

Setting:

1.

I met few problems in the first step, and here is the only problem: when using the following command,

```
% ssh -X Your-CS-Username@testium.cs.uoregon.edu
```

the keyboard of the X11 can not work. I search on Google and then changed -X into -Y. After that, the keyboard works.

3.

The main problem I met in this step is to make users login to my VM without password by ssh. I have searched a lot, and found the solution: using chown command to give the user own privilege.

```
% sudo chown -R username:username /absolute directory
```

Also, I found the command below is useful when I want to redo the account creating process.

This command could remove the entire user directory.

```
% sudo deluser --remove-home username
```

Activities on Other Student's VM for this Assignment:

1.

Looking for the directory that I could place the 1M file inside is a boring work. I have tried many times, and finally I found the directory “/run/screen” that allows me to place the file.

3.

I found that I have written wrong script for last assignment which did not have a loop, thus I rewrite the script:

```
while [ 1 ];
do date + "%T";
sleep 60;
done
```

Also when I was trying run the script on Jasper's VM, the VM told me permission denied. Then I posted the discussion on canvas for this problem and Shaken answered me, which is to use chmod command:

```
chmod +x date.sh
```

After I changed the mod of .sh file, the script could run on Jasper's VM.

Activities on Your VM for this assignment:

1. The list of all user in /etc/passwd:

```
zahra:x:1012:1012:,:/home/zahra:/bin/bash
eric:x:1002:1002:,:/home/eric:/bin/bash
shikun:x:1004:1004:,:/home/shikun:/bin/bash
jasper:x:1003:1003:,:/home/jasper:/bin/bash
franklin:x:1013:1013:,:/home/franklin:/bin/bash
luke:x:1008:1008:,:/home/luke:/bin/bash
albert:x:1005:1005:,:/home/albert:/bin/bash
reza:x:1014:1014:,:/home/reza:/bin/bash
quinn:x:1006:1006:,:/home/quinn:/bin/bash
kyle:x:1007:1007:,:/home/kyle:/bin/bash
kevin:x:1009:1009:,:/home/kevin:/bin/bash
refael:x:1010:1010:,:/home/refael:/bin/bash
taylor:x:1011:1011:,:/home/taylor:/bin/bash
john:x:1015:1015:,:/home/john:/bin/bash
```

The list of last login for each user:

Username	Port	From	Latest
zahra	pts/2	10.0.2.2	Sat Feb 2 05:21:18 +0000 2019
Username	Port	From	Latest
erric	pts/0	10.0.2.2	Fri Feb 1 02:18:06 +0000 2019
Username	Port	From	Latest
john			**Never logged in**
Username	Port	From	Latest
jasper	pts/0	10.0.2.2	Fri Feb 1 08:52:43 +0000 2019
Username	Port	From	Latest
shikun	pts/2	10.0.2.2	Fri Feb 1 08:02:26 +0000 2019
Username	Port	From	Latest
albert	pts/3	10.0.2.2	Thu Jan 31 22:17:20 +0000 2019
Username	Port	From	Latest
taylor	pts/0	10.0.2.2	Fri Feb 1 03:44:28 +0000 2019
Username	Port	From	Latest
quinn			**Never logged in**
Username	Port	From	Latest
kyle	pts/0	10.0.2.2	Fri Feb 1 02:10:47 +0000 2019
Username	Port	From	Latest
kevin	pts/2	10.0.2.2	Fri Feb 1 07:04:23 +0000 2019
Username	Port	From	Latest
franklin	pts/0	10.0.2.2	Thu Jan 31 22:37:30 +0000 2019
Username	Port	From	Latest
refael	pts/0	10.0.2.2	Fri Feb 1 01:35:31 +0000 2019

2. The list of all users who are currently running a process:

```
[osboxes@osboxes:~$ who -q
osboxes osboxes
# users=2
osboxes@osboxes:~$ ]
```

