TP de TP3

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Contents

1 Services

1.1 Definition

1.1.1 Question 1

- daemon → un processus qui s'execute en arriere-plan sans association avec le terminal TTY. Le processus parent d'un processus demon est `init`.
- processus → un ensemble de taches, un ensemble de lignes de code a executer par le processeur.
- application

1.2 Analyse de systemd

1.2.1 Question 1

`systemctl status -a`

1.2.2 Question 2

1.3 Analyse des processus actifs

1.3.1 Question 1

```
ps -e
```

```
##     PID TTY          TIME CMD
##       1 ?        00:00:02 systemd
##       2 ?        00:00:00 kthreadd
##       3 ?        00:00:00 rcu_gp
##       4 ?        00:00:00 rcu_par_gp
##       5 ?        00:00:03 kworker/0:0-events
##       6 ?        00:00:00 kworker/0:0H-kblockd
##       9 ?        00:00:00 mm_percpu_wq
##      10 ?        00:00:00 ksoftirqd/0
##      11 ?        00:00:00 rcu_sched
##      12 ?        00:00:00 migration/0
##      13 ?        00:00:00 idle_inject/0
##      14 ?        00:00:00 cpuhp/0
##      15 ?        00:00:00 kdevtmpfs
##      16 ?        00:00:00 netns
##      17 ?        00:00:00 rcu_tasks_kthre
##      18 ?        00:00:00 kauditd
##      19 ?        00:00:00 khungtaskd
##      20 ?        00:00:00 oom_reaper
##      21 ?        00:00:00 writeback
##      22 ?        00:00:00 kcompactd0
##      23 ?        00:00:00 ksmd
##      24 ?        00:00:00 khugepaged
##      70 ?        00:00:00 kintegrityd
##      71 ?        00:00:00 kblockd
##      72 ?        00:00:00 blkcg_punt_bio
##      73 ?        00:00:00 tpm_dev_wq
##      74 ?        00:00:00 ata_sff
##      75 ?        00:00:00 md
##      76 ?        00:00:00 edac-poller
##      77 ?        00:00:00 devfreq_wq
##      78 ?        00:00:00 watchdogd
##      81 ?        00:00:00 kswapd0
##      82 ?        00:00:00 ecryptfs-kthrea
##      84 ?        00:00:00 kthrotld
##      85 ?        00:00:00 irq/24-pciehp
##      86 ?        00:00:00 irq/25-pciehp
##      87 ?        00:00:00 irq/26-pciehp
##      88 ?        00:00:00 irq/27-pciehp
##      89 ?        00:00:00 irq/28-pciehp
##      90 ?        00:00:00 irq/29-pciehp
##      91 ?        00:00:00 irq/30-pciehp
##      92 ?        00:00:00 irq/31-pciehp
##      93 ?        00:00:00 irq/32-pciehp
##      94 ?        00:00:00 irq/33-pciehp
##      95 ?        00:00:00 irq/34-pciehp
```

```
