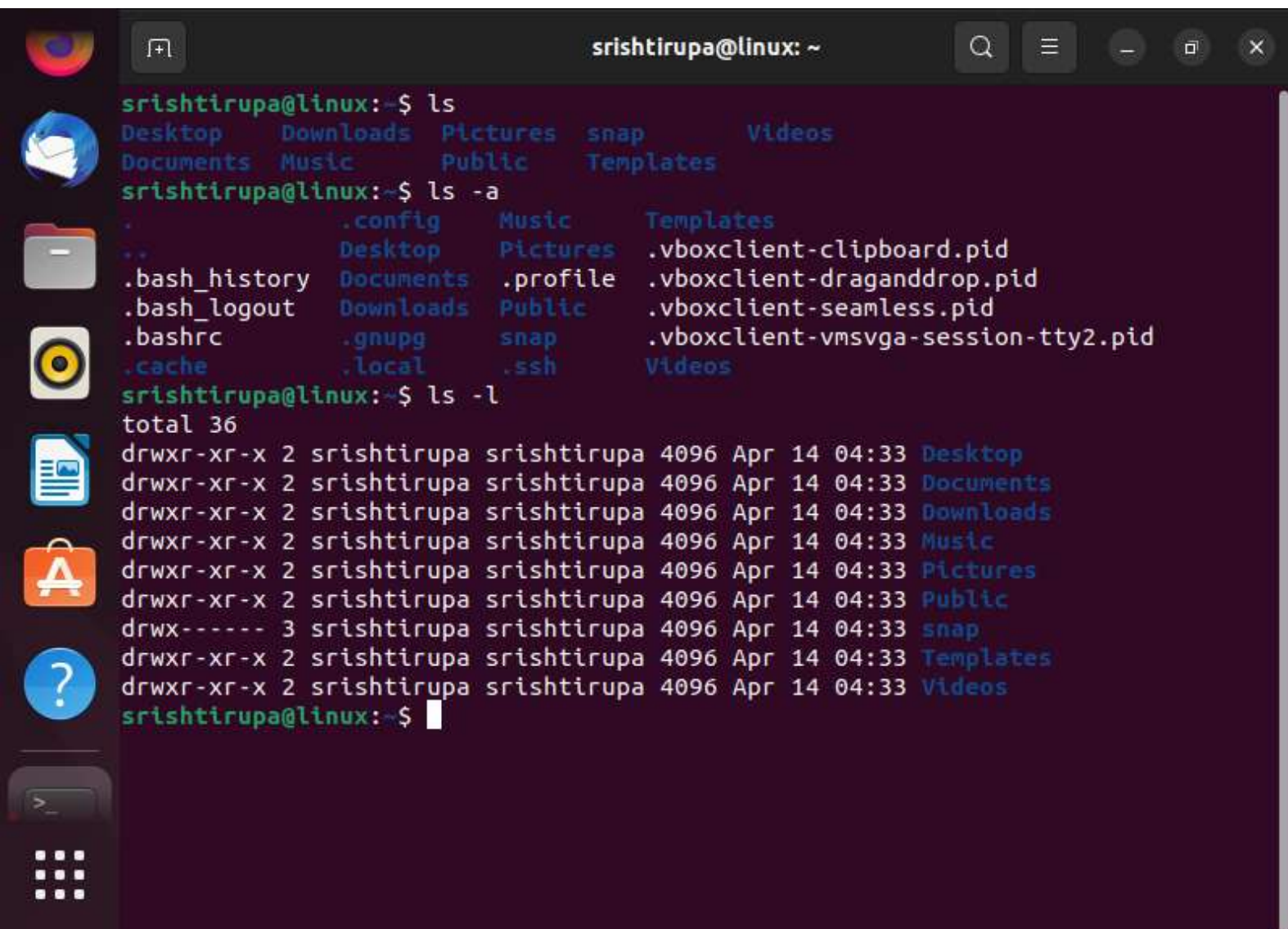```
      Architecture: x86-64
 Hardware Vendor: innotek GmbH
  Hardware Model: VirtualBox
srishtirupa@linux:~$ ls
Desktop   Downloads Music   Public   snap   Test1 test3
Documents FirstDir   Pictures secondDir,hello Templates test2 Videos
srishtirupa@linux:~$ cd FirstDir
srishtirupa@linux:~/FirstDir$ cd..
