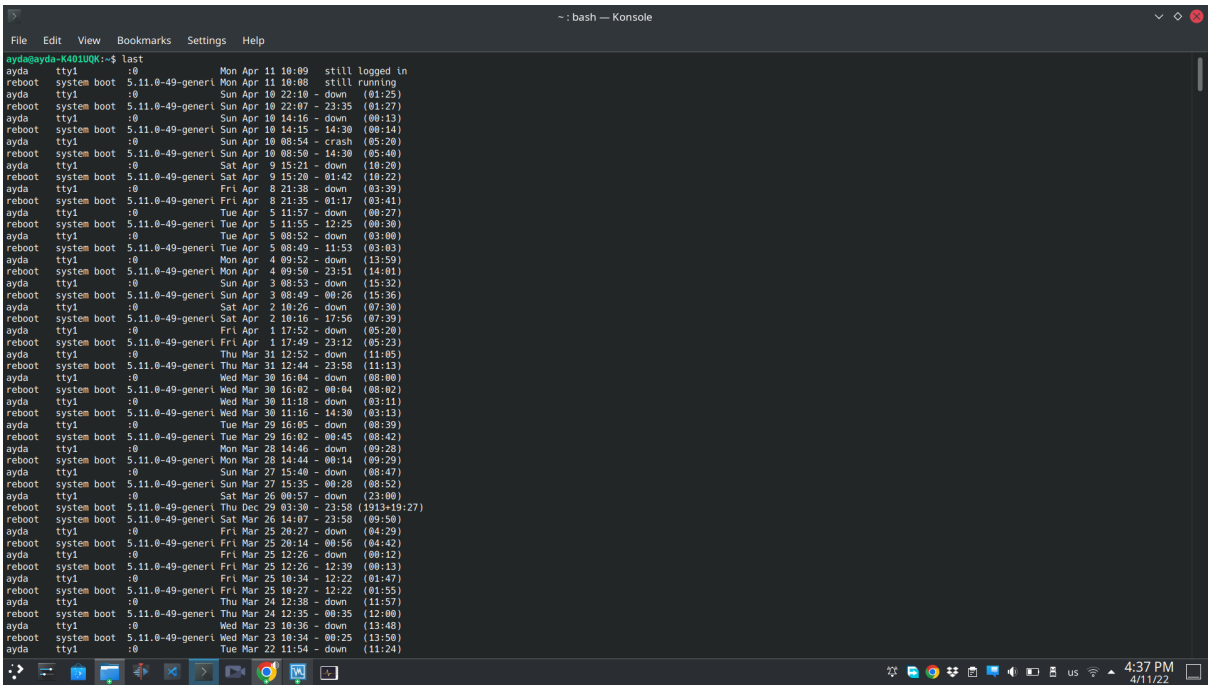
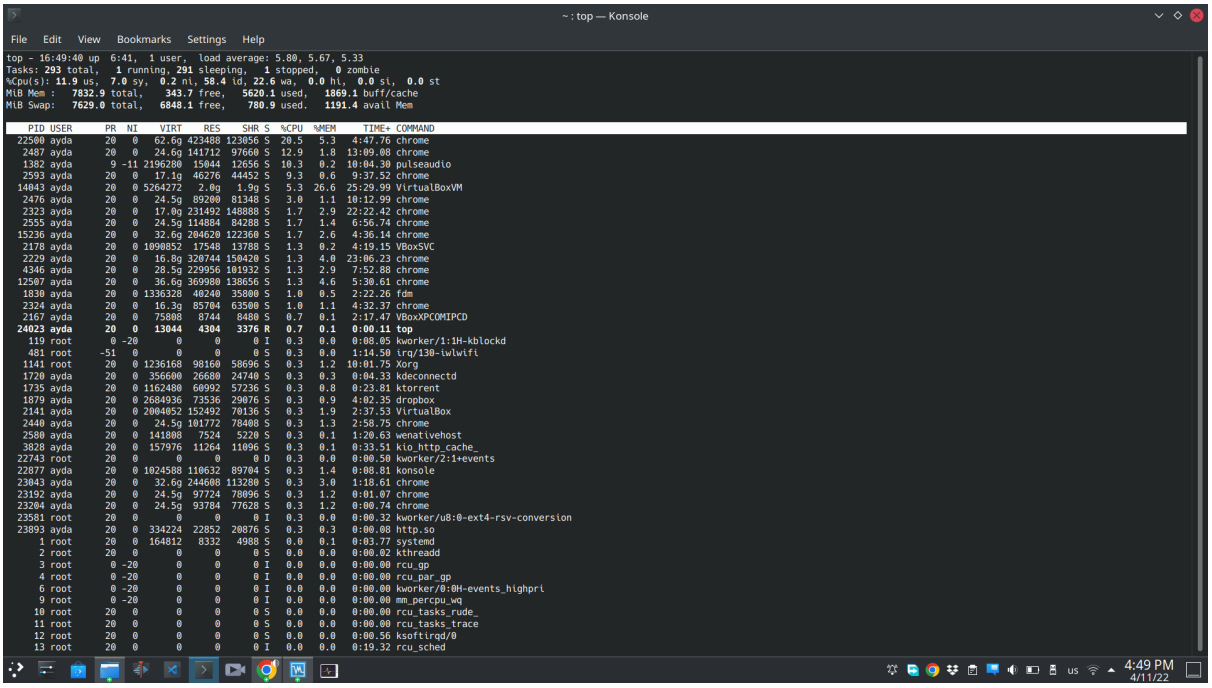
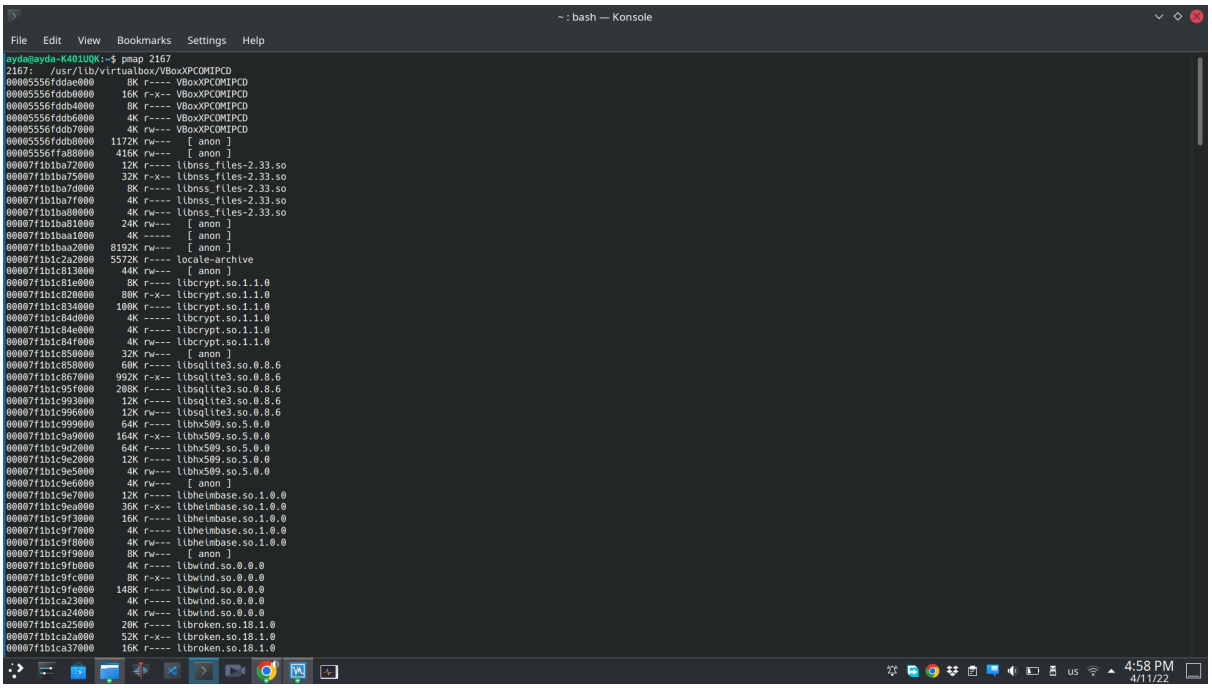
1.last