##      96 ?        00:00:00 irq/35-pciehp
##      97 ?        00:00:00 irq/36-pciehp
##      98 ?        00:00:00 irq/37-pciehp
##      99 ?        00:00:00 irq/38-pciehp
##     100 ?        00:00:00 irq/39-pciehp
##     101 ?        00:00:00 irq/40-pciehp
##     102 ?        00:00:00 irq/41-pciehp
##     103 ?        00:00:00 irq/42-pciehp
##     104 ?        00:00:00 irq/43-pciehp
##     105 ?        00:00:00 irq/44-pciehp
##     106 ?        00:00:00 irq/45-pciehp
##     107 ?        00:00:00 irq/46-pciehp
##     108 ?        00:00:00 irq/47-pciehp
##     109 ?        00:00:00 irq/48-pciehp
##     110 ?        00:00:00 irq/49-pciehp
##     111 ?        00:00:00 irq/50-pciehp
##     112 ?        00:00:00 irq/51-pciehp
##     113 ?        00:00:00 irq/52-pciehp
##     114 ?        00:00:00 irq/53-pciehp
##     115 ?        00:00:00 irq/54-pciehp
##     116 ?        00:00:00 irq/55-pciehp
##     117 ?        00:00:00 acpi_thermal_pm
##     118 ?        00:00:00 scsi_eh_0
##     119 ?        00:00:00 scsi_tmf_0
##     120 ?        00:00:00 scsi_eh_1
##     121 ?        00:00:00 scsi_tmf_1
##     123 ?        00:00:00 vfio-irqfd-clea
##     124 ?        00:00:00 ipv6_addrconf
##     134 ?        00:00:00 kstrp
##     137 ?        00:00:00 kworker/u3:0
##     151 ?        00:00:00 charger_manager
##     185 ?        00:00:00 scsi_eh_2
##     186 ?        00:00:00 mpt_poll_0
##     187 ?        00:00:00 mpt/0
##     188 ?        00:00:00 scsi_tmf_2
##     189 ?        00:00:00 scsi_eh_3
##     190 ?        00:00:00 scsi_tmf_3
##     191 ?        00:00:00 scsi_eh_4
##     192 ?        00:00:00 scsi_tmf_4
##     193 ?        00:00:00 cryptd
##     194 ?        00:00:00 scsi_eh_5
##     197 ?        00:00:00 scsi_tmf_5
##     201 ?        00:00:00 scsi_eh_6
##     205 ?        00:00:00 scsi_tmf_6
##     208 ?        00:00:00 scsi_eh_7
##     211 ?        00:00:00 scsi_tmf_7
##     212 ?        00:00:00 scsi_eh_8
##     213 ?        00:00:00 scsi_tmf_8
##     215 ?        00:00:00 scsi_eh_9
##     219 ?        00:00:00 scsi_tmf_9
##     221 ?        00:00:00 scsi_eh_10
##     223 ?        00:00:00 scsi_tmf_10
##     226 ?        00:00:00 scsi_eh_11
##     228 ?        00:00:00 scsi_tmf_11
```

```
## 230 ?        00:00:00 scsi_eh_12
## 232 ?        00:00:00 scsi_tmf_12
## 234 ?        00:00:00 scsi_eh_13
## 236 ?        00:00:00 scsi_tmf_13
## 238 ?        00:00:00 irq/16-vmwgfx
## 240 ?        00:00:00 scsi_eh_14
## 242 ?        00:00:00 scsi_tmf_14
## 243 ?        00:00:00 scsi_eh_15
## 245 ?        00:00:00 ttm_swap
## 246 ?        00:00:00 scsi_tmf_15
## 248 ?        00:00:00 scsi_eh_16
## 250 ?        00:00:00 scsi_tmf_16
## 252 ?        00:00:00 scsi_eh_17
## 254 ?        00:00:00 scsi_tmf_17
## 255 ?        00:00:00 scsi_eh_18
## 256 ?        00:00:00 scsi_tmf_18
## 257 ?        00:00:00 scsi_eh_19
## 258 ?        00:00:00 scsi_tmf_19
## 259 ?        00:00:00 scsi_eh_20
## 260 ?        00:00:00 scsi_tmf_20
## 261 ?        00:00:00 scsi_eh_21
## 262 ?        