cd..: command not found
srishtirupa@linux:~/FirstDir$ cd ..
srishtirupa@linux:~$ cp Test1 /FirstDir
cp: cannot create regular file '/FirstDir': Permission denied
srishtirupa@linux:~$ cp Test1 demo1
srishtirupa@linux:~$ ls
demo1   Documents FirstDir Pictures secondDir,hello Templates test2 Videos
Desktop   Downloads Music   Public   snap   Test1   test3
srishtirupa@linux:~$ echo "hey.."
hey..
srishtirupa@linux:~$ cat Test1
srishtirupa@linux:~$ cat test2
Hello,Welcome to infobell
srishtirupa@linux:~$ cat test2 | grep infobell
Hello,Welcome to infobell
srishtirupa@linux:~$ rm Test1
srishtirupa@linux:~$ em -rvf FirstDir
em: command not found
srishtirupa@linux:~$ rm -rvf FirstDir
removed directory 'FirstDir'
srishtirupa@linux:~$ mv test2 igTest
srishtirupa@linux:~$ ls
demo1 Desktop Documents Downloads igTest Music Pictures Public secondDir,hello snap Templates test3 Videos
srishtirupa@linux:~$ cat BigData
cat: BigData: No such file or directory
srishtirupa@linux:~$ cat > BigData
1
2
3
4
5
6
7
8
9
0
1
2
3
```

```
srishtirupa@linux:~$ ls
Desktop   Downloads   Pictures   snap   Videos
Documents   Music   Public   Templates
srishtirupa@linux:~$ ls -a
.   .config   Music   Templates
..   Desktop   Pictures   .vboxclient-clipboard.pid
.bash_history Documents   .profile   .vboxclient-draganddrop.pid
.bash_logout   Downloads   Public   .vboxclient-seamless.pid
.bashrc   .gnupg   snap   .vboxclient-vmsvga-session-tty2.pid
.cache   .local   .ssh   Videos
srishtirupa@linux:~$ ls -l
total 36
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Desktop
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Documents
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Downloads
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Music
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Pictures
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Public
drwx------ 3 srishtirupa srishtirupa 4096 Apr 14 04:33 snap
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Templates
drwxr-xr-x 2 srishtirupa srishtirupa 4096 Apr 14 04:33 Videos