3. The amount of disk space and available on file systems:

```
[osboxes@osboxes:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev              473968      0   473968   0% /dev
tmpfs             100912   2156   98756   3% /run
/dev/sda2        205375464 2690684 192182636  2% /
tmpfs             504556      0   504556   0% /dev/shm
tmpfs              5120      0    5120   0% /run/lock
tmpfs             504556      0   504556   0% /sys/fs/cgroup
/dev/loop0         93312   93312      0 100% /snap/core/6259
/dev/loop1         89088   89088      0 100% /snap/core/4917
/dev/sda3        5095040  230500  4586012   5% /boot
/dev/sda5        297230912  84732 281978028  1% /home
tmpfs             100908      0   100908   0% /run/user/1000
tmpfs             100908      0   100908   0% /run/user/1004
tmpfs             100908      0   100908   0% /run/user/1015
tmpfs             100908      0   100908   0% /run/user/1010
tmpfs             100908      0   100908   0% /run/user/1007
tmpfs             100908      0   100908   0% /run/user/1002
tmpfs             100908      0   100908   0% /run/user/1008
tmpfs             100908      0   100908   0% /run/user/1009
tmpfs             100908      0   100908   0% /run/user/1003
/dev/loop2         93184   93184      0 100% /snap/core/6350
```

The user disk space:

```
osboxes@osboxes:~$ sudo du /home
[sudo] password for osboxes:
4   /home/quinn/.gnupg/private-keys-v1.d
8   /home/quinn/.gnupg
8   /home/quinn/.ssh
4   /home/quinn/.cache
336  /home/quinn
4   /home/erric/.gnupg/private-keys-v1.d
8   /home/erric/.gnupg
8   /home/erric/.ssh
4   /home/erric/.cache
676  /home/erric
4   /home/osboxes/.gnupg/private-keys-v1.d
8   /home/osboxes/.gnupg
16  /home/osboxes/.ssh
4   /home/osboxes/.local/share/nano
8   /home/osboxes/.local/share
12   /home/osboxes/.local
8   /home/osboxes/.vim
4   /home/osboxes/.cache
96   /home/osboxes
4   /home/refael/.gnupg/private-keys-v1.d
8   /home/refael/.gnupg
8   /home/refael/.ssh
4   /home/refael/.cache
3796 /home/refael
8   /home/reza/.ssh
24   /home/reza
4   /home/jasper/.gnupg/private-keys-v1.d
8   /home/jasper/.gnupg
8   /home/jasper/.ssh
4   /home/jasper/.cache
840   /home/jasper
4   /home/shikun/.gnupg/private-keys-v1.d
8   /home/shikun/.gnupg
8   /home/shikun/.ssh
4   /home/shikun/.local/share/nano
8   /home/shikun/.local/share
12   /home/shikun/.local
4   /home/shikun/.cache
1548 /home/shikun
4   /home/luke/.gnupg/private-keys-v1.d
8   /home/luke/.gnupg
8   /home/luke/.ssh
4   /home/luke/.cache
420   /home/luke
4   /home/albert/.gnupg/private-keys-v1.d
8   /home/albert/.gnupg
8   /home/albert/.ssh
4   /home/albert/.cache
836   /home/albert
16   /home/lost+found
4   /home/john/.gnupg/private-keys-v1.d
8   /home/john/.gnupg
8   /home/john/.ssh
4   /home/john/.cache
3868 /home/john
4   /home/kevin/.gnupg/private-keys-v1.d
8   /home/kevin/.gnupg
8   /home/kevin/.ssh
4   /home/kevin/.cache
```

```

716 /home/kevin
4 /home/franklin/.gnupg/private-keys-v1.d
8 /home/franklin/.gnupg
8 /home/franklin/.ssh
4 /home/franklin/.cache
1564 /home/franklin
4 /home/taylor/.gnupg/private-keys-v1.d
984 /home/taylor/.gnupg
8 /home/taylor/.ssh
4 /home/taylor/.cache
1796 /home/taylor
4 /home/qianyi/.gnupg/private-keys-v1.d
8 /home/qianyi/.gnupg
8 /home/qianyi/.ssh
4 /home/qianyi/.cache
40 /home/qianyi
4 /home/kyle/.gnupg/private-keys-v1.d
8 /home/kyle/.gnupg
8 /home/kyle/.ssh
4 /home/kyle/.cache
788 /home/kyle
4 /home/zahra/.gnupg/private-keys-v1.d
8 /home/zahra/.gnupg
8 /home/zahra/.ssh
4 /home/zahra/.cache
832 /home/zahra
19236/home