00:00:00 scsi_tmf_21
## 263 ?        00:00:00 scsi_eh_22
## 264 ?        00:00:00 scsi_tmf_22
## 265 ?        00:00:00 scsi_eh_23
## 266 ?        00:00:00 scsi_tmf_23
## 267 ?        00:00:00 scsi_eh_24
## 268 ?        00:00:00 scsi_tmf_24
## 269 ?        00:00:00 scsi_eh_25
## 270 ?        00:00:00 scsi_tmf_25
## 271 ?        00:00:00 scsi_eh_26
## 272 ?        00:00:00 scsi_tmf_26
## 273 ?        00:00:00 scsi_eh_27
## 274 ?        00:00:00 scsi_tmf_27
## 275 ?        00:00:00 scsi_eh_28
## 276 ?        00:00:00 scsi_tmf_28
## 277 ?        00:00:00 scsi_eh_29
## 278 ?        00:00:00 scsi_tmf_29
## 279 ?        00:00:00 scsi_eh_30
## 280 ?        00:00:00 scsi_tmf_30
## 281 ?        00:00:00 scsi_eh_31
## 282 ?        00:00:00 scsi_tmf_31
## 310 ?        00:00:00 scsi_eh_32
## 311 ?        00:00:00 scsi_tmf_32
## 312 ?        00:00:00 kworker/0:1H-kblockd
## 349 ?        00:00:00 raid5wq
## 389 ?        00:00:00 jbd2/sda3-8
## 390 ?        00:00:00 ext4-rsv-conver
## 446 ?        00:00:00 systemd-journal
## 478 ?        00:00:00 systemd-udevd
## 480 ?        00:00:00 systemd-network
## 621 ?        00:00:00 kaluad
## 622 ?        00:00:00 kmpath_rdacd
## 623 ?        00:00:00 kmpathd
```

```
## 624 ?           00:00:00 kmpath_handlerd
## 625 ?           00:00:01 multipathd
## 636 ?           00:00:00 jbd2/sda2-8
## 638 ?           00:00:00 ext4-rsv-conver
## 640 ?           00:00:00 loop0
## 641 ?           00:00:00 jbd2/sda4-8
## 643 ?           00:00:00 ext4-rsv-conver
## 645 ?           00:00:00 loop1
## 647 ?           00:00:00 loop3
## 648 ?           00:00:00 loop4
## 665 ?           00:00:00 systemd-resolve
## 666 ?           00:00:00 systemd-timesyn
## 678 ?           00:00:00 VGAuthService
## 684 ?           00:00:03 vmtoolsd
## 709 ?           00:00:00 accounts-daemon
## 710 ?           00:00:00 dbus-daemon
## 718 ?           00:00:00 networkd-dispat
## 719 ?           00:00:00 rsyslogd
## 723 ?           00:00:00 systemd-logind
## 755 ?           00:00:00 cron
## 768 ?           00:00:00 atd
## 787 ?           00:00:00 sshd
## 788 tty1        00:00:00 login
## 796 ?           00:00:00 unattended-upgr
## 809 ?           00:00:00 polkitd
## 992 ?           00:00:00 loop6
## 1026 ?          00:00:03 snapd
## 1231 ?          00:00:00 loop5
## 1728 ?          00:00:00 systemd
## 1729 ?          00:00:00 (sd-pam)
## 1734 tty1       00:00:00 bash
## 4668 ?          00:00:00 kworker/0:1-events
## 6508 ?          00:00:00 kworker/u2:1-events_power_efficient
## 7073 ?          00:00:00 kworker/u2:0-events_power_efficient
## 7522 tty1       00:00:00 vim
## 7591 tty1       00:00:00 bash
## 7593 tty1       00:00:00 R
## 7609 tty1       00:00:00 sh
## 7610 tty1       00:00:00 ps
```