srishtirupa@linux:~$
```
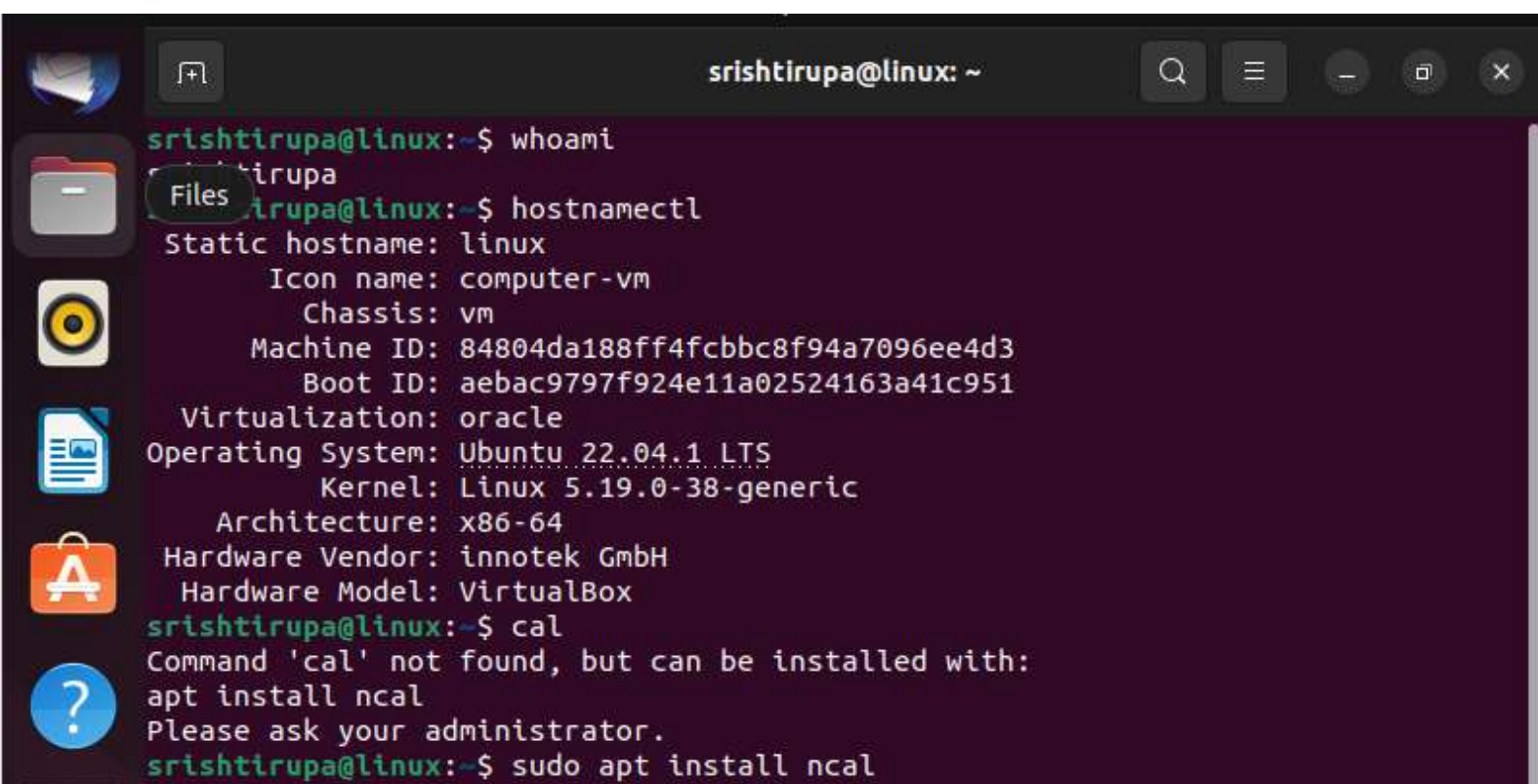
```
srishtirupa@linux:~$ pwd
/home/srishtirupa
srishtirupa@linux:~$ mkdir FirstDir
srishtirupa@linux:~$ ls
Desktop   Downloads   Music   Public   Templates
Documents   FirstDir   Pictures   snap   Videos
srishtirupa@linux:~$ mkdir secondDir,hello
srishtirupa@linux:~$ lf
lf: command not found
srishtirupa@linux:~$ ls -r
Videos   snap   Public   Music   Downloads Desktop
Templates   secondDir,hello   Pictures   FirstDir   Documents
srishtirupa@linux:~$ Touch Test1
Command 'Touch' not found, did you mean:
  command 'touch' from deb coreutils (8.32-4.1ubuntu1)
Try: apt install <deb name>
srishtirupa@linux:~$ touch Test1
srishtirupa@linux:~$ ls
Desktop   Downloads   Music   Public   snap   Test1
Documents   FirstDir   Pictures   secondDir,hello Templates Videos
srishtirupa@linux:~$ cat test2
cat: test2: No such file or directory
srishtirupa@linux:~$ cat > test2
Hello,Welcome to infobell
```

```
srishtirupa@linux:~$ ls
Desktop      Downloads   Music      Public              snap        Test1    Videos
Documents    FirstDir    Pictures   secondDir,hello     Templates   test2
srishtirupa@linux:~$ cat test2
Hello,Welcome to infobell
srishtirupa@linux:~$ cat Test1 test2 > test3
srishtirupa@linux:~$ ls
Desktop      Downloads   Music      Public              snap        Test1    test3
Documents    FirstDir    Pictures   secondDir,hello     Templates   test2    Videos
srishtirupa@linux:~$ vat test3
Command 'vat' not found, did you mean:
  command 'vht' from snap vht (0.4.3)
  command 'vt' from deb vt (0.57721+ds-3)
  command 'iat' from deb iat (0.1.3-7build1)
  command 'vit' from deb vit (2.1.0-2)
  command 'vax' from deb simh (3.8.1-6.1)
  command 'at' from deb at (3.2.5-1ubuntu1)
  command 'cat' from deb coreutils (8.32-4.1ubuntu1)
  command 'pat' from deb dist (1:3.5-236-1)
  command 'dat' from deb liballegro4-dev (2:4.4.3.1-2)
  command 'vam' from deb vim-addon-manager (0.5.10)
  command 'vcat' from deb atfs (1.4pl6-15)
See 'snap info <snapname>' for additional versions.