```

4. Report the number of open files on your VM (using `lsof` command):

```
[osboxes@osboxes:~$ lsof | wc -l
```

720

```
osboxes@osboxes:~$
```

UID	PID	PPID	C	STIME	TTY	TIME	CMD
root	1	0	0	Jan30	?	00:00:04	/sbin/init maybe-ubiquity
root	2	0	0	Jan30	?	00:00:00	[kthreadd]
root	4	2	0	Jan30	?	00:00:00	[kworker/0:0H]
root	6	2	0	Jan30	?	00:00:00	[mm_percpu_wq]
root	7	2	0	Jan30	?	00:00:08	[ksoftirqd/0]
root	8	2	0	Jan30	?	00:00:14	[rcu_sched]
root	9	2	0	Jan30	?	00:00:00	[rcu_bh]
root	10	2	0	Jan30	?	00:00:00	[migration/0]
root	11	2	0	Jan30	?	00:00:01	[watchdog/0]
root	12	2	0	Jan30	?	00:00:00	[cpuhp/0]
root	13	2	0	Jan30	?	00:00:00	[kdevtmpfs]
root	14	2	0	Jan30	?	00:00:00	[netns]
root	15	2	0	Jan30	?	00:00:00	[rcu_tasks_kthre]
root	16	2	0	Jan30	?	00:00:00	[kaudit]
root	17	2	0	Jan30	?	00:00:00	[khungtaskd]
root	18	2	0	Jan30	?	00:00:00	[oom_reaper]
root	19	2	0	Jan30	?	00:00:00	[writeback]
root	20	2	0	Jan30	?	00:00:00	[kcompactd0]
root	21	2	0	Jan30	?	00:00:00	[ksmd]
root	22	2	0	Jan30	?	00:00:00	[khugepaged]
root	23	2	0	Jan30	?	00:00:00	[crypto]
root	24	2	0	Jan30	?	00:00:00	[kintegrityd]
root	25	2	0	Jan30	?	00:00:00	[kblockd]
root	26	2	0	Jan30	?	00:00:00	[ata_sff]
root	27	2	0	Jan30	?	00:00:00	[md]
root	28	2	0	Jan30	?	00:00:00	[edac-poller]
root	29	2	0	Jan30	?	00:00:00	[devfreq_wq]
root	30	2	0	Jan30	?	00:00:00	[watchdogd]
root	34	2	0	Jan30	?	00:00:00	[kswapd0]
root	35	2	0	Jan30	?	00:00:00	[ecryptfs-kthrea]
root	77	2	0	Jan30	?	00:00:00	[kthrotld]
root	78	2	0	Jan30	?	00:00:00	[acpi_thermal_pm]
root	79	2	0	Jan30	?	00:00:00	[scsi_eh_0]
root	80	2	0	Jan30	?	00:00:00	[scsi_tmf_0]
root	81	2	0	Jan30	?	00:00:00	[scsi_eh_1]
root	82	2	0	Jan30	?	00:00:00	[scsi_tmf_1]
root	88	2	0	Jan30	?	00:00:00	[ipv6_addrconf]
root	97	2	0	Jan30	?	00:00:00	[kstrp]
root	114	2	0	Jan30	?	00:00:00	[charger_manager]
root	176	2	0	Jan30	?	00:00:06	[kworker/0:1H]
root	191	2	0	Jan30	?	00:00:00	[scsi_eh_2]
root	192	2	0	Jan30	?	00:00:00	[scsi_tmf_2]
root	264	2	0	Jan30	?	00:00:00	[raid5wq]
root	324	2	0	Jan30	?	00:00:00	[jbd2/sda2-8]
root	325	2	0	Jan30	?	00:00:00	[ext4-rsv-conver]
root	383	1	0	Jan30	?	00:00:02	/lib/systemd/systemd-journald
root	398	2	0	Jan30	?	00:00:00	[iscsi_eh]