explain

```
ps -aux
```

```
## USER         PID %CPU %MEM    VSZ    RSS TTY      STAT START   TIME COMMAND
## root           1  0.0  1.2 105108  12520 ?        Ss   11:28   0:02 /sbin/init maybe-ubiquity
## root           2  0.0  0.0      0      0 ?        S    11:28   0:00 [kthreadd]
## root           3  0.0  0.0      0      0 ?        I<   11:28   0:00 [rcu_gp]
## root           4  0.0  0.0      0      0 ?        I<   11:28   0:00 [rcu_par_gp]
## root           5  0.0  0.0      0      0 ?        I    11:28   0:03 [kworker/0:0-events]
## root           6  0.0  0.0      0      0 ?        I<   11:28   0:00 [kworker/0:0H-kblockd]
## root           9  0.0  0.0      0      0 ?        I<   11:28   0:00 [mm_percpu_wq]
## root          10  0.0  0.0      0      0 ?        S    11:28   0:00 [ksoftirqd/0]
```

```
## root          11  0.0  0.0        0       0 ?           I      11:28    0:00 [rcu_sched]
## root          12  0.0  0.0        0       0 ?           S      11:28    0:00 [migration/0]
## root          13  0.0  0.0        0       0 ?           S      11:28    0:00 [idle_inject/0]
## root          14  0.0  0.0        0       0 ?           S      11:28    0:00 [cpuhp/0]
## root          15  0.0  0.0        0       0 ?           S      11:28    0:00 [kdevtmpfs]
## root          16  0.0  0.0        0       0 ?           I<     11:28    0:00 [netns]
## root          17  0.0  0.0        0       0 ?           S      11:28    0:00 [rcu_tasks_kthre]
## root          18  0.0  0.0        0       0 ?           S      11:28    0:00 [kauditd]
## root          19  0.0  0.0        0       0 ?           S      11:28    0:00 [khungtaskd]
## root          20  0.0  0.0        0       0 ?           S      11:28    0:00 [oom_reaper]
## root          21  0.0  0.0        0       0 ?           I<     11:28    0:00 [writeback]
## root          22  0.0  0.0        0       0 ?           S      11:28    0:00 [kcompactd0]
## root          23  0.0  0.0        0       0 ?           SN     11:28    0:00 [ksmd]
## root          24  0.0  0.0        0       0 ?           SN     11:28    0:00 [khugepaged]
## root          70  0.0  0.0        0       0 ?           I<     11:28    0:00 [kintegrityd]
## root          71  0.0  0.0        0       0 ?           I<     11:28    0:00 [kblockd]
## root          72  0.0  0.0        0       0 ?           I<     11:28    0:00 [blkcg_punt_bio]
## root          73  0.0  0.0        0       0 ?           I<     11:28    0:00 [tpm_dev_wq]
## root          74  0.0  0.0        0       0 ?           I<     11:28    0:00 [ata_sff]
## root          75  0.0  0.0        0       0 ?           I<     11:28    0:00 [md]
## root          76  0.0  0.0        0       0 ?           I<     11:28    0:00 [edac-poller]
## root          77  0.0  0.0        0       0 ?           I<     11:28    0:00 [devfreq_wq]
## root          78  0.0  0.0        0       0 ?           S      11:28    0:00 [watchdogd]
## root          81  0.0  0.0        0       0 ?           S      11:28    0:00 [kswapd0]
## root          82  0.0  0.0        0       0 ?           S      11:28    0:00 [ecryptfs-kthrea]
## root          84  0.0  0.0        0       0 ?           I<     11:28    0:00 [kthrotld]
## root          85  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/24-pciehp]
## root          86  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/25-pciehp]
## root          87  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/26-pciehp]
## root          88  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/27-pciehp]
## root          89  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/28-pciehp]
## root          90  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/29-pciehp]
## root          91  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/30-pciehp]
## root          92  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/31-pciehp]
## root          93  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/32-pciehp]
## root          94  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/33-pciehp]
## root          95  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/34-pciehp]
## root          96  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/35-pciehp]
## root          97  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/36-pciehp]
## root          98  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/37-pciehp]
## root          99  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/38-pciehp]
## root         100  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/39-pciehp]
## root         101  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/40-pciehp]
## root         102  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/41-pciehp]
## root         103  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/42-pciehp]
## root         104  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/43-pciehp]
## root         105  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/44-pciehp]
## root         106  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/45-pciehp]
## root         107  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/46-pciehp]
## root         108  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/47-pciehp]
## root         109  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/48-pciehp]
## root         110  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/49-pciehp]
## root         111  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/50-pciehp]
## root         112  0.0  0.0        0       0 ?           S      11:28    0:00 [irq/51-pciehp]
```