srishtirupa@linux:~$ cat test3
Hello,Welcome to infobell
srishtirupa@linux:~$
```

```
srishtirupa@linux:~$ whoami
srishtirupa
    irupa@linux:~$ hostnamectl
  Static hostname: linux
         Icon name: computer-vm
           Chassis: vm
        Machine ID: 84804da188ff4fcbbc8f94a7096ee4d3
           Boot ID: aebac9797f924e11a02524163a41c951
    Virtualization: oracle
  Operating System: Ubuntu 22.04.1 LTS
            Kernel: Linux 5.19.0-38-generic
      Architecture: x86-64
   Hardware Vendor: innotek GmbH
    Hardware Model: VirtualBox
srishtirupa@linux:~$ cal
Command 'cal' not found, but can be installed with:
apt install ncal
Please ask your administrator.
srishtirupa@linux:~$ sudo apt install ncal
```

```
BigData    Desktop      Downloads  Music      Public          snap        test3
demo1      Documents    igTest     Pictures   secondDir,hello Templates   Videos
srishtirupa@linux:~$ cat BigData
1
2
3
4
5
6
7
8
9
0
1
2
3
srishtirupa@linux:~$ head BigData
1
2
3
4
5
6
7
8
9
0
srishtirupa@linux:~$ tail BigData
4
5
6
7
8
9
0
1
2
3
srishtirupa@linux:~$ head -n 3 BigData
1
2
3
```

```
srishtirupa@linux:~$ ls
BigData  demo1  Desktop  Documents  Downloads  igTest  Music  Pictures  Public  secondDir,hello  snap  Templates  test3  Videos
srishtirupa@linux:~$ touch T1.txt
srishtirupa@linux:~$ ls
BigData  demo1  Desktop  Documents  Downloads  igTest  Music  Pictures  Public  secondDir,hello  snap  T1.txt  Templates  test3  Videos
srishtirupa@linux:~$ find . -name "*.txt"
./T1.txt
./.cache/tracker3/files/last-crawl.txt
./.cache/tracker3/files/locale-for-miner-apps.txt
./.cache/tracker3/files/first-index.txt
srishtirupa@linux:~$ cat > class.txt
Sam cs
Daniel cs
John IT
Arya IT
Mike ECE
Helena ECE
```

```
srishtirupa@linux:~$ echo class7
class7
srishtirupa@linux:~$ echo class7 | sed 's/class/jpt/'
jpt7
srishtirupa@linux:~$ echo class20 | sed 's/20/300/'
class300
srishtirupa@linux:~$ cat msg.txt
learn linux,learn fast
linux is very easy to study
srishtirupa@linux:~$ cat msg.txt | sed 's/learn/study/'
study linux,learn fast
linux is very easy to study
srishtirupa@linux:~$ echo class7 class9 | sed 's/class/jpt/'
jpt7 class9
srishtirupa@linux:~$ echo class7 class9 | sed 's/class/jpt/g'
jpt7 jpt9
srishtirupa@linux:~$ cat msg.txt | sed 's/learn/study/g'
study linux,study fast
linux is very easy to study
srishtirupa@linux:~$ cat msg.txt | sed 's/linux/python/g'
learn python,learn fast
python is very easy to study
srishtirupa@linux:~$ cat msg.txt | sed 's/linux/python/'
learn python,learn fast
python is very easy to study
srishtirupa@linux:~$ cat msg.txt
learn linux,learn fast
linux is very easy to study
srishtirupa@linux:~$ cat > msg.txt
this is new file
welcome to new file
learn linux
linux is very easy
it's interesting^Z
[1]+  Stopped                 cat > msg.txt
srishtirupa@linux:~$ cat msg.txt
this is new file
welcome to new file
learn linux
linux is very easy
srishtirupa@linux:~$ cat msg.txt | sed '/file/d'
learn linux
linux is very easy
srishtirupa@linux:~$
```

```
srishtirupa@linux:~$ du
4        ./Videos
4        ./Documents
4        ./Public
4        ./secondDir,hello
4        ./Pictures
4        ./.ssh
12       ./.config/ibus/bus
16       ./.config/ibus
16       ./.config/evolution/sources
20       ./.config/evolution
4        ./.config/nautilus
84       ./.config/pulse
4        ./.config/update-notifier
4        ./.config/goa-1.0
4        ./.config/gnome-session/saved-session
8        ./.config/gnome-session
8        ./.config/gtk-3.0
8        ./.config/dconf
