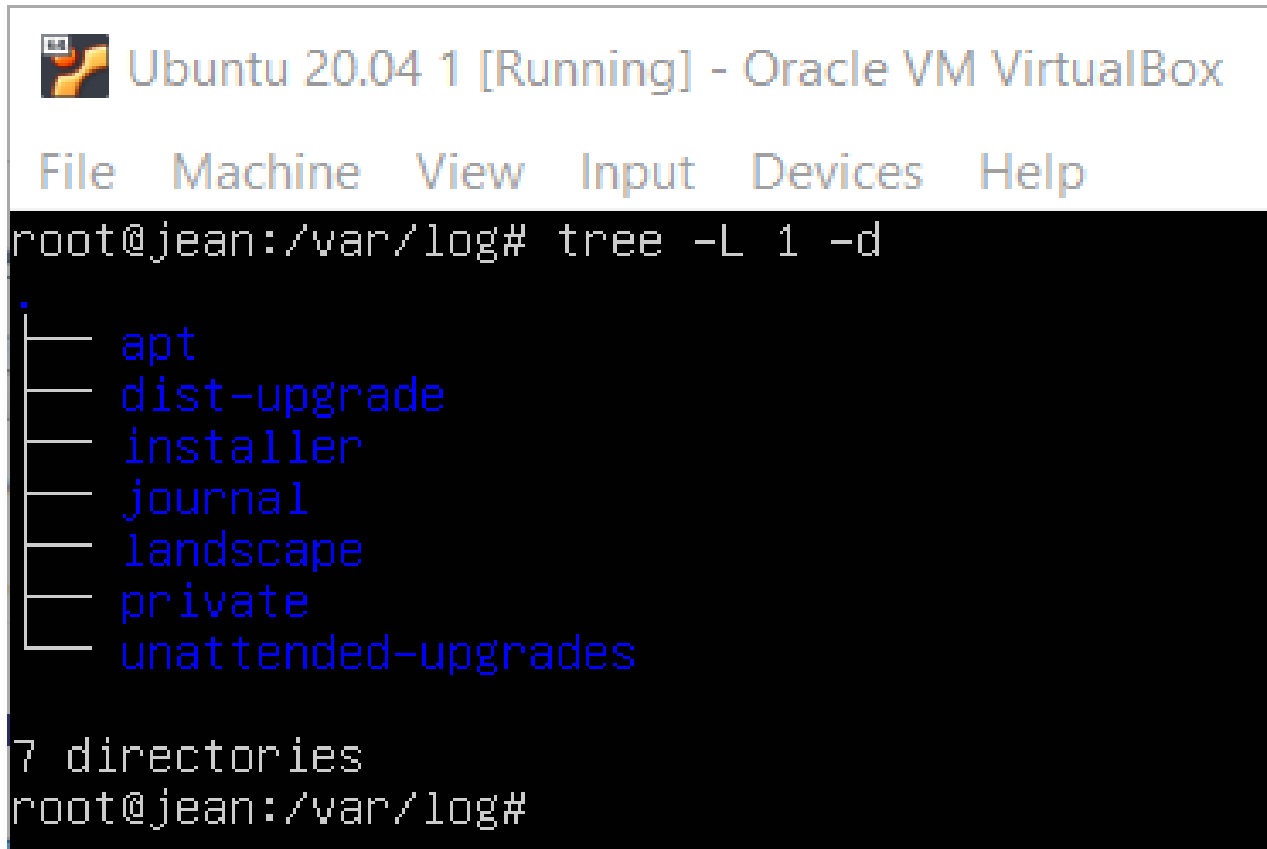


Linux exercise 3 - Filesystem

1. List only directories and one level from Linux root directory.



The screenshot shows a terminal window titled "Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox". The menu bar includes "File", "Machine", "View", "Input", "Devices", and "Help". The terminal prompt is "root@jean:/var/log#". The command "tree -L 1 -d" has been executed, resulting in a tree view of the /var/log directory. The output lists seven directories: apt, dist-upgrade, installer, journal, landscape, private, and unattended-upgrades. Below the tree view, it states "7 directories". The terminal prompt is now "root@jean:/var/log#".

```
root@jean:/var/log# tree -L 1 -d
.
├── apt
├── dist-upgrade
├── installer
├── journal
├── landscape
├── private
└── unattended-upgrades

7 directories
root@jean:/var/log#
```

2. List /var/log directory content with two levels and full path prefix for each file.

```
root@jean:/var/log# tree -L 2 -f
.
├── ./alternatives.log
├── ./apt
│   ├── ./apt/eipp.log.xz
│   ├── ./apt/history.log
│   └── ./apt/term.log
├── ./auth.log
├── ./auth.log.1
├── ./bootstrap.log
├── ./btmpt
├── ./cloud-init-output.log
├── ./cloud-init.log
├── ./dist-upgrade
├── ./dmesg
├── ./dmesg.0
├── ./dmesg.1.gz
├── ./dmesg.2.gz
├── ./dmesg.3.gz
├── ./dmesg.4.gz
├── ./dpkg.log
├── ./faillog
├── ./installer
│   ├── ./installer/autoinstall-user-data
│   ├── ./installer/block
│   ├── ./installer/casper-md5check.json
│   └── ./installer/curtin-install-cfg.yaml
```

```
root@jean:/var/log# tree -L 2 -f
.
├── ./alternatives.log
├── ./apt
│   ├── ./apt/eipp.log.xz
│   ├── ./apt/history.log
│   └── ./apt/term.log
├── ./auth.log
├── ./auth.log.1
├── ./bootstrap.log
├── ./btmpt
├── ./cloud-init-output.log
├── ./cloud-init.log
├── ./dist-upgrade
├── ./dmesg
├── ./dmesg.0
├── ./dmesg.1.gz
├── ./dmesg.2.gz
├── ./dmesg.3.gz
├── ./dmesg.4.gz