```
## root          113  0.0  0.0         0      0 ?            S     11:28   0:00 [irq/52-pciehp]
## root          114  0.0  0.0         0      0 ?            S     11:28   0:00 [irq/53-pciehp]
## root          115  0.0  0.0         0      0 ?            S     11:28   0:00 [irq/54-pciehp]
## root          116  0.0  0.0         0      0 ?            S     11:28   0:00 [irq/55-pciehp]
## root          117  0.0  0.0         0      0 ?            I<    11:28   0:00 [acpi_thermal_pm]
## root          118  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_0]
## root          119  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_0]
## root          120  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_1]
## root          121  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_1]
## root          123  0.0  0.0         0      0 ?            I<    11:28   0:00 [vfio-irqfd-clea]
## root          124  0.0  0.0         0      0 ?            I<    11:28   0:00 [ipv6_addrconf]
## root          134  0.0  0.0         0      0 ?            I<    11:28   0:00 [kstrp]
## root          137  0.0  0.0         0      0 ?            I<    11:28   0:00 [kworker/u3:0]
## root          151  0.0  0.0         0      0 ?            I<    11:28   0:00 [charger_manager]
## root          185  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_2]
## root          186  0.0  0.0         0      0 ?            I<    11:28   0:00 [mpt_poll_0]
## root          187  0.0  0.0         0      0 ?            I<    11:28   0:00 [mpt/0]
## root          188  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_2]
## root          189  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_3]
## root          190  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_3]
## root          191  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_4]
## root          192  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_4]
## root          193  0.0  0.0         0      0 ?            I<    11:28   0:00 [cryptd]
## root          194  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_5]
## root          197  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_5]
## root          201  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_6]
## root          205  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_6]
## root          208  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_7]
## root          211  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_7]
## root          212  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_8]
## root          213  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_8]
## root          215  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_9]
## root          219  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_9]
## root          221  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_10]
## root          223  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_10]
## root          226  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_11]
## root          228  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_11]
## root          230  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_12]
## root          232  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_12]
## root          234  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_13]
## root          236  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_13]
## root          238  0.0  0.0         0      0 ?            S     11:28   0:00 [irq/16-vmwgfx]
## root          240  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_14]
## root          242  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_14]
## root          243  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_15]
## root          245  0.0  0.0         0      0 ?            I<    11:28   0:00 [ttm_swap]
## root          246  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_15]
## root          248  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_16]
## root          250  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_16]
## root          252  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_17]
## root          254  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_17]
## root          255  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_18]
## root          256  0.0  0.0         0      0 ?            I<    11:28   0:00 [scsi_tmf_18]
## root          257  0.0  0.0         0      0 ?            S     11:28   0:00 [scsi_eh_19]
```

```
## root          258  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_19]
## root          259  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_20]
## root          260  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_20]
## root          261  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_21]
## root          262  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_21]
## root          263  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_22]
## root          264  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_22]
## root          265  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_23]
## root          266  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_23]
## root          267  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_24]
## root          268  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_24]
## root          269  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_25]
## root          270  