~ : bash — Konsole
File Edit View Bookmarks Settings Help
ayda@ayda-K401UQK:~$ last
ayda tty1 :0 Mon Apr 11 10:09 still logged in
reboot system boot 5.11.0-49-generi Mon Apr 11 10:08 still running
ayda tty1 :0 Sun Apr 10 22:10 - down (01:25)
reboot system boot 5.11.0-49-generi Sun Apr 10 22:07 - 23:35 (01:27)
ayda tty1 :0 Sun Apr 10 14:16 - down (00:13)
reboot system boot 5.11.0-49-generi Sun Apr 10 14:15 - 14:30 (00:14)
ayda tty1 :0 Sun Apr 10 08:54 - crash (05:20)
reboot system boot 5.11.0-49-generi Sun Apr 10 08:50 - 14:30 (05:40)
ayda tty1 :0 Sat Apr 9 15:21 - down (10:20)
reboot system boot 5.11.0-49-generi Sat Apr 9 15:20 - 01:42 (10:22)
ayda tty1 :0 Fri Apr 8 21:38 - down (03:39)
reboot system boot 5.11.0-49-generi Fri Apr 8 21:35 - 01:17 (03:41)
ayda tty1 :0 Tue Apr 5 11:57 - down (00:27)
reboot system boot 5.11.0-49-generi Tue Apr 5 11:55 - 12:25 (00:30)
ayda tty1 :0 Tue Apr 5 08:52 - down (03:00)
reboot system boot 5.11.0-49-generi Tue Apr 5 08:49 - 11:53 (03:03)
ayda tty1 :0 Mon Apr 4 09:52 - down (13:59)
reboot system boot 5.11.0-49-generi Mon Apr 4 09:50 - 23:51 (14:01)
ayda tty1 :0 Sun Apr 3 08:53 - down (15:32)
reboot system boot 5.11.0-49-generi Sun Apr 3 08:49 - 00:26 (15:36)
ayda tty1 :0 Sat Apr 2 10:26 - down (07:30)
reboot system boot 5.11.0-49-generi Sat Apr 2 10:16 - 17:56 (07:39)
ayda tty1 :0 Fri Apr 1 17:52 - down (05:20)
reboot system boot 5.11.0-49-generi Fri Apr 1 17:49 - 23:12 (05:23)
ayda tty1 :0 Thu Mar 31 12:52 - down (11:05)
reboot system boot 5.11.0-49-generi Thu Mar 31 12:44 - 23:58 (11:13)
ayda tty1 :0 Wed Mar 30 16:04 - down (08:00)
reboot system boot 5.11.0-49-generi Wed Mar 30 16:02 - 00:04 (08:02)
ayda tty1 :0 Wed Mar 30 11:18 - down (03:11)
reboot system boot 5.11.0-49-generi Wed Mar 30 11:16 - 14:30 (03:13)
ayda tty1 :0 Tue Mar 29 16:05 - down (08:39)
reboot system boot 5.11.0-49-generi Tue Mar 29 16:02 - 00:45 (08:42)
ayda tty1 :0 Mon Mar 28 14:46 - down (09:28)
reboot system boot 5.11.0-49-generi Mon Mar 28 14:44 - 00:14 (09:29)
ayda tty1 :0 Sun Mar 27 15:40 - down (08:47)
reboot system boot 5.11.0-49-generi Sun Mar 27 15:35 - 00:28 (08:52)
ayda tty1 :0 Sat Mar 26 00:57 - down (23:00)
reboot system boot 5.11.0-49-generi Thu Dec 29 03:30 - 23:58 (1913+19:27)
reboot system boot 5.11.0-49-generi Sat Mar 26 14:07 - 23:58 (09:50)
ayda tty1 :0 Fri Mar 25 20:27 - down (04:29)
reboot system boot 5.11.0-49-generi Fri Mar 25 20:14 - 00:56 (04:42)
ayda tty1 :0 Fri Mar 25 12:26 - down (00:12)
reboot system boot 5.11.0-49-generi Fri Mar 25 12:26 - 12:39 (00:13)
ayda tty1 :0 Fri Mar 25 10:34 - 12:22 (01:47)
reboot system boot 5.11.0-49-generi Fri Mar 25 10:27 - 12:22 (01:55)
ayda tty1 :0 Thu Mar 24 12:38 - down (11:57)
reboot system boot 5.11.0-49-generi Thu Mar 24 12:35 - 00:35 (12:00)
ayda tty1 :0 Wed Mar 23 10:36 - down (13:48)
reboot system boot 5.11.0-49-generi Wed Mar 23 10:34 - 00:25 (13:50)
ayda tty1 :0 Tue Mar 22 11:54 - down (11:24)
us
4:37 PM
4/11/22