172      ./.config
4        ./Desktop
4        ./Downloads
4        ./Music
192      ./.cache/ibus/bus
196      ./.cache/ibus
4        ./.cache/evolution/sources/trash
8        ./.cache/evolution/sources
4        ./.cache/evolution/memos/trash
8        ./.cache/evolution/memos
4        ./.cache/evolution/mail/trash
8        ./.cache/evolution/mail
4        ./.cache/evolution/addressbook/trash
8        ./.cache/evolution/addressbook
4        ./.cache/evolution/tasks/trash
8        ./.cache/evolution/tasks
4        ./.cache/evolution/calendar/trash
8        ./.cache/evolution/calendar
52       ./.cache/evolution
4        ./.cache/tracker3/files/errors
17628    ./.cache/tracker3/files
17632    ./.cache/tracker3
8        ./.cache/ubuntu-report
12       ./.cache/mesa_shader_cache/d8
12       ./.cache/mesa_shader_cache/b0
8        ./.cache/mesa_shader_cache/fe
8        ./.cache/mesa_shader_cache/05
8        ./.cache/mesa_shader_cache/91
8        ./.cache/mesa_shader_cache/51
12       ./.cache/mesa_shader_cache/13
```

```
4        ./snap/snapd-desktop-integration/14/Pictures
4        ./snap/snapd-desktop-integration/14/.config/ibus
4        ./snap/snapd-desktop-integration/14/.config/gtk-2.0
4        ./snap/snapd-desktop-integration/14/.config/gtk-3.0
8        ./snap/snapd-desktop-integration/14/.config/fontconfig
4        ./snap/snapd-desktop-integration/14/.config/dconf
44       ./snap/snapd-desktop-integration/14/.config
4        ./snap/snapd-desktop-integration/14/Desktop
4        ./snap/snapd-desktop-integration/14/Downloads
4        ./snap/snapd-desktop-integration/14/Music
4        ./snap/snapd-desktop-integration/14/Templates
4        ./snap/snapd-desktop-integration/14/.local/share/glib-2.0/schemas
8        ./snap/snapd-desktop-integration/14/.local/share/glib-2.0
4        ./snap/snapd-desktop-integration/14/.local/share/icons
16       ./snap/snapd-desktop-integration/14/.local/share
20       ./snap/snapd-desktop-integration/14/.local
104      ./snap/snapd-desktop-integration/14
4        ./snap/snapd-desktop-integration/57/Videos
4        ./snap/snapd-desktop-integration/57/Documents
4        ./snap/snapd-desktop-integration/57/Public
4        ./snap/snapd-desktop-integration/57/Pictures
4        ./snap/snapd-desktop-integration/57/.config/ibus
4        ./snap/snapd-desktop-integration/57/.config/gtk-2.0
4        ./snap/snapd-desktop-integration/57/.config/gtk-3.0
8        ./snap/snapd-desktop-integration/57/.config/fontconfig
4        ./snap/snapd-desktop-integration/57/.config/dconf
44       ./snap/snapd-desktop-integration/57/.config
4        ./snap/snapd-desktop-integration/57/Desktop
4        ./snap/snapd-desktop-integration/57/Downloads
4        ./snap/snapd-desktop-integration/57/Music
4        ./snap/snapd-desktop-integration/57/Templates
4        ./snap/snapd-desktop-integration/57/.local/share/glib-2.0/schemas
8        ./snap/snapd-desktop-integration/57/.local/share/glib-2.0
4        ./snap/snapd-desktop-integration/57/.local/share/icons
16       ./snap/snapd-desktop-integration/57/.local/share
20       ./snap/snapd-desktop-integration/57/.local
104      ./snap/snapd-desktop-integration/57
28       ./snap/snapd-desktop-integration/common/.cache/gio-modules
72       ./snap/snapd-desktop-integration/common/.cache/immodules
108      ./snap/snapd-desktop-integration/common/.cache
112      ./snap/snapd-desktop-integration/common
324      ./snap/snapd-desktop-integration
328      ./snap
12       ./.gnupg
20508    .
srishtirupa@linux:~$ du -s
20508    .
