```
-rw-r--r-- 1 ryan ryan 3771 Jan 9 18:33 .bashrc
drwx----- 12 ryan ryan 4096 Jan 9 19:25 .cache/
drwx----- 13 ryan ryan 4096 Jan 16 18:47 .config/
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Desktop/
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Documents/
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Downloads/
----rw-r-- 1 ryan ryan 16 Jan 16 18:47 ex1.txt
drwx----- 2 ryan ryan 4096 Jan 16 18:01 .gnupg/
drwxr--r-- 2 ryan ryan 4096 Jan 16 19:35 .hardinfo/
drwx----- 3 ryan ryan 4096 Jan 9 18:56 .local/
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Music/
drwxr-xr-x 3 ryan ryan 4096 Jan 16 18:00 Pictures/
-rw-r--r-- 1 ryan ryan 807 Jan 9 18:33 .profile
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Public/
drwx----- 3 ryan ryan 4096 Jan 9 18:57 snap/
drwx----- 2 ryan ryan 4096 Jan 16 18:01 .ssh/
-rw-r--r-- 1 ryan ryan 0 Jan 16 19:15 .sudo as admin successful
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Templates/
drwxrwxr-x 4 ryan ryan 4096 Jan 16 18:59 tmp/
drwxr-xr-x 2 ryan ryan 4096 Jan 9 18:56 Videos/
ryan@ryan-VirtualBox:~$
```



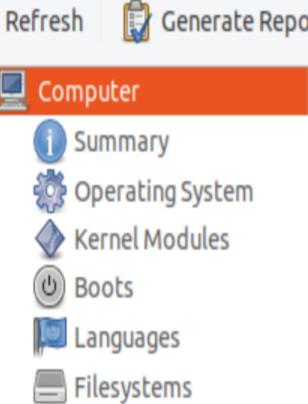




Information View Help



Generate Report Copy to Clipboard





Environment Variables

🔓 Development



Groups

Devices

Processor

Memory

PCI Devices

USB Devices

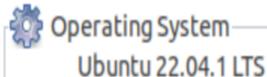
Printers

Battery

Sensors

Input Devices

Computer → Summary



CPU

Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz 1 physical processor; 2 cores; 2 threads

RAM

9639964 KiB



Motherboard

1.2 / VirtualBox (Oracle Corporation)



Graphics

1280x720 (Unknown)

The X.Org Foundation



Storage

VBOX CD-ROM ATA VBOX HARDDISK



Printers



Audio

```
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ ls -l
total 16
drwxrwxr-x 2 ryan ryan 4096 Jan 16 19:00 directory1
drwxrwxr-x 2 ryan ryan 4096 Jan 16 19:00 directory2
-rw-rw-r-- 1 ryan ryan 16 Jan 16 19:01 ex2.txt
-rw-rw-r-- 1 ryan ryan 16 Jan 16 19:01 ex3.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ sudo chown root ex2.txt
[sudo] password for ryan:
aSorry, try again.
[sudo] password for ryan:
Sorry, try again.
[sudo] password for ryan:
sudo: 3 incorrect password attempts
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ sudo chown root ex2.txt
[sudo] password for ryan:
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ ls -l
total 16
drwxrwxr-x 2 ryan ryan 4096 Jan 16 19:00 directory1
drwxrwxr-x 2 ryan ryan 4096 Jan 16 19:00 directory2
-rw-rw-r-- 1 root ryan 16 Jan 16 19:01 ex2.txt
-rw-rw-r-- 1 ryan ryan 16 Jan 16 19:01 ex3.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$
```

```
ryan@ryan-VirtualBox:~/tmp$ cd OS/CWU/LabAssignments
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ mkdir directory1
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ mkdir directory2
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ touch ex2.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ touch ex3.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ open ex2.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ open ex3.txt
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ pdw
Command 'pdw' not found, did you mean:
  command 'ptw' from snap ptw (1.0.0)
  command 'pdd' from deb pdd (1.5-1)
  command 'pdl' from deb pdl (1:2.074-1)
  command 'psw' from deb wise (2.4.1-23)
  command 'pda' from deb speech-tools (1:2.5.0-12)
  command 'pd' from deb puredata-core (0.52.1+ds0-1)
  command 'pdb' from deb python-dev-is-python3 (3.9.2-2)
  command 'cdw' from deb cdw (0.8.1-2)
  command 'pmw' from deb pmw (1:4.50-1)
  command 'pfw' from deb pftools (3.2.11-2)
  command 'pwd' from deb coreutils (8.32-4.1ubuntu1)
See 'snap info <snapname>' for additional versions.
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ pwd
/home/ryan/tmp/OS/CWU/LabAssignments
ryan@ryan-VirtualBox:~/tmp/OS/CWU/LabAssignments$ S
```

```
ryan@ryan-VirtualBox:~$ open ex1.txt
ryan@ryan-VirtualBox:~$ cat ex1.txt
This is a test.
ryan@ryan-VirtualBox:~$ ls
Documents ex1.txt Pictures snap Videos
ryan@ryan-VirtualBox:~$
```

```
ryan@ryan-VirtualBox:~$ touch ex1.txt
ryan@ryan-VirtualBox:~$ ex1
Command 'ex1' not found, did you mean:
  command 'exo' from snap exoscale-cli (v1.22.2)
  command 'exa' from deb exa (0.10.1-2)
  command 'ex' from deb vim (2:8.2.3995-1ubuntu2.1)
  command 'ex' from deb vim-tiny (2:8.2.3995-1ubuntu2.1)
  command 'ex' from deb neovim (0.6.1-3)
  command 'ex' from deb nvi (1.81.6-17)
  command 'ex' from deb vim-athena (2:8.2.3995-1ubuntu2.1)
 command 'ex' from deb vim-gtk3 (2:8.2.3995-1ubuntu2.1)
 command 'ex' from deb vim-nox (2:8.2.3995-1ubuntu2.1)
See 'snap info <snapname>' for additional versions.
ryan@ryan-VirtualBox:~$ ex1.txt
ex1.txt: command not found
ryan@ryan-VirtualBox:~$ cat ex1.txt
ryan@ryan-VirtualBox:~$ ls
Documents ex1.txt Pictures snap Videos
ryan@ryan-VirtualBox:~$
```