator: Range of values: -Step values: / Some examples: 0 10 * * * On the hour at 10 o'clock in the morning, every day of the month every month of the year, every day of the week. Every 5 minutes. 0,30 * * * * Every half hour. You can allow or deny users to use cron. Every user that is allowed to run cron, will have a personal cron table that is stored in /var/spool/cron/. To list your cron entries use the following command: root ~# crontab -1 To edit your cronfile, use crontab -e. root ~# crontab -e

```
To deny users, add the username to /etc/cron.deny You can also allow users by adding them to /etc/cron.allow
```

```
[root@vm12 ~]# echo "linuser" >> /etc/cron.deny
[root@vm12 ~]# su linuser
```

```
[linuser@vm12 root]$ crontab -e
You (linuser) are not allowed to use this program (crontab)
See crontab(1) for more information
```

A working example:

1. Create a script that writes the date and time to a file in /tmp

```
[root@vm12 ~]# mkdir -p /opt/scripts
```

```
[root@vm12 ~]# echo '#!/usr/bin/bash' > /opt/scripts/check_cron.sh
[root@vm12 ~]# echo 'date > /tmp/check_cron' >> /opt/scripts/check_cron.sh
[root@vm12 ~]# chmod +x /opt/scripts/check_cron.sh
```

2. Create a cron entry that runs this script every 5 minutes.

```
[root@vm12 ~]# crontab -e
*/5 * * * * /opt/scripts/check_cron.sh
:wq!
```

3. Check the contents of the file after some 5 minutes.

```
[root@vm12 \sim]# cat /tmp/check_cron Mon Jan 29 07:10:01 EST 2018
```