Lab 9. Scheduling Jobs with cron

Cron / anacron / at	mhdm
	min hour day month day/veek (0~6)
untu@ip-172-31-35-100:~\$ cat /etc/crontab + Cran 건택 설명 VS Crowtab - 은 /etc/crontab: system-wide crontab Unlike any other crontab you don't have to run the `crontab'	*: 亞 改
command to install the new version when you edit this file and files in /etc/cron.d. These files also have username fields, that none of the other crontabs do.	, : 421 value 15, 45 * * by 154
ELL=/bin/sh You can also override PATH, but by default, newer versions inherit it from the environment	-: range 2-4 = 2AM, SAM, 4AM
ATH=/usr/local/sbin:/usr/local/bin:/sbin:/usr/sbin:/usr/bin	/: step /3 = every three hours
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	Crontab -l
* * * * * user-name command to be executed * * * * root cd / && run-partsreport /etc/cron.hourly	sudo contab - l
6 * * * root test -x /usr/sbin/anacron (cd / && run-partsreport /etc/cron.daily) 6 * * 7 root test -x /usr/sbin/anacron (cd / && run-partsreport /etc/cron.weekly) 6 1 * * root test -x /usr/sbin/anacron (cd / && run-partsreport /etc/cron.monthly)	sudo crontab -e -u jane

```
ubuntu@ip-172-31-35-100:~$ date
Mon May 26 11:08:31 UTC 2025
ubuntu@ip-172-31-35-100:~$ which touch
                                                                              crontab (e)
/usr/bin/touch
ubuntu@ip-172-31-35-100:~$ crontab -e
crontab: installing new crontab
ubuntu@ip-172-31-35-100:~$ crontab -l
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
                                                                              such crontab -e
# indicating with different fields when the task will be run
# and what command to run for the task
                                                                                              -e -u [user]
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
                                                                                 crontab - Mremore
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
                                                                                 Sudo crintals -r - u [user ]
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
                                                                                 ubuntu@ip-172-31-35-100:-$ touch mycronjob W Crowleb Agra
# For example, you can run a backup of all your user accounts
                                                                                 ubuntu@ip-172-31-35-100:~$ sudo cp mycronjob /etc/cr
# at 5 a.m every week with:
                                                                                 cron.d/
                                                                                                        cron.hourly/
                                                                                                                               cron.weekly/
                                                                                                                                                      crypt
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
                                                                                  cron.daily/
                                                                                                        cron.monthly/
                                                                                                                               crontab
                                                                                                                                                      cryp1
# For more information see the manual pages of crontab(5) and cron(8)
                                                                                 ubuntu@ip-172-31-35-100:-$ sudo cp mycronjob /etc/cr
                         Croniobe DULLER
                                                                                 cron.d/
                                                                                                        cron.hourly/
                                                                                                                               cron.weekly/
                                                                                                                                                      crypt
# m h dom mon dow command
                                                                                                        cron.monthly/
                                                                                                                               crontab
                                                                                 cron.dailv/
                                                                                                                                                      crypt
10 11 * * * Musr/bin/touch crontest UTC 11: 10 a) cronfest 2/2 The root
                                                                                 ubuntu@ip-172-31-35-100:-$ sudo cp mycronjob /etc/cron.hourly/
ubuntu@ip-172-31-35-100:~$ whoami
                                                                                                                                                 - ONH?는 실행
                                                                                 ubuntu@ip-172-31-35-100:-$ ls /etc/cron.hourly/
ubuntu
                                                                                 mycronjob
                                                                                 ubuntu@ip-172-31-35-100:-$ sudo chmod +rx /etc/cron.hourly/mycronjob
ubuntu@ip-172-31-35-100:~$ crontab -e -u ubuntu
                                                                                                                   growt
No modification made
                                           AM APG
ubuntu@ip-172-31-35-100:~$ #
ubuntu@ip-172-31-35-100:~$ ls
crontest lab
ubuntu@ip-172-31-35-100:~$ date
Mon May 26 11:10:46 UTC 2025
ubuntu@ip-172-31-35-100:~$ crontab -r crontab 4444
ubuntu@ip-172-31-35-100:~$ crontab -l
no crontab for ubuntu
```

```
@Macron
ubuntu@ip-172-33
# /etc/anacronta
```

```
# These replace cron's entries

These replace cron's entries

These replace cron.weekly run-parts --report /etc/cron.weekly

Toron.weekly run-parts --report /etc/cron.monthly

DRASTNS
```

(at)

ubuntu@ip-172-31-35-100:~\$ at Garbled time
ubuntu@ip-172-31-35-100:~\$ at '15:00'
warning: commands will be executed using /bin/sh at Mon May 26 15:00:00 2025
at> /usr/bin/touch ~/at_file
at> <EOT> Ctcl +D
job 1 at Mon May 26 15:00:00 2025
ubuntu@ip-172-31-35-100:~\$ atq of Lift = of -L

Mon May 26 15:00:00 2025 a ubuntu
ubuntu@ip-172-31-35-100:~\$ at -c 1 \lambda \l

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August 20 2025

2130) August 20 2005

nov + 30 millionter

+ 3 hours

चेत्रिश = श

offline gog 428

weeks

+ 3 days

anacron log tel
amacron log 並包 = Sys/log/cron
force nery anacron
sub onacron -n -f