5. Report the list of all the user running processes (using `ps` or `w` commands)

```

root      399    2  0 Jan30 ?      00:00:00 [ib-comp-wq]
root      400    2  0 Jan30 ?      00:00:00 [ib_mcast]
root      401    2  0 Jan30 ?      00:00:00 [ib_nl_sa_wq]
root      402    2  0 Jan30 ?      00:00:00 [rdma_cm]
root      413    1  0 Jan30 ?      00:00:01 /lib/systemd/systemd-udevd
root      417    1  0 Jan30 ?      00:00:00 /sbin/lvmetad -f
root      434    2  0 Jan30 ?      00:00:00 [loop0]
root      435    2  0 Jan30 ?      00:00:00 [loop1]
root      437    2  0 Jan30 ?      00:00:00 [iprt-VBoxWQueue]
root      442    2  0 Jan30 ?      00:00:00 [ttm_swap]
root      587    2  0 Jan30 ?      00:00:00 [jbd2/sda3-8]
root      588    2  0 Jan30 ?      00:00:00 [ext4-rsv-conver]
root      591    2  0 Jan30 ?      00:00:05 [jbd2/sda5-8]
root      592    2  0 Jan30 ?      00:00:00 [ext4-rsv-conver]
systemd+ 667    1  0 Jan30 ?      00:00:00 /lib/systemd/systemd-timesyncd
systemd+ 806    1  0 Jan30 ?      00:00:00 /lib/systemd/systemd-networkd
systemd+ 850    1  0 Jan30 ?      00:00:00 /lib/systemd/systemd-resolved
root      933    1  0 Jan30 ?      00:00:00 /lib/systemd/systemd-logind
root      936    1  0 Jan30 ?      00:00:06 /usr/lib/accountsservice/accounts-daemon
syslog    957    1  0 Jan30 ?      00:00:00 /usr/sbin/rsyslogd -n
message+ 958    1  0 Jan30 ?      00:00:01 /usr/bin/dbus-daemon --system --address=systemd: --nofork --r
root      1019   1  0 Jan30 ?      00:00:00 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-1
daemon    1020   1  0 Jan30 ?      00:00:00 /usr/sbin/atd -f
root      1023   1  0 Jan30 ?      00:00:00 /usr/bin/lxcfs /var/lib/lxcfs/
root      1052   1  0 Jan30 ?      00:00:00 /usr/sbin/cron -f
root      1087   1  0 Jan30 ?      00:00:06 /sbin/iscsid
root      1088   1  0 Jan30 ?      00:00:00 /sbin/iscsid
root      1099   1  0 Jan30 ?      00:00:00 /usr/lib/policykit-1/polkitd --no-debug
root      1138   1  0 Jan30 tty1   00:00:00 /sbin/agetty -o -p -- \u000a --noclear tty1 linux
root      1205   1  0 Jan30 ?      00:00:00 /usr/sbin/sshd -D
kyle      2274   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
kyle      2275   2274 0 Feb01 ?     00:00:00 (sd-pam)
kyle      2386   1  0 Feb01 ?      00:00:00 /bin/bash ./kyle_date_loop.sh
root      2471   1285 0 06:05 ?      00:00:00 sshd: osboxes [priv]
osboxes  2562   2471 0 06:05 ?      00:00:00 sshd: osboxes@pts/0
osboxes  2563   2562 0 06:05 pts/0 00:00:00 -bash
erric     3890   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
erric     3891   3890 0 Feb01 ?     00:00:00 (sd-pam)
erric     4163   1  0 Feb01 ?      00:01:13 /bin/bash ./date.sh
luke      4253   18301 0 07:52 ?     00:00:00 sleep 30
john     4370   11124 0 07:52 ?     00:00:00 sleep 1
erric     4372   4163 0 07:52 ?     00:00:00 sleep 1
refael    4373   28258 0 07:52 ?     00:00:00 sleep 1
osboxes  4374   2563 0 07:52 pts/0 00:00:00 ps -ef
root      5330   2  0 Feb01 ?      00:00:25 [kworker/0:1]
root      5647   1205 0 Jan31 ?      00:00:00 sshd: osboxes [priv]
osboxes  5649   1  0 Jan31 ?      00:00:00 /lib/systemd/systemd --user
osboxes  5650   5649 0 Jan31 ?     00:00:00 (sd-pam)
osboxes  5724   5647 0 Jan31 ?     00:00:00 sshd: osboxes@pts/1
osboxes  5725   5724 0 Jan31 pts/1 00:00:00 -bash
jasper    6285   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
jasper    6286   6285 0 Feb01 ?     00:00:00 (sd-pam)
jasper    6480   1  0 Feb01 ?      00:00:00 bash time_loop.sh
root      7747   2  0 06:21 ?      00:00:00 [kworker/0:0]