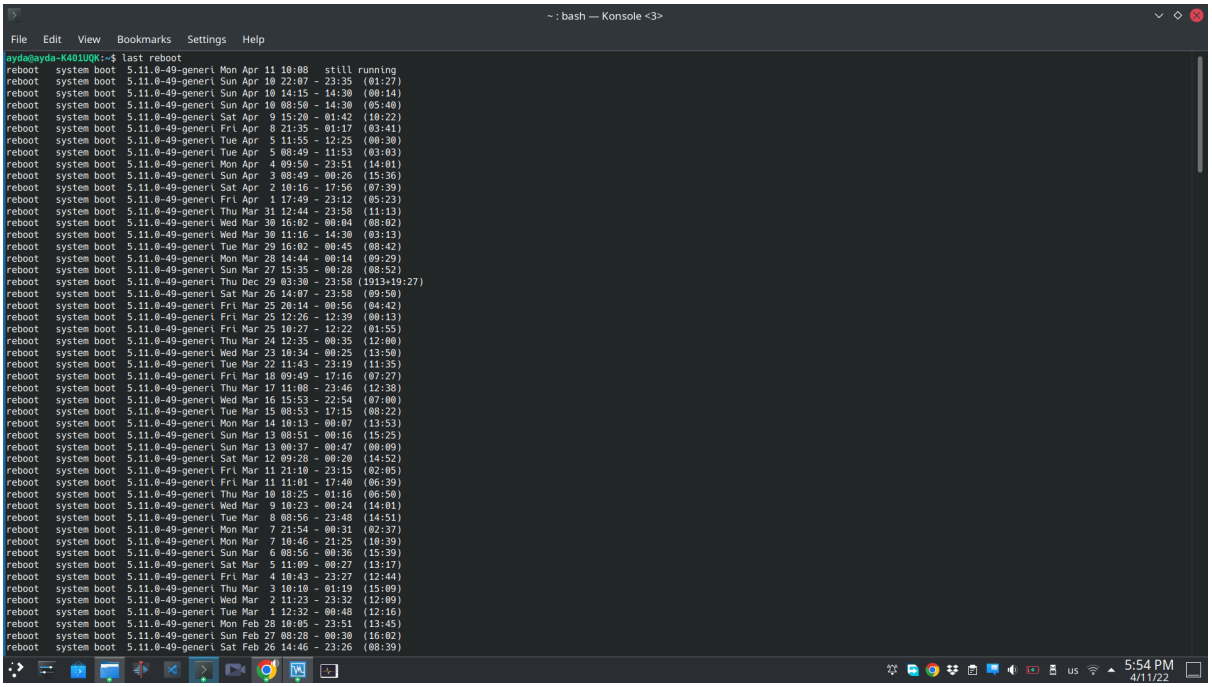
2.
top



pmap 24427



3.last reboot

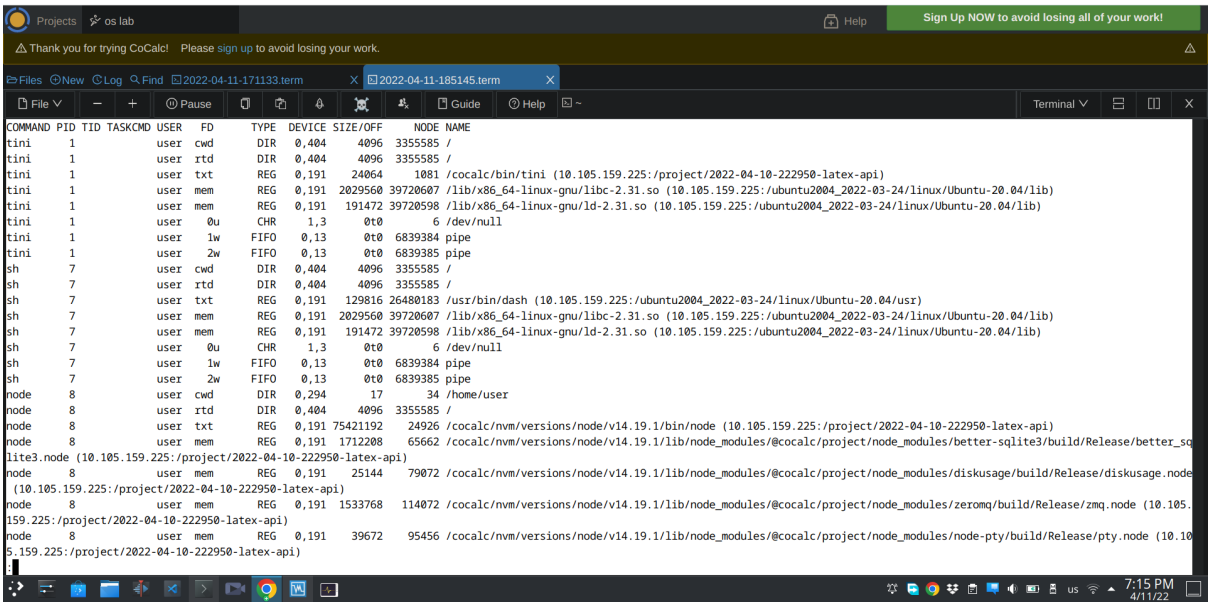


4.
nohup

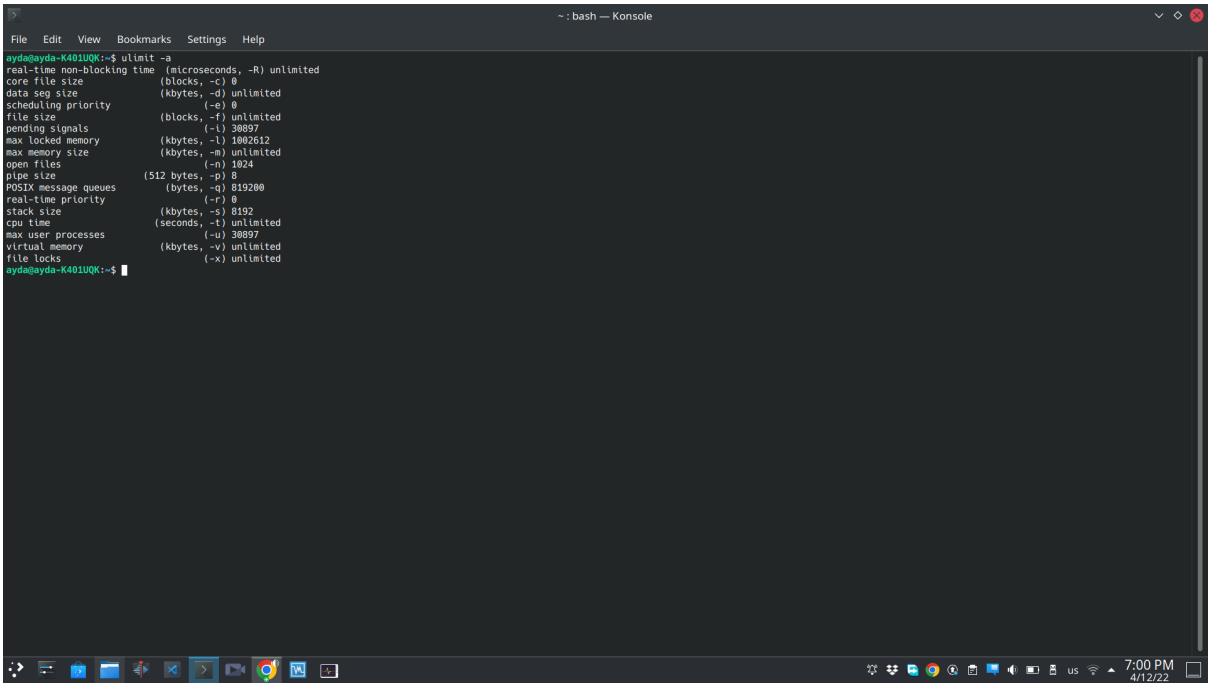
```
~$ nohup bgp.sh
nohup: ignoring input and appending output to 'nohup.out'
nohup: failed to run command 'bgp.sh': No such file or directory
~$ cat > nohup.out
back gorund process
~$ nohup bash bgp.sh
nohup: ignoring input and appending output to 'nohup.out'
~$ nohup bash bgp.sh &
[1] 444
~$ nohup: ignoring input and appending output to 'nohup.out'

[1]+  Exit 127                nohup bash bgp.sh
~$ jobs -l
~$ nohup bash bgp.sh &
[1] 472
~$ nohup: ignoring input and appending output to 'nohup.out'
jobs -l
[1]+   472 Exit 127                nohup bash bgp.sh
```

