Lab-3 Ubuntu

Ahmed Ashraf Ibrahim

ahmed09ashraf@Ubuntu-2: ~

```
ahmed09ashraf@Ubuntu-2:~$ 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
ahmed09ashraf@Ubuntu-2:~$
```

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```
ahmed09ashraf@Ubuntu-2:~$ nano cron.service
ahmed09ashraf@Ubuntu-2:~$ systemctl daemon-reload
ahmed09ashraf@Ubuntu-2:~$ systemctl enable cron.service
Synchronizing state of cron.service with SysV service script with /lib/systemd/
systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable cron
Failed to enable unit: Access denied
ahmed09ashraf@Ubuntu-2:~$ nano cron.service
ahmed09ashraf@Ubuntu-2:~$ systemctl daemon-reload
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$ systemctl enable cron.service
Synchronizing state of cron.service with SysV service script with /lib/systemd/
systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable cron
^C
ahmed09ashraf@Ubuntu-2:~$ systemctl start cron
ahmed09ashraf@Ubuntu-2:~$ systemctl status cron.service
● cron.service - Regular background program processing daemon
     Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset:>
     Active: active (running) since Wed 2022-12-21 23:40:31 EET; 26min ago
       Docs: man:cron(8)
   Main PID: 624 (cron)
      Tasks: 1 (limit: 2287)
     Memory: 444.0K
        CPU: 8ms
     CGroup: /system.slice/cron.service
             └─624 /usr/sbin/cron -f -P

Warning: some journal files were not opened due to insufficient permissions.
```

⟨+⟩   **ahmed09ashraf@Ubuntu-2: ~**   Q   ☰   —   ⬚   ✕

```
ahmed09ashraf@Ubuntu-2:~$ systemctl kill cron.service
ahmed09ashraf@Ubuntu-2:~$ service cron status
○ cron.service - Regular background program processing daemon
     Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset:>
     Active: inactive (dead) since Thu 2022-12-22 00:12:05 EET; 13s ago
       Docs: man:cron(8)
    Process: 624 ExecStart=/usr/sbin/cron -f -P $EXTRA_OPTS (code=killed, sign>
   Main PID: 624 (code=killed, signal=TERM)
        CPU: 9ms
```

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```
ahmed09ashraf@Ubuntu-2:~$ ps -ef | grep task.sh
ahmed09+     3702     2368  0 Dec21 pts/0     00:00:00 /bin/sh ./task.sh
ahmed09+     6054     2368  0 00:13 pts/0     00:00:00 grep --color=auto task.sh
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$ kill 3702
ahmed09ashraf@Ubuntu-2:~$
[1]+  Terminated              nohup ./task.sh
ahmed09ashraf@Ubuntu-2:~$ pas -ef | grep task.sh
Command 'pas' not found, but there are 20 similar ones.
ahmed09ashraf@Ubuntu-2:~$ ps -ef | grep task.sh
ahmed09+     6129     2368  0 00:14 pts/0     00:00:00 grep --color=auto task.sh
ahmed09ashraf@Ubuntu-2:~$ kill 6129
bash: kill: (6129) - No such process
ahmed09ashraf@Ubuntu-2:~$ kill 2368
ahmed09ashraf@Ubuntu-2:~$ ps -ef |grep task.sh
ahmed09+     6131     2368  0 00:15 pts/0     00:00:00 grep --color=auto task.sh
ahmed09ashraf@Ubuntu-2:~$ ps -l
F S   UID     PID    PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
0 S  1000    2368    2350  0  80   0 -  5061 do_wai pts/0    00:00:00 bash
0 R  1000    6132    2368  0  80   0 -  5412 -      pts/0    00:00:00 ps
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$ nohup ./task.sh
nohup: ignoring input and appending output to 'nohup.out'
^C
ahmed09ashraf@Ubuntu-2:~$ nohup.out
nohup.out: command not found
ahmed09ashraf@Ubuntu-2:~$ ls
cron.service  Documents  Music     Pictures  snap    Templates
```

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```
ahmed09ashraf@Ubuntu-2:~$ ps -ef | grep bg
ahmed09+    6242    2368  0 00:22 pts/0    00:00:00 grep --color=auto bg
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$ ps -ef |grep task.sh
ahmed09+    6244    2368  0 00:22 pts/0    00:00:00 grep --color=auto task.sh
ahmed09ashraf@Ubuntu-2:~$
ahmed09ashraf@Ubuntu-2:~$ ps -l
F S   UID     PID    PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
0 S  1000    2368    2350  0  80   0 -  5061 do_wai pts/0    00:00:00 bash
0 R  1000    6245    2368  0  80   0 -  5412 -      pts/0    00:00:00 ps
ahmed09ashraf@Ubuntu-2:~$
```

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```
Tasks: 188 total,   1 running, 187 sleeping,   0 stopped,   0 zombie
%Cpu(s):  6.5 us,  2.2 sy,  0.0 ni, 91.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1975.8 total,     63.9 free,    732.3 used,   1179.6 buff/cache
MiB Swap:   2680.0 total,   2595.4 free,     84.6 used.   1077.4 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
     91 root      20   0       0      0      0 S   0.0   0.0   0:04.53 kswapd0
     92 root      20   0       0      0      0 S   0.0   0.0   0:00.00 ecrypt+
     94 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kthrot+
     95 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 acpi_t+
     97 root      20   0       0      0      0 S   0.0   0.0   0:00.02 scsi_e+
     98 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 scsi_t+
     99 root      20   0       0      0      0 S   0.0   0.0   0:00.00 scsi_e+
    100 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 scsi_t+
    102 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 vfio-i+
    103 root      20   0       0      0      0 I   0.0   0.0   0:01.16 kworke+
    104 root       0 -20       0      0      0 I   0.0   0.0   0:01.31 kworke+
    105 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mld
    106 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 ipv6_a+
    117 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kstrp
    120 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 zswap-+
    121 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworke+
    126 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 charge+
    168 root      20   0       0      0      0 S   0.0   0.0   0:00.00 scsi_e+
    169 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 scsi_t+
    194 root      20   0       0      0      0 S   0.0   0.0   0:01.17 jbd2/s+
    195 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 ext4-r+
    235 root      19  -1   48276  15760  14192 S   0.0   0.8   0:01.08 system+
ahmed09ashraf@Ubuntu-2:~$
```