```

```

root      9155   2  0 Feb01 ?      00:00:00 [loop2]
root      9201   1  0 Feb01 ?      00:00:04 /usr/lib/snapd/snapd
shikun    9893   1  0 Jan31 ?      00:00:00 /lib/systemd/systemd --user
shikun    9894   9893 0 Jan31 ?     00:00:00 (sd-pam)
shikun    10309  1  0 Jan31 ?      00:00:00 /bin/sh ./date.sh
john     11030   1  0 Jan31 ?      00:00:00 /lib/systemd/systemd --user
john     11031  11030 0 Jan31 ?     00:00:00 (sd-pam)
john     11124   1  0 Jan31 ?      00:01:42 /bin/bash ./date-script-john
kevin    11985  18804 0 04:50 ?     00:00:00 sleep 1d
kevin    15174   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
kevin    15175  15174 0 Feb01 ?     00:00:00 (sd-pam)
luke     18204   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
luke     18205  18204 0 Feb01 ?     00:00:00 (sd-pam)
luke     18301   1  0 Feb01 ?      00:00:01 bash -c while true; do echo 31337; sleep 30; done &
shikun    18751  10309 0 06:52 ?     00:00:00 sleep 60m
kevin    18804   1  0 Feb01 ?      00:00:00 /bin/bash ./script.sh
jasper    18880  6480 0 06:53 ?     00:00:00 sleep 1h
kyle     24253  2386 0 07:10 ?     00:00:00 sleep 3600
root     27324   2  0 07:21 ?      00:00:00 [kworker/u2:1]
refael   28019   1  0 Feb01 ?      00:00:00 /lib/systemd/systemd --user
refael   28020  28019 0 Feb01 ?     00:00:00 (sd-pam)
refael   28258   1  0 Feb01 ?      00:00:56 /bin/bash ./date
root     31048   2  0 07:33 ?      00:00:00 [kworker/u2:2]