srishtirupa@linux:~$ 
```

```
srishtirupa@linux:~$ du -h
4.0K     ./Videos
4.0K     ./Documents
4.0K     ./Public
4.0K     ./secondDir,hello
4.0K     ./Pictures
4.0K     ./.ssh
12K      ./.config/ibus/bus
16K      ./.config/ibus
16K      ./.config/evolution/sources
20K      ./.config/evolution
4.0K     ./.config/nautilus
84K      ./.config/pulse
4.0K     ./.config/update-notifier
4.0K     ./.config/goa-1.0
4.0K     ./.config/gnome-session/saved-session
8.0K     ./.config/gnome-session
8.0K     ./.config/gtk-3.0
8.0K     ./.config/dconf
172K     ./.config
4.0K     ./Desktop
4.0K     ./Downloads
4.0K     ./Music
192K     ./.cache/ibus/bus
196K     ./.cache/ibus
4.0K     ./.cache/evolution/sources/trash
8.0K     ./.cache/evolution/sources
4.0K     ./.cache/evolution/memos/trash
8.0K     ./.cache/evolution/memos
4.0K     ./.cache/evolution/mail/trash
8.0K     ./.cache/evolution/mail
4.0K     ./.cache/evolution/addressbook/trash
8.0K     ./.cache/evolution/addressbook
4.0K     ./.cache/evolution/tasks/trash
8.0K     ./.cache/evolution/tasks
4.0K     ./.cache/evolution/calendar/trash
8.0K     ./.cache/evolution/calendar
```

```
104K     ./snap/snapd-desktop-integration/57
28K      ./snap/snapd-desktop-integration/common/.cache/gio-modules
72K      ./snap/snapd-desktop-integration/common/.cache/immodules
108K     ./snap/snapd-desktop-integration/common/.cache
112K     ./snap/snapd-desktop-integration/common
324K     ./snap/snapd-desktop-integration
328K     ./snap
12K      ./.gnupg
21M      .
srishtirupa@linux:~$ du --time
4        2023-04-14 04:33        ./Videos
4        2023-04-14 04:33        ./Documents
4        2023-04-14 04:33        ./Public
4        2023-04-14 09:57        ./secondDir,hello
4        2023-04-14 04:33        ./Pictures
4        2023-04-14 04:36        ./.ssh
12       2023-04-17 12:33        ./.config/ibus/bus
16       2023-04-17 12:33        ./.config/ibus
16       2023-04-14 04:36        ./.config/evolution/sources
20       2023-04-14 04:36        ./.config/evolution
4        2023-04-14 04:34        ./.config/nautilus
84       2023-04-17 12:33        ./.config/pulse
4        2023-04-14 04:35        ./.config/update-notifier
4        2023-04-14 04:34        ./.config/goa-1.0
4        2023-04-14 04:39        ./.config/gnome-session/saved-session
8        2023-04-14 04:39        ./.config/gnome-session
8        2023-04-17 12:33        ./.config/gtk-3.0
8        2023-04-14 13:04        ./.config/dconf
172      2023-04-17 12:33        ./.config
4        2023-04-14 04:33        ./Desktop
4        2023-04-14 04:33        ./Downloads
4        2023-04-14 04:33        ./Music
192      2023-04-14 04:34        ./.cache/ibus/bus
196      2023-04-14 04:34        ./.cache/ibus
4        2023-04-14 04:34        ./.cache/evolution/sources/trash
8        2023-04-14 04:34        ./.cache/evolution/sources
4        2023-04-14 04:34        ./.cache/evolution/memos/trash
8        2023-04-14 04:34        ./.cache/evolution/memos
4        2023-04-14 04:34        ./.cache/evolution/mail/trash
8        2023-04-14 04:34        ./.cache/evolution/mail
4        2023-04-14 04:34        ./.cache/evolution/addressbook/trash
8        2023-04-14 04:34        ./.cache/evolution/addressbook
```

```
srishtirupa@linux:~$ systemctl suspend
srishtirupa@linux:~$ hostnamectl status
 Static hostname: linux
       Icon name: computer-vm
         Chassis: vm
      Machine ID: 84804da188ff4fcbbc8f94a7096ee4d3
         Boot ID: da35ac7e6f7143ce972373900a5e9f09
  Virtualization: oracle
Operating System: Ubuntu 22.04.1 LTS
          Kernel: Linux 5.19.0-38-generic
    Architecture: x86-64
 Hardware Vendor: innotek GmbH
  Hardware Model: VirtualBox
srishtirupa@linux:~$ hostnamectl
 Static hostname: linux
       Icon name: computer-vm
         Chassis: vm
      Machine ID: 84804da188ff4fcbbc8f94a7096ee4d3
         Boot ID: da35ac7e6f7143ce972373900a5e9f09
  Virtualization: oracle
Operating System: Ubuntu 22.04.1 LTS
          Kernel: Linux 5.19.0-38-generic
    Architecture: x86-64
 Hardware Vendor: innotek GmbH
  Hardware Model: VirtualBox
srishtirupa@linux:~$ hostname -i
127.0.1.1
srishtirupa@linux:~$ hostname -a
linux
srishtirupa@linux:~$ dmidecode
# dmidecode 3.3
/sys/firmware/dmi/tables/smbios_entry_point: Permission denied
Scanning /dev/mem for entry point.