5.
lsof


Projects
os lab
Help
Sign Up NOW to avoid losing all of your work!
Thank you for trying CoCalc! Please sign up to avoid losing your work.
Files New Log Find 2022-04-11-171133.term
2022-04-11-185145.term
File
Pause
Guide
Help
Terminal
COMMAND PID TID TASKCMD USER FD TYPE DEVICE SIZE/OFF NODE NAME
tini 1 user cwd DIR 0,404 4096 3355585 /
tini 1 user rtd DIR 0,404 4096 3355585 /
tini 1 user txt REG 0,191 24064 1081 /cocalc/bin/tini (10.105.159.225:/project/2022-04-10-222950-latex-api)
tini 1 user mem REG 0,191 2029560 39720607 /lib/x86_64-linux-gnu/libc-2.31.so (10.105.159.225:/ubuntu2004_2022-03-24/linux/Ubuntu-20.04/lib)
tini 1 user mem REG 0,191 191472 39720598 /lib/x86_64-linux-gnu/ld-2.31.so (10.105.159.225:/ubuntu2004_2022-03-24/linux/Ubuntu-20.04/lib)
tini 1 user 0u CHR 1,3 0t0 6 /dev/null
tini 1 user 1w FIFO 0,13 0t0 6839384 pipe
tini 1 user 2w FIFO 0,13 0t0 6839385 pipe
sh 7 user cwd DIR 0,404 4096 3355585 /
sh 7 user rtd DIR 0,404 4096 3355585 /
sh 7 user txt REG 0,191 129816 26480183 /usr/bin/dash (10.105.159.225:/ubuntu2004_2022-03-24/linux/Ubuntu-20.04/usr)
sh 7 user mem REG 0,191 2029560 39720607 /lib/x86_64-linux-gnu/libc-2.31.so (10.105.159.225:/ubuntu2004_2022-03-24/linux/Ubuntu-20.04/lib)
sh 7 user mem REG 0,191 191472 39720598 /lib/x86_64-linux-gnu/ld-2.31.so (10.105.159.225:/ubuntu2004_2022-03-24/linux/Ubuntu-20.04/lib)
sh 7 user 0u CHR 1,3 0t0 6 /dev/null
sh 7 user 1w FIFO 0,13 0t0 6839384 pipe
sh 7 user 2w FIFO 0,13 0t0 6839385 pipe
node 8 user cwd DIR 0,294 17 34 /home/user
node 8 user rtd DIR 0,404 4096 3355585 /
node 8 user txt REG 0,191 75421192 24926 /cocalc/nvm/versions/node/v14.19.1/bin/node (10.105.159.225:/project/2022-04-10-222950-latex-api)
node 8 user mem REG 0,191 1712208 65662 /cocalc/nvm/versions/node/v14.19.1/lib/node_modules/@cocalc/project/node_modules/better-sqlite3/build/Release/better_sqlite3.node (10.105.159.225:/project/2022-04-10-222950-latex-api)
node 8 user mem REG 0,191 25144 79072 /cocalc/nvm/versions/node/v14.19.1/lib/node_modules/@cocalc/project/node_modules/diskusage/build/Release/diskusage.node (10.105.159.225:/project/2022-04-10-222950-latex-api)
node 8 user mem REG 0,191 1533768 114072 /cocalc/nvm/versions/node/v14.19.1/lib/node_modules/@cocalc/project/node_modules/zeromq/build/Release/zmq.node (10.105.159.225:/project/2022-04-10-222950-latex-api)
node 8 user mem REG 0,191 39672 95456 /cocalc/nvm/versions/node/v14.19.1/lib/node_modules/@cocalc/project/node_modules/node-pty/build/Release/pty.node (10.105.159.225:/project/2022-04-10-222950-latex-api)
:
7:15 PM
4/11/22

6.
View system resource amount:



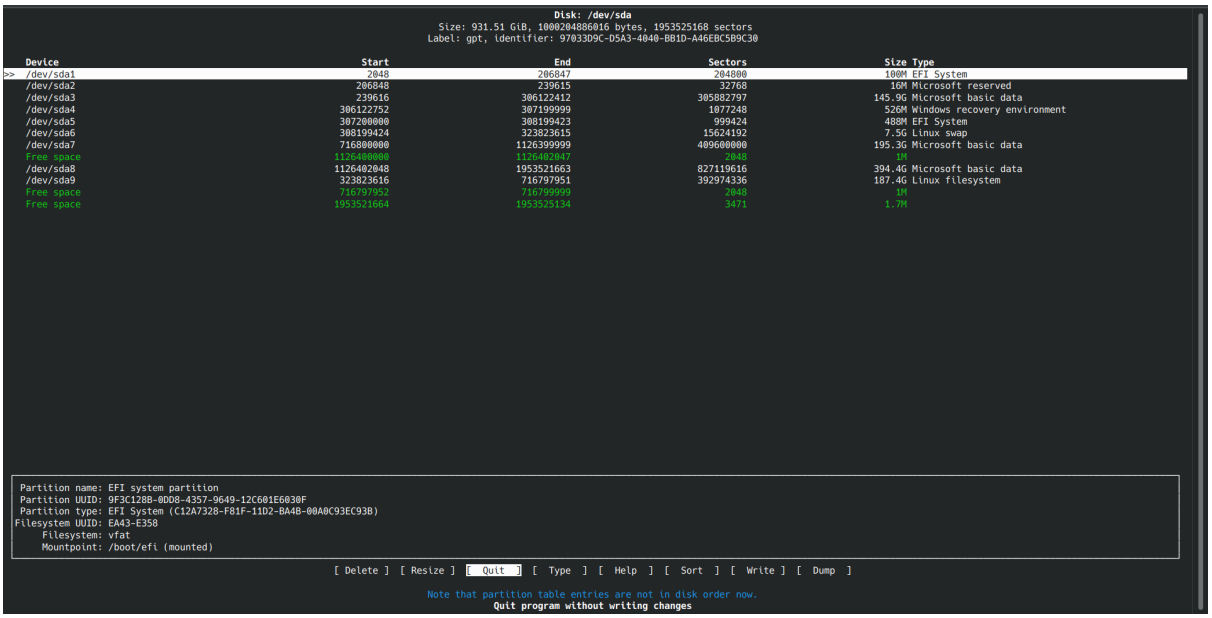
Limit system resource amount:

