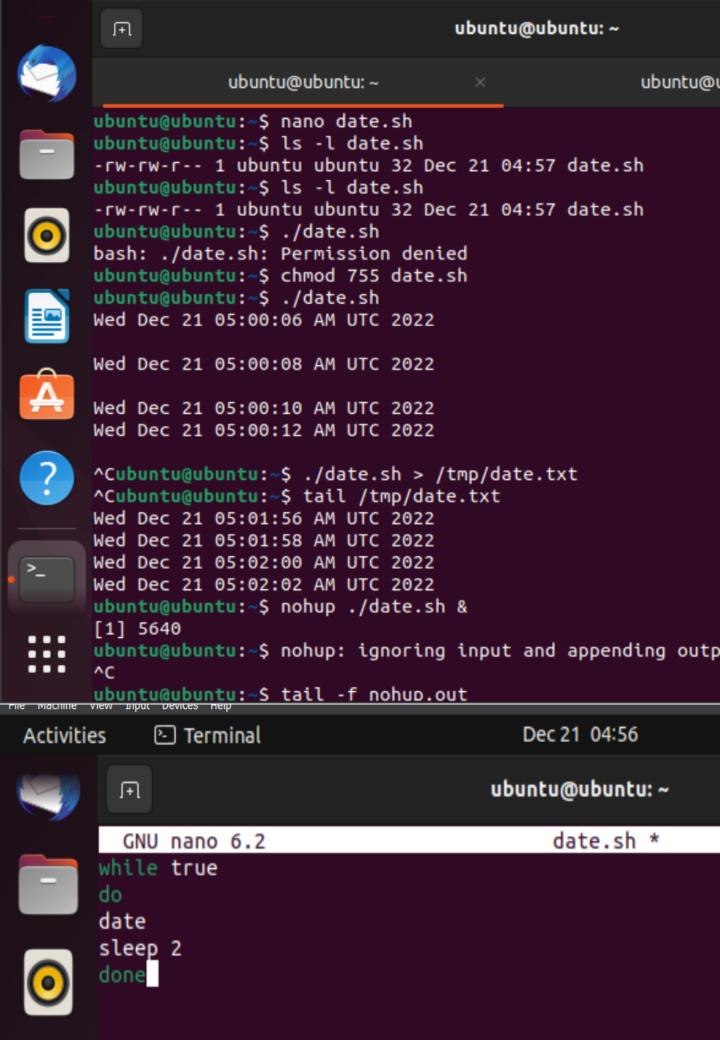
## Redhat: Lab03

```
Steps:
```

```
1) Nano time.sh
     will open new page (write in it)
          While true
          do
          date
          sleep 2
          done
               then click (ctrl+x)--> (y //to save)--> (enter //to name it)
2) ls -1 time.sh
3) chmod 755 time.sh //to make permission undenied
4) ./time.sh
5) ./time.sh > /tmp/time.txt
6) tail /tmp/time.txt //to see it's output
7) nohup ./time.sh &
8) click(ctrl+c) //to get out (exit)
9) tail -f nohup.out
10) cat /lib/systemd/sytem/cron.service then copy this output
11) nano cron.service //to open it then paste your copy here
12) sytemctl daemon-reload
13) sytemctl enable cron.service
14) sytemctl start cron
15) sytemctl status cron.service
To kill the process:
1) ps -ef | grep time.sh
2) Kill (the output number)
3) ps -1
```





```
ubuntu@ubuntu: ~
                                                  ubuntu@ubuntu: ~
ubuntu@ubuntu:~$ tail -f nohup.out
Wed Dec 21 05:04:06 AM UTC 2022
Wed Dec 21 05:04:08 AM UTC 2022
Wed Dec 21 05:04:10 AM UTC 2022
Wed Dec 21 05:04:12 AM UTC 2022
Wed Dec 21 05:04:14 AM UTC 2022
Wed Dec 21 05:04:16 AM UTC 2022
Wed Dec 21 05:04:18 AM UTC 2022
Wed Dec 21 05:04:20 AM UTC 2022
Wed Dec 21 05:04:22 AM UTC 2022
Wed Dec 21 05:04:24 AM UTC 2022
Wed Dec 21 05:04:27 AM UTC 2022
Wed Dec 21 05:04:29 AM UTC 2022
^C
ubuntu@ubuntu:~$ cat /lib/systemd/system/cron.service
[Unit]
Description=Regular background program processing daemon
Documentation=man:cron(8)
After=remote-fs.target nss-user-lookup.target
[Service]
EnvironmentFile=-/etc/default/cron
ExecStart=/usr/sbin/cron -f -P $EXTRA_OPTS
IgnoreSIGPIPE=false
KillMode=process
Restart=on-failure
[Install]
WantedBy=multi-user.target
ubuntu@ubuntu:~$ nano cron.service
ubuntu@ubuntu:~$ /etc/systemd/system/
bash: /etc/systemd/system/: Is a directory
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$ systemctl daemon-reload
ubuntu@ubuntu:~$ systemctl enable cron.service
Synchronizing state of cron.service with SysV service script with
systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable cron
ubuntu@ubuntu:~$ systemctl start cron
ubuntu@ubuntu:~$ systemctl status cron.service
cron.service - Regular background program processing daemon
     Loaded: loaded (/lib/systemd/system/cron.service; enabled; ver
     Active: active (running) since Wed 2022-12-21 04:53:20 UTC; 1
        Docs: man:cron(8)
   Main PID: 1425 (cron)
       Tasks: 1 (limit: 3512)
      Memory: 480.0K
```

```
CPU: 35ms
     CGroup: /system.slice/cron.service
               –1425 /usr/sbin/cron -f -P