```

6.

```
osboxes@osboxes:~$ ps -u root
 PID TTY      TIME CMD
  1 ?        00:00:04 systemd
  2 ?        00:00:00 kthreadd
  4 ?        00:00:00 kworker/0:0H
  6 ?        00:00:00 mm_percpu_wq
  7 ?        00:00:08 ksoftirqd/0
  8 ?        00:00:14 rcu_sched
  9 ?        00:00:00 rcu_bh
 10 ?        00:00:00 migration/0
 11 ?        00:00:01 watchdog/0
 12 ?        00:00:00 cpuhp/0
 13 ?        00:00:00 kdevtmpfs
 14 ?        00:00:00 netns
 15 ?        00:00:00 rcu_tasks_kthre
 16 ?        00:00:00 kauditd
 17 ?        00:00:00 khungtaskd
 18 ?        00:00:00 oom_reaper
 19 ?        00:00:00 writeback
 20 ?        00:00:00 kcompactd0
 21 ?        00:00:00 ksmd
 22 ?        00:00:00 khugepaged
 23 ?        00:00:00 crypto
 24 ?        00:00:00 integrityd
 25 ?        00:00:00 kblockd
 26 ?        00:00:00 ata_sff
 27 ?        00:00:00 md
 28 ?        00:00:00 edac-poller
 29 ?        00:00:00 devfreq_wq
 30 ?        00:00:00 watchdogd
 34 ?        00:00:00 kswapd0
 35 ?        00:00:00 cryptofs-kthrea
 77 ?        00:00:00 kthrotld
 78 ?        00:00:00 acpi_thermal_pm
 79 ?        00:00:00 scsi_eh_0
 80 ?        00:00:00 scsi_tmf_0
 81 ?        00:00:00 scsi_eh_1
 82 ?        00:00:00 scsi_tmf_1
 88 ?        00:00:00 ipv6_addrconf
 97 ?        00:00:00 kstrt
114 ?        00:00:00 charger_manager
176 ?        00:00:06 kworker/0:1H
191 ?        00:00:00 scsi_eh_2
192 ?        00:00:00 scsi_tmf_2
264 ?        00:00:00 rrid5wq
324 ?        00:00:00 jbd2/sda2-8
325 ?        00:00:00 ext4-rsv-conver
383 ?        00:00:02 systemd-journal
398 ?        00:00:00 iscsi_eh
399 ?        00:00:00 ib-comp-wq
400 ?        00:00:00 ib_mcast
401 ?        00:00:00 ib_nl_sa_wq
402 ?        00:00:00 rdma_cm
413 ?        00:00:01 systemd-udevd
417 ?        00:00:00 lvmtd
434 ?        00:00:00 loop0
435 ?        00:00:00 loop1
437 ?        00:00:00 iprt-VBoxWQueue
442 ?        00:00:00 ttm_swap
587 ?        00:00:00 jbd2/sda3-8
588 ?        00:00:00 ext4-rsv-conver
591 ?        00:00:05 jbd2/sda5-8
592 ?        00:00:00 ext4-rsv-conver
933 ?        00:00:00 systemd-logind
936 ?        00:00:06 accounts-daemon
1019 ?        00:00:00 networkd-dispat
1023 ?        00:00:00 lxcfs
1052 ?        00:00:00 cron
1087 ?        00:00:06 iscsid
1088 ?        00:00:00 iscsid
1099 ?        00:00:00 polkitd
1138 tty1    00:00:00 getty
1205 ?        00:00:00 sshd
2471 ?        00:00:00 sshd
5025 ?        00:00:00 kworker/u2:0
5330 ?        00:00:25 kworker/0:1
5647 ?        00:00:00 sshd
7747 ?        00:00:00 kworker/0:0
9155 ?        00:00:00 loop2
9201 ?        00:00:04 snapd
27324 ?       00:00:00 kworker/u2:1
31048 ?       00:00:00 kworker/u2:2
osboxes@osboxes:~$
```

7.

```
[osboxes@osboxes:~$ ps -eo comm,etime,use:  
COMMAND ELAPSED USER  
systemd 3-00:23:42 root  
kthreadd 3-00:23:42 root  
kworker/0:0H 3-00:23:42 root  
mm_percpu_wq 3-00:23:42 root  
ksoftirqd/0 3-00:23:42 root  
^ ^ ^ ^ ^
```