ulimit -f 10

```
~$ ulimit -a
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority             (-e) 0
file size               (blocks, -f) 50
pending signals                 (-i) 128071
max locked memory       (kbytes, -l) 64
max memory size         (kbytes, -m) unlimited
open files                      (-n) 10000
pipe size            (512 bytes, -p) 8
POSIX message queues     (bytes, -q) 819200
real-time priority              (-r) 0
stack size              (kbytes, -s) 8192
cpu time               (seconds, -t) unlimited
max user processes              (-u) unlimited
virtual memory          (kbytes, -v) unlimited
file locks                      (-x) unlimited
~$ ulimit -f 10
~$ ulimit -a
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority             (-e) 0
file size               (blocks, -f) 10
pending signals                 (-i) 128071
max locked memory       (kbytes, -l) 64
max memory size         (kbytes, -m) unlimited
open files                      (-n) 10000
pipe size            (512 bytes, -p) 8
POSIX message queues     (bytes, -q) 819200
```

7.

cfdisk



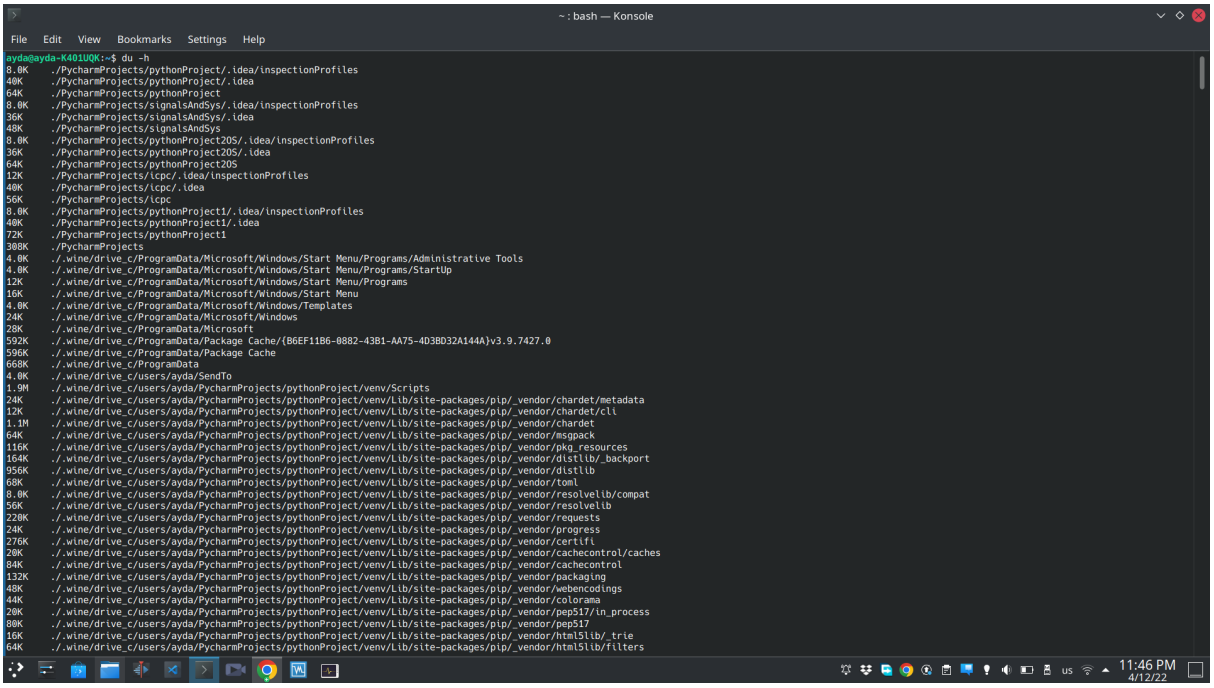
parted

8.