Dec 21 04:53:20 ubuntu systemd[1]: Started Regular background program processi>
Dec 21 04:53:20 ubuntu cron[1425]: (CRON) INFO (pidfile fd = 3)
Dec 21 04:53:20 ubuntu cron[1425]: (CRON) INFO (Running @reboot jobs)
Dec 21 05:17:01 ubuntu CRON[7146]: pam_unix(cron:session): session opened for >
Dec 21 05:17:01 ubuntu CRON[7147]: (root) CMD ( cd / && run-parts --report />
Dec 21 05:17:01 ubuntu CRON[7146]: pam_unix(cron:session): session closed for >
ubuntu@ubuntu:~$
GNU nano 6.2
                                    cron.service
Unit]
Description=Regular background program processing daemon
Documentation=man:cron(8)
After=remote-fs.target nss-user-lookup.target
[Service]
EnvironmentFile=-/etc/default/cron
ExecStart=/usr/sbin/cron -f -P $EXTRA OPTS
IgnoreSIGPIPE=false
KillMode=process
Restart=on-failure
[Install]
WantedBy=multi-user.target
                               [ Read 14 lines ]
               ^O Write Out
                              ^W Where Is
                                             ^K Cut
^G Help
                                                             ^T Execute
                                                               Justify
^X Exit
               ^R Read File
                                 Replace
                                             ^U Paste
ubuntu@ubuntu:~$ ps -ef | grep date.sh
            5640
                          0 05:03 pts/0
                                            00:00:00 /bin/sh ./date
ubuntu
                    5523
ubuntu
            9652
                          0 05:39 pts/1
                                            00:00:00 grep --color=auto date.
                    9507
ubuntu@ubuntu:~$ kill 5640
ubuntu@ubuntu:~$ ps -l
                                   NI ADDR SZ WCHAN
F S
                     PPID C PRI
                                                                   TIME CMD
      UID
              PID
                                                     TTY
4 S
                                   0 -
                                         4916 do wai pts/1
                                                               00:00:00 bash
      999
             9507
                     5503 0
                               80
      999
             9694
                     9507
                               80
                                                     pts/1
                                                               00:00:00 ps
ubuntu@ubuntu:~S
```

Tasks: 1 (limit: 3512)

Memory: 480.0K

## END of Lab 03 Mahmoud Mohamed Ahmed Saad