8.

```
osboxes@osboxes:~$ grep "Failed" /var/log/auth.log  
Jan 29 23:25:48 osboxes sshd[18819]: Failed password for osboxes from 10.0.2.2 port 52137 ssh2  
Jan 29 23:25:56 osboxes sshd[18819]: Failed password for osboxes from 10.0.2.2 port 52137 ssh2  
Jan 29 23:28:24 osboxes sshd[32348]: Failed password for osboxes from 10.0.2.2 port 52144 ssh2  
Jan 29 23:30:30 osboxes sshd[5242]: Failed password for osboxes from 10.0.2.2 port 52158 ssh2  
Jan 29 23:30:31 osboxes sshd[5242]: message repeated 2 times: [ Failed password for osboxes from 10.0.2.2 port 52158 ssh2]  
Binary file /var/log/auth.log matches
```

9.

```
[osboxes@osboxes:~$ last | head -4  
osboxes pts/0 10.0.2.2 Sat Feb 2 06:05 still logged in  
zahra pts/2 10.0.2.2 Sat Feb 2 05:21 - 05:21 (00:00)  
osboxes pts/0 10.0.2.2 Sat Feb 2 01:30 - 06:04 (04:33)  
jasper pts/0 10.0.2.2 Fri Feb 1 08:52 - 08:53 (00:00)
```

10.

```
[osboxes@osboxes:/ $ find / -type f -size +500k ! -user root -ls  
find: '/sys/kernel/debug': Permission denied  
find: '/sys/fs/pstore': Permission denied  
find: '/sys/fs/fuse/connections/48': Permission denied  
find: '/tmp/systemd-private-67f9289db743459b83cbe02e1d8ab0d9-systemd-timesyncd.service-IhGT4o': Permission denied  
2883598 992 -rw-rw-r-- 1 shikun shikun 1013760 Jan 31 22:49 /tmp/1MB.out  
2883600 900 -rw-r--r-- 1 kyle kyle 921600 Jan 31 22:54 /tmp/kyle4.txt  
2883605 980 -rw-rw-r-- 1 jasper jasper 1000000 Feb 1 08:34 /tmp/jasper-1mb  
2883595 660 -rw-rw-r-- 1 erric erric 675000 Jan 31 22:19 /tmp/1mborless.txt  
2883603 1024 -rw-rw-r-- 1 luke luke 1048500 Feb 1 02:19 /tmp/.secretspot/xl  
2883597 984 -rw-r--r-- 1 albert albert 1006000 Jan 31 22:13 /tmp/1mb  
2883604 888 -rw-rw-r-- 1 kevin kevin 906240 Feb 1 04:44 /tmp/file4.txt  
2883599 1024 -rw-rw-r-- 1 refael refael 1048576 Jan 31 22:51 /tmp/1MB-file  
2883601 1024 -rw-rw-r-- 1 quinn quinn 1048576 Jan 31 23:08 /tmp/1MG-file  
2883596 972 -rw-rw-r-- 1 john john 993280 Jan 31 22:44 /tmp/john-file4  
find: '/tmp/systemd-private-67f9289db743459b83cbe02e1d8ab0d9-systemd-resolved.service-yiigI3': Permission denied
```

11.

```
[osboxes@osboxes:/ $ find / -mtime -1 -ls | head -5  
S 3540920 20 drwxr-xr-x 499 root root 20480 Feb 2 06:22 /usr/share/doc  
J 3407881 4 drwxr-xr-x 6 root root 4096 Feb 2 06:22 /usr/src  
E 294 0 -r--r--r-- 1 root root 468 Feb 2 08:37 /sys/kernel/notes  
494 0 drwxr-xr-x 7 root root 0 Feb 2 08:37 /sys/kernel/mm  
2078 0 drwxr-xr-x 2 root root 0 Feb 2 08:37 /sys/kernel/mm/page_idle  
osboxes@osboxes:/ $
```