du

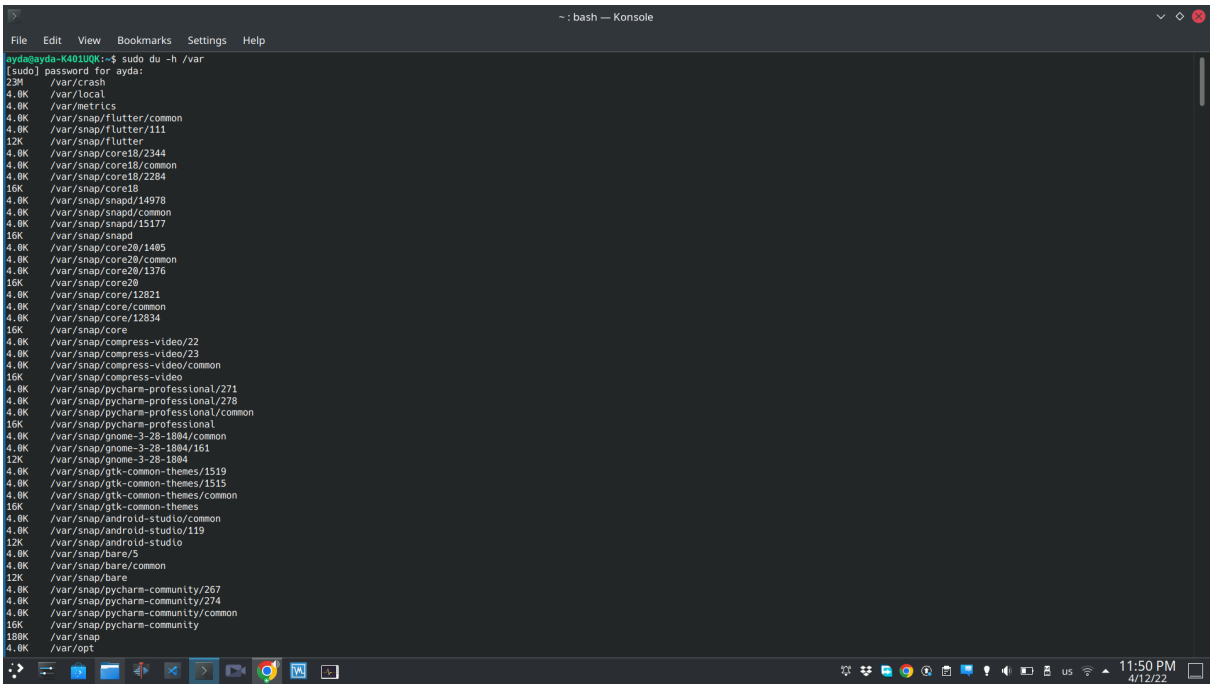
```
ayda@ayda-K401UQK:~$ du
8       ./PycharmProjects/pythonProject/.idea/inspectionProfiles
40      ./PycharmProjects/pythonProject/.idea
64      ./PycharmProjects/pythonProject
8       ./PycharmProjects/signalsAndSys/.idea/inspectionProfiles
36      ./PycharmProjects/signalsAndSys/.idea
48      ./PycharmProjects/signalsAndSys
8       ./PycharmProjects/pythonProject2OS/.idea/inspectionProfiles
36      ./PycharmProjects/pythonProject2OS/.idea
64      ./PycharmProjects/pythonProject2OS
12      ./PycharmProjects/icpc/.idea/inspectionProfiles
40      ./PycharmProjects/icpc/.idea
56      ./PycharmProjects/icpc
8       ./PycharmProjects/pythonProject1/.idea/inspectionProfiles
40      ./PycharmProjects/pythonProject1/.idea
72      ./PycharmProjects/pythonProject1
308     ./PycharmProjects
4       ./.wine/drive_c/ProgramData/Microsoft/Windows/Start Menu/Programs/Administrative Tools
4       ./.wine/drive_c/ProgramData/Microsoft/Windows/Start Menu/Programs/StartUp
12      ./.wine/drive_c/ProgramData/Microsoft/Windows/Start Menu/Programs
16      ./.wine/drive_c/ProgramData/Microsoft/Windows/Start Menu
4       ./.wine/drive_c/ProgramData/Microsoft/Windows/Templates
24      ./.wine/drive_c/ProgramData/Microsoft/Windows
28      ./.wine/drive_c/ProgramData/Microsoft
592     ./.wine/drive_c/ProgramData/Package Cache/{B6EF11B6-0882-43B1-AA75-4D3BD32A144A}v3.9.7427.0
596     ./.wine/drive_c/ProgramData/Package Cache
668     ./.wine/drive_c/ProgramData
4       ./.wine/drive_c/users/ayda/SendTo
1924    ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Scripts
24      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/chardet/metadata
12      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/chardet/cli
1116    ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/chardet
64      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/msgpack
116     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/pkg_resources
164     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/distlib/_backport
956     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/distlib
68      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/toml
8       ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/resolvelib/compat
56      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/resolvelib
220     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/requests
24      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/progress
276     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/certifi
20      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/cachecontrol/caches
84      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/cachecontrol
132     ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/packaging
48      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/webencodings
44      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/colorama
20      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/pep517/in_process
80      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/pep517
16      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/html5lib/_trie
64      ./.wine/drive_c/users/ayda/PycharmProjects/pythonProject/venv/Lib/site-packages/pip/_vendor/html5lib/filters
```