/dev/mem: Permission denied
srishtirupa@linux:~$ sudo demidecode -t bios
[sudo] password for srishtirupa:
srishtirupa is not in the sudoers file.  This incident will be reported.
```

```
NAME     MAJ:MIN RM       SIZE RO TYPE MOUNTPOINTS
loop0    7:0     0     64970752  1 loop /snap/core20/1587
loop1    7:1     0         4096  1 loop /snap/bare/5
loop2    7:2     0     66392064  1 loop /snap/core20/1852
loop3    7:3     0     76537856  1 loop /snap/core22/607
loop4    7:4     0    171225088  1 loop /snap/firefox/1635
loop5    7:5     0    420265984  1 loop /snap/gnome-3-38-2004/112
loop6    7:6     0    366673920  1 loop /snap/gnome-3-38-2004/137
loop7    7:7     0    482750464  1 loop /snap/gnome-42-2204/68
loop8    7:8     0     96141312  1 loop /snap/gtk-common-themes/1535
loop9    7:9     0     48091136  1 loop /snap/snap-store/582
loop10   7:10    0     48160768  1 loop /snap/snap-store/638
loop11   7:11    0     52260864  1 loop /snap/snapd/18596
loop12   7:12    0       290816  1 loop /snap/snapd-desktop-integration/14
loop13   7:13    0       438272  1 loop /snap/snapd-desktop-integration/57
loop14   7:14    0    253673472  1 loop /snap/firefox/2559
loop15   7:15    0    482947072  1 loop /snap/gnome-42-2204/87
sda      8:0     0  55361994752  0 disk
├─sda1   8:1     0      1048576  0 part
├─sda2   8:2     0    537919488  0 part /boot/efi
└─sda3   8:3     0  54821650432  0 part /var/snap/firefox/common/host-hunspell
                                        /
sr0      11:0    1   1073741312  0 rom
srishtirupa@linux:~$ lsblk -a
NAME     MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0    7:0     0     62M  1 loop /snap/core20/1587
loop1    7:1     0      4K  1 loop /snap/bare/5
loop2    7:2     0   63.3M  1 loop /snap/core20/1852
loop3    7:3     0     73M  1 loop /snap/core22/607
loop4    7:4     0  163.3M  1 loop /snap/firefox/1635
loop5    7:5     0  400.8M  1 loop /snap/gnome-3-38-2004/112
loop6    7:6     0  349.7M  1 loop /snap/gnome-3-38-2004/137
loop7    7:7     0  460.4M  1 loop /snap/gnome-42-2204/68
loop8    7:8     0   91.7M  1 loop /snap/gtk-common-themes/1535
loop9    7:9     0   45.9M  1 loop /snap/snap-store/582
loop10   7:10    0   45.9M  1 loop /snap/snap-store/638
loop11   7:11    0   49.8M  1 loop /snap/snapd/18596
loop12   7:12    0    284K  1 loop /snap/snapd-desktop-integration/14
loop13   7:13    0    428K  1 loop /snap/snapd-desktop-integration/57
loop14   7:14    0  241.9M  1 loop /snap/firefox/2559
loop15   7:15    0  460.6M  1 loop /snap/gnome-42-2204/87
sda      8:0     0   51.6G  0 disk
├─sda1   8:1     0      1M  0 part
├─sda2   8:2     0    513M  0 part /boot/efi
└─sda3   8:3     0   51.1G  0 part /var/snap/firefox/common/host-hunspell
                                   /
sr0      11:0    1   1024M  0 rom
```