آزمایشگاه سیستم عامل

آزمایش اول

علیرضا ابره فروش

۹۸۱۶۶۰۳

گروه ۳

ctrl + alt + t

cd /

ls -l


```
alireza@alireza-VirtualBox:/$ ls -l
total 1190428
lrwxrwxrwx    1 root root          7 Oct 18  2021 bin -> usr/bin
drwxr-xr-x    4 root root       4096 Jan 16  2022 boot
drwxrwxr-x    2 root root       4096 Oct 18  2021 cdrom
drwxr-xr-x   20 root root       4280 Oct  4 14:31 dev
drwxr-xr-x  130 root root      12288 Jan 16  2022 etc
drwxr-xr-x    3 root root       4096 Oct 18  2021 home
lrwxrwxrwx    1 root root          7 Oct 18  2021 lib -> usr/lib
lrwxrwxrwx    1 root root          9 Oct 18  2021 lib32 -> usr/lib32
lrwxrwxrwx    1 root root          9 Oct 18  2021 lib64 -> usr/lib64
lrwxrwxrwx    1 root root         10 Oct 18  2021 libx32 -> usr/libx32
drwx------    2 root root      16384 Oct 18  2021 lost+found
drwxr-xr-x    3 root root       4096 Jan 16  2022 media
drwxr-xr-x    2 root root       4096 Aug 19  2021 mnt
drwxr-xr-x    3 root root       4096 Jan 16  2022 opt
dr-xr-xr-x  261 root root          0 Oct  4 14:23 proc
drwx------    4 root root       4096 Oct 18  2021 root
drwxr-xr-x   32 root root        900 Oct  4 14:37 run
lrwxrwxrwx    1 root root          8 Oct 18  2021 sbin -> usr/sbin
drwxr-xr-x   13 root root       4096 Jan 19  2022 snap
drwxr-xr-x    2 root root       4096 Aug 19  2021 srv
-rw-------    1 root root 1218913280 Oct 18  2021 swapfile
dr-xr-xr-x   13 root root          0 Oct  4 14:23 sys
drwxrwxrwt   20 root root       4096 Oct  4 14:44 tmp
drwxr-xr-x   14 root root       4096 Aug 19  2021 usr
drwxr-xr-x   14 root root       4096 Aug 19  2021 var
```

proc sys

cd ~

touch oslab1_3

ls -l

```
alireza@alireza-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 alireza alireza 4096 Jan 19  2022 Desktop
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Documents
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Downloads
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Music
-rw-rw-r-- 1 alireza alireza    0 Oct  4 15:04 oslab1_3
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Pictures
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Public
drwx------ 4 alireza alireza 4096 Jan 19  2022 snap
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Templates
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Videos
```

15:04

vim oslab1_3

i

Alireza

Abrehforoush

9816603

Esc

:wq

ls -l

```
alireza@alireza-VirtualBox:~$ ls -l
total 40
drwxr-xr-x 2 alireza alireza 4096 Jan 19  2022 Desktop
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Documents
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Downloads
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Music
-rw-rw-r-- 1 alireza alireza   29 Oct  4 15:31 oslab1_3
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Pictures
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Public
drwx------ 4 alireza alireza 4096 Jan 19  2022 snap
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Templates
drwxr-xr-x 2 alireza alireza 4096 Oct 18  2021 Videos
```

15:31

```
sudo cp oslab1_3 /root/
sudo su
cd /root/
chmod -w oslab1_3
```

۲. سوال

```
ifconfig
ping 172.27.74.177
ssh user_name@host(IP/Domain_name)
```

scp oslab1_3 yourusername@yourserver:/home/yourusername/

۳. سوال

top

```
  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
 1639 alireza   20   0 3780188 386428 135364 S   1.7   9.6   0:48.52 gnome-shell
 3919 alireza   20   0   20628   3832   3072 R   1.0   0.1   0:00.11 top
 1424 alireza   20   0  583940 100768  53892 S   0.7   2.5   0:13.77 Xorg
 3629 alireza   20   0  822820  51248  39120 S   0.7   1.3   0:02.93 gnome-terminal-
   84 root      20   0       0      0      0 I   0.3   0.0   0:02.73 kworker/0:2-events
 1561 alireza   20   0  163996   2732   2364 S   0.3   0.1   0:07.68 VBoxClient
 2044 alireza   20   0  353644  26912  20708 S   0.3   0.7   0:00.21 xdg-desktop-por
    1 root      20   0  167672  11548   8368 S   0.0   0.3   0:03.18 systemd
    2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
    3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
    4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
    5 root      20   0       0      0      0 I   0.0   0.0   0:01.04 kworker/0:0-cgroup_destroy
    6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
    9 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
   10 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
   11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
   12 root      20   0       0      0      0 S   0.0   0.0   0:00.40 ksoftirqd/0
   13 root      20   0       0      0      0 I   0.0   0.0   0:01.72 rcu_sched
   14 root      rt   0       0      0      0 S   0.0   0.0   0:00.06 migration/0
   15 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
   16 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
   17 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
   18 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
   19 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 inet_frag_wq
   20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kauditd
   21 root      20   0       0      0      0 S   0.0   0.0   0:00.00 khungtaskd
   22 root      20   0       0      0      0 S   0.0   0.0   0:00.00 oom_reaper
   23 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 writeback
   24 root      20   0       0      0      0 S   0.0   0.0   0:00.34 kcompactd0
   25 root      25   5       0      0      0 S   0.0   0.0   0:00.00 ksmd
```

gnome-shell, Xorg, gnome-terminal-
ps aux | grep -i migration

۴. سوال

```
sudo apt install linux-source
cd ../../usr/src/
sudo tar -xf linux-source-5.4.0.tar.bz2
find . -name syscall.tbl
sudo grep -I "write" syscall.tbl > ~/oslab1_3
```

۷تا مربوط به write است.

```
sudo grep -I "write" syscall.tbl > ~/oslab1_3 > 9816603_oslab1_q2
```