du -h

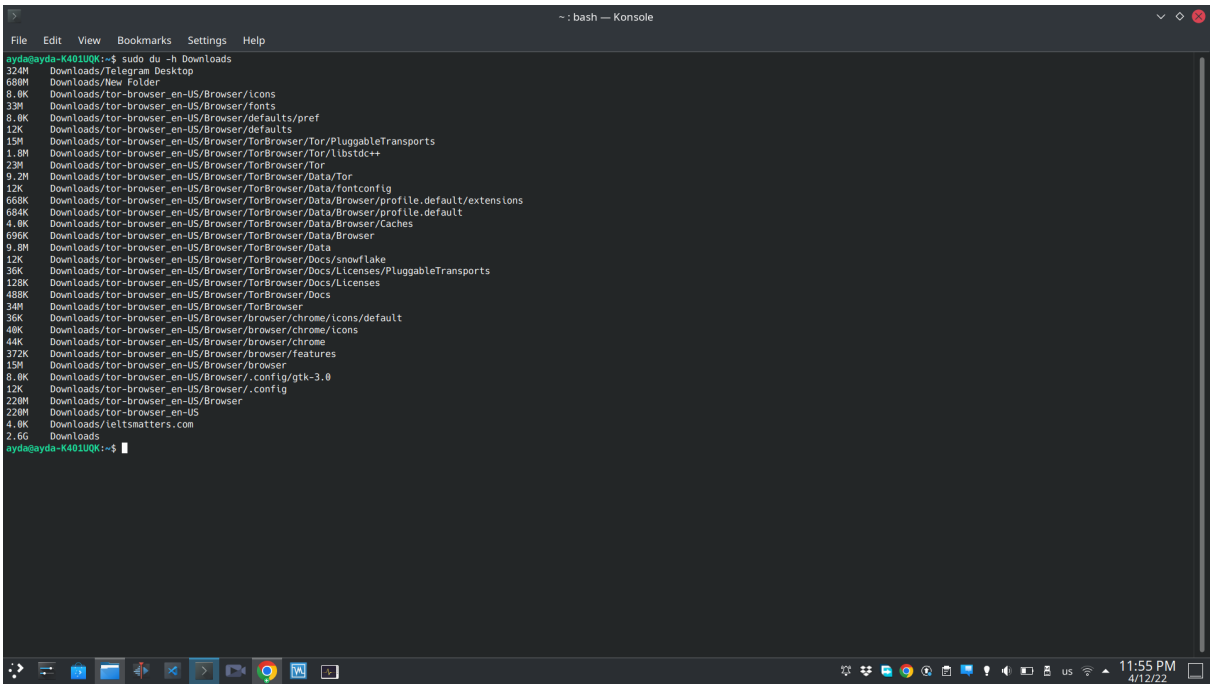


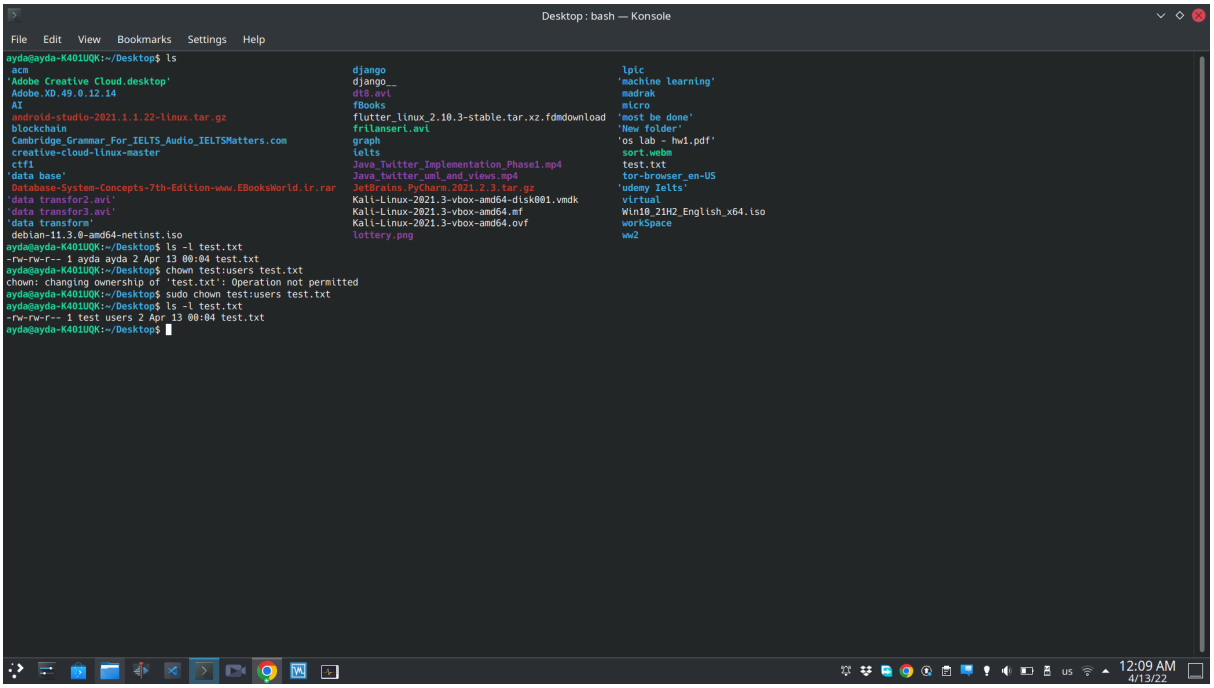
9.

sudo du -h /var



sudo du -h Downloads



10.

chown test:users test.txt