```
*********
                               Crontab
**********
[root@localhost ~]# rpm -qa crontabs
crontabs-1.11-6.20121102git.el7.noarch
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# systemctl     status crond
crond.service - Command Scheduler
   Loaded: loaded (/usr/lib/systemd/system/crond.service;
enabled)
  Active: active (running) since Tue 2019-06-25 13:48:23
IST; 5h 12min left
Main PID: 894 (crond)
   CGroup: /system.slice/crond.service
           └─894 /usr/sbin/crond -n
Jun 25 13:48:23 localhost.localdomain systemd[1]: Started
Command Scheduler.
Jun 25 13:48:24 localhost.localdomain crond[894]: (CRON)
INFO (RANDOM DELAY w...
Jun 25 08:18:26 localhost.localdomain crond[894]: (CRON)
INFO (running with i...
Hint: Some lines were ellipsized, use -1 to show in full.
[root@localhost ~]#
[root@localhost ~]# cat /etc/crontab
SHELL=/bin/bash
PATH=/sbin:/usr/sbin:/usr/bin
```

MAILTO=root

```
# For details see man 4 crontabs
# Example of job definition:
     ----- minute (0 - 59)
     .---- hour (0 - 23)
        .---- day of month (1 - 31)
        .----- month (1 - 12) OR jan, feb, mar, apr ...
          .--- day of week (0 - 6) (Sunday=0 or 7)
OR sun, mon, tue, wed, thu, fri, sat
             * user-name command to be executed
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
                          "hello"
[root@localhost ~]# echo
hello
[root@localhost ~]#
[root@localhost ~]# which echo
/usr/bin/echo
[root@localhost ~]#
[root@localhost ~]# /usr/bin/echo
                                    "hello"
hello
[root@localhost ~]# crontab -e
*/2
                       *
                               *
                                       /usr/bin/echo
"hello root"
save and exit from this file
```

```
[root@localhost ~]# crontab
*/2
                                         /usr/bin/echo
"hello root"
[root@localhost ~]#
[root@localhost ~]# mail
Heirloom Mail version 12.5 7/5/10. Type ? for help.
"/var/spool/mail/root": 3 messages 1 new
1 (Cron Daemon)
                        Tue Jun 25 08:52
                                           26/878
                                                    "Cron
<root@localhost>"
& 1 (Press 1 to read the mail)
Date: Tue, 25 Jun 2019 08:52:01 +0530 (IST)
Status: RO
hello root
       (press q to quit)
& a
[root@localhost ~]# crontab
                              -r
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# crontab
                              -1
no crontab for root
[root@localhost ~]#
[root@localhost ~]# useradd
                              kapil
[root@localhost ~]# crontab -e -u kapil
*/2
                                         /usr/bin/echo
"send the apache server report"
```

```
crontab and at
save and exit from this file.
[root@localhost ~]# crontab -l -u kapil
*/2
                                        /usr/bin/echo
"send the apache server report"
[root@localhost ~]# su - kapil
Last login: Tue Jun 25 09:09:49 IST 2019 on pts/1
[kapil@localhost ~]$
[kapil@localhost ~]$ mail
Heirloom Mail version 12.5 7/5/10. Type ? for help.
"/var/spool/mail/kapil": 1 message
    1 (Cron Daemon)
                    Tue Jun 25 09:00
                                              26/931
"Cron <kapil@localhost"</pre>
      (press 1 to read the mail)
&1
Date: Tue, 25 Jun 2019 09:00:02 +0530 (IST)
Status: RO
plz give the apache report
& q
       (press q to quit)
[kapil@localhost ~]$ exit
logout
[root@localhost ~]#
How to find the all running crontab report in all user
accounts?
```

```
[root@localhost ~]# crontab -l -u kapil
*/2
                                        /usr/bin/echo
"send the apache server report"
[root@localhost ~]# cd /var/spool/cron
[root@localhost cron]#
[root@localhost cron]# 1s
kapil
[root@localhost cron]#
[root@localhost cron]# cat kapil
*/2
                                        /usr/bin/echo
"hello root"
[root@localhost cron]#
[root@localhost cron]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# crontab -r -u kapil
[root@localhost ~]#
[root@localhost ~]# ls /var/spool/cron
                                              {Now there
is not file here}
[root@localhost ~]#
what is the log file of crontab ?
[root@localhost ~]# tail -f /var/log/cron
Jun 25 10:01:01 localhost
```

```
run-parts(/etc/cron.hourly)[5303]: finished Oanacron
Jun 25 10:01:01 localhost
run-parts(/etc/cron.hourly)[5291]: starting
Øyum-hourly.cron
Jun 25 10:01:01 localhost
run-parts(/etc/cron.hourly)[5309]: finished
Øyum-hourly.cron
Jun 25 10:01:01 localhost anacron[5301]: Will run job
`cron.daily' in 31 min.
Jun 25 10:01:01 localhost anacron[5301]: Will run job
`cron.monthly' in 71 min.
Jun 25 10:01:01 localhost anacron[5301]: Jobs will be
executed sequentially
Jun 25 10:02:01 localhost CROND[5358]: (kapil) CMD
(/usr/bin/echo ^I"hello root")
Jun 25 10:02:39 localhost crontab[5486]: (root) LIST
(kapil)
Jun 25 10:04:01 localhost CROND[5531]: (kapil) CMD
(/usr/bin/echo ^I"hello root")
Jun 25 10:04:31 localhost crontab[5556]: (root) DELETE
(kapil)
                    (to quit )
Press CTRL + C
[root@localhost ~]#
How to allow and deny crontab service for any users ?
[root@localhost ~]# vim /etc/cron.deny
```

kapil

```
sachin
deepak
save and exit from the file.
[root@localhost ~]# su - kapil
Last login: Tue Jun 25 08:59:03 IST 2019 on pts/0
[kapil@localhost ~]$
[kapil@localhost ~]$ crontab -e
You (kapil) are not allowed to use this program (crontab)
See crontab(1) for more information
[kapil@localhost ~]$
[kapil@localhost ~]$ crontab -1
You (kapil) are not allowed to use this program (crontab)
See crontab(1) for more information
[kapil@localhost ~]$
[kapil@localhost ~]$ exit
logout
[root@localhost ~]#
[root@localhost ~]# > /etc/cron.deny
                                                  { to
delete all entry from this file }
[root@localhost ~]#
[root@localhost ~]# cat /etc/cron.deny
[root@localhost ~]#
[root@localhost ~]# vim /etc/cron.allow
```

root kapil

save and exit from the file. [root@localhost ~]# useradd soniya [root@localhost ~]# [root@localhost ~]# su - soniya [soniya@localhost ~]\$ [soniya@localhost ~]\$ crontab -e You (soniya) are not allowed to use this program (crontab) See crontab(1) for more information [soniya@localhost ~]\$ [soniya@localhost ~]\$ exit logout [root@localhost ~]# [root@localhost ~]# [root@localhost ~]# echo "soniya" >> /etc/cron.allow [root@localhost ~]# [root@localhost ~]# cat /etc/cron.allow root kapil soniya [root@localhost ~]# [root@localhost ~]# su - soniya Last login: Tue Jun 25 09:11:57 IST 2019 on pts/1 [soniya@localhost ~]\$ [soniya@localhost ~]\$ crontab -1 no crontab for soniya

```
crontab and at
[soniya@localhost ~]$
[soniya@localhost ~]$ exit
logout
[root@localhost ~]#
How to create any shell script file to run by using
crontab.
[root@localhost ~]# vim /root/dailytask.sh
#!/bin/bash
echo "welcome"
date
cal
useradd deep
for i in 1 2 3 4 5
do
echo "numbers are = $i"
done
rsync -av /etc /tmp
echo "all task has been successfully completed"
save and exit from the file.
how to run any script manually ?
[root@localhost ~]# sh /root/dailytask.sh
welcome
```

Page 9

crontab and at Tue Jun 25 09:25:19 IST 2019 June 2019 Su Mo Tu We Th Fr Sa 1 2 3 4 5 7 6 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 numbers are = 1numbers are = 2numbers are = 3numbers are = 4numbers are = 5sending incremental file list etc/ etc/.pwd.lock etc/DIR COLORS total size is 28110510 speedup is 0.99 all task has been successfully completed [root@localhost ~]# how to run any script file by using crontab [root@localhost ~]# which sh /usr/bin/sh [root@localhost ~]# crontab

```
05
                                       /usr/bin/sh
       22
/root/dailytask.sh
save and exit from the file.
[root@localhost ~]#
[root@localhost ~]# crontab
                             -1
                                       /usr/bin/sh
95
       22
/root/dailytask.sh
[root@localhost ~]#
    ********************
                                          at
                                              command
********
[root@localhost ~]# date
Tue Jun 25 09:36:41 IST 2019
[root@localhost ~]#
[root@localhost ~]# at 09:40 AM
at> echo "hello"
at> date
at> cal
at> <EOT>
             (Press CTRL+d to save and exit)
job 1 at Tue Jun 25 09:40:00 2019
[root@localhost ~]#
[root@localhost ~]# atq
       Tue Jun 25 09:40:00 2019 a root
1
```

```
crontab and at
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at -c 1
echo "hello"
date
cal
marcinDELIMITER32adcdce
root@localhost ~]#
[root@localhost ~]# atrm 1
[root@localhost ~]#
[root@localhost ~]# atq
[root@localhost ~]#
[root@localhost ~]# at 09:10
                               AΜ
at> sh /root/dailytask.sh
at> <EOT>
job 2 at Wed Jun 26 09:10:00 2019
[root@localhost ~]#
[root@localhost ~]# atq
2
        Wed Jun 26 09:10:00 2019 a root
[root@localhost ~]#
[root@localhost ~]# atrm
                           2
[root@localhost ~]#
[root@localhost ~]# atq
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM
at> echo "hello"
```

```
at> <EOT>
job 3 at Tue Jun 25 10:00:00 2019
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM Sun
        "hello"
at> echo
at> <EOT>
job 4 at Sun Jun 30 10:00:00 2019
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM July 25
at> echo "hello"
at> <EOT>
job 5 at Thu Jul 25 10:00:00 2019
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM 6/22/2020
at> echo "hello"
at> <EOT>
job 6 at Mon Jun 22 10:00:00 2020
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM tomorrow
at> echo "hello"
at> <EOT>
job 7 at Wed Jun 26 10:00:00 2019
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at 10:00 AM next month
at> echo "hello"
at> <EOT>
job 8 at Thu Jul 25 10:00:00 2019
[root@localhost ~]#
[root@localhost ~]# at now + 1 hour
```

```
at> echo "hello"
at> <EOT>
job 9 at Tue Jun 25 10:44:00 2019
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at now + 30 minutes
at> echo "hello"
at> <EOT>
job 10 at Tue Jun 25 10:14:00 2019
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at now + 1 week
at> echo "hello"
at> <EOT>
job 11 at Tue Jul 2 09:45:00 2019
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at now + 1 year
at> echo "hello"
at> <EOT>
job 12 at Thu Jun 25 09:45:00 2020
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at now + 2 years
at> echo "hello"
at> <EOT>
job 13 at Fri Jun 25 09:45:00 2021
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# at midnight
```

```
at> echo "hello"
at> <EOT>
job 14 at Wed Jun 26 00:00:00 2019
[root@localhost ~]#
```

```
[root@localhost ~]# atq
        Tue Jun 25 10:00:00 2019 a root
3
        Sun Jun 30 10:00:00 2019 a root
4
        Thu Jul 25 10:00:00 2019 a root
5
6
        Mon Jun 22 10:00:00 2020 a root
7
        Wed Jun 26 10:00:00 2019 a root
8
        Thu Jul 25 10:00:00 2019 a root
       Tue Jun 25 10:44:00 2019 a root
9
       Tue Jun 25 10:14:00 2019 a root
10
11
       Tue Jul 2 09:45:00 2019 a root
12
        Thu Jun 25 09:45:00 2020 a root
        Fri Jun 25 09:45:00 2021 a root
13
14
        Wed Jun 26 00:00:00 2019 a root
[root@localhost ~]#
```

********* Finish