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_25]
## root          271  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_26]
## root          272  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_26]
## root          273  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_27]
## root          274  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_27]
## root          275  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_28]
## root          276  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_28]
## root          277  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_29]
## root          278  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_29]
## root          279  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_30]
## root          280  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_30]
## root          281  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_31]
## root          282  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_31]
## root          310  0.0  0.0       0      0 ?        S    11:28  0:00 [scsi_eh_32]
## root          311  0.0  0.0       0      0 ?        I<   11:28  0:00 [scsi_tmf_32]
## root          312  0.0  0.0       0      0 ?        I<   11:28  0:00 [kworker/0:1H-kblockd]
## root          349  0.0  0.0       0      0 ?        I<   11:28  0:00 [raid5wq]
## root          389  0.0  0.0       0      0 ?        S    11:28  0:00 [jbd2/sda3-8]
## root          390  0.0  0.0       0      0 ?        I<   11:28  0:00 [ext4-rsv-conver]
## root          446  0.0  2.2   75400  22660 ?        S<s  11:28  0:00 /lib/systemd/systemd-journald
## root          478  0.0  0.5   22020   5696 ?        Ss   11:28  0:00 /lib/systemd/systemd-udevd
## systemd+      480  0.0  0.7   26748   7464 ?        Ss   11:28  0:00 /lib/systemd/systemd-networkd
## root          621  0.0  0.0       0      0 ?        I<   11:28  0:00 [kaluad]
## root          622  0.0  0.0       0      0 ?        I<   11:28  0:00 [kmpath_rdacd]
## root          623  0.0  0.0       0      0 ?        I<   11:28  0:00 [kmpathd]
## root          624  0.0  0.0       0      0 ?        I<   11:28  0:00 [kmpath_handlerd]
## root          625  0.0  1.7  345760  17980 ?        SLsl 11:28  0:01 /sbin/multipathd -d -s
## root          636  0.0  0.0       0      0 ?        S    11:28  0:00 [jbd2/sda2-8]
## root          638  0.0  0.0       0      0 ?        I<   11:28  0:00 [ext4-rsv-conver]
## root          640  0.0  0.0       0      0 ?        S<   11:28  0:00 [loop0]
## root          641  0.0  0.0       0      0 ?        S    11:28  0:00 [jbd2/sda4-8]
## root          643  0.0  0.0       0      0 ?        I<   11:28  0:00 [ext4-rsv-conver]
## root          645  0.0  0.0       0      0 ?        S<   11:28  0:00 [loop1]
## root          647  0.0  0.0       0      0 ?        S<   11:28  0:00 [loop3]
## root          648  0.0  0.0       0      0 ?        S<   11:28  0:00 [loop4]
## systemd+      665  0.0  1.1   24052  11932 ?        Ss   11:28  0:00 /lib/systemd/systemd-resolved
## systemd+      666  0.0  0.5   90168   6020 ?        Ssl  11:28  0:00 /lib/systemd/systemd-timesyncd
## root          678  0.0  1.0   47532  10160 ?        Ss   11:28  0:00 /usr/bin/VGAuthService
## root          684  0.0  0.6  162512   6700 ?        Ssl  11:28  0:03 /usr/bin/vmtoolsd
## root          709  0.0  0.6  235556   6832 ?        Ssl  11:28  0:00 /usr/lib/accountsservice/accounts-
## message+      710  0.0  0.4    7504   4428 ?        Ss   11:28  0:00 /usr/bin/dbus-daemon --system --a
## root          718  0.0  1.6   29072  16944 ?        Ss   11:28  0:00 /usr/bin/python3 /usr/bin/networkd
```

```
## syslog     719  0.0  0.4 224332   4636 ?     Ssl  11:28  0:00 /usr/sbin/rsyslogd -n -iNONE
## root       723  0.0  0.7  16820   7884 ?     Ss   11:28  0:00 /lib/systemd/systemd-logind
## root       755  0.0  0.2   6812   2852 ?     Ss   11:28  0:00 /usr/sbin/cron -f
## daemon     768  0.0  0.2   3792   2236 ?     Ss   11:28  0:00 /usr/sbin/atd -f
## root       787  0.0  0.6  12168   6848 ?     Ss   11:28  0:00 sshd: /usr/sbin/sshd -D [listener]
## root       788  0.0  0.3   5968   3152 tty1  Ss   11:28  0:00 /bin/login -p --
## root       796  0.0  1.8 107876  18716 ?     Ssl  11:28  0:00 /usr/bin/python3 /usr/share/unatt
## root       809  0.0  0.7 233676   7440 ?     Ssl  11:28  0:00 /usr/lib/policykit-1/polkitd --no-
## root       992  0.0  0.0      0      0 ?     S<   11:28  0:00 [loop6]
## root      1026  0.0  2.9 645396  29196 ?     Ssl  11:29  0:03 /usr/lib/snapd/snapd
## root      1231  0.0  0.0      0      0 ?     S<   11:29  0:00 [loop5]
## dibraerg  1728  0.0  0.9  18556   9728 ?     Ss   11:31  0:00 /lib/systemd/systemd --user
## dibraerg  1729  0.0  0.4 104304   4204 ?     S    11:31  0:00 (sd-pam)
## dibraerg  1734  0.0  0.5   9320   5468 tty1  S    11:31  0:00 -bash
## root      4668  0.0  0.0      0      0 ?     I    11:40  0:00 [kworker/0:1-events]
## root      6508  0.0  0.0      0      0 ?     I    12:30  0:00 [kworker/u2:1-events_power_effici
## root      7073  0.0  0.0      0      0 ?     I    12:44  0:00 [kworker/u2:0-events_power_effici
## dibraerg  7522  0.1  1.0  22856  10828 tty1  S+   12:50  0:00 vim DIBRA_10-15-20_TP3.rmd
## dibraerg  7591  0.0  0.3   6892   3200 tty1  S+   12:51  0:00 /bin/bash -c echo "require(rmarkd
## dibraerg  7593 33.0  7.8 141480  78748 tty1  S+   12:51  0:00 /usr/lib/R/bin/exec/R --vanilla
## dibraerg  7611  0.0  0.0   2608    244 tty1  S+   12:51  0:00 sh -c 'bash'  -c 'ps -aux' 2>&1
## dibraerg  7612  0.0  0.3   9068   3672 tty1  R+   12:51  0:00 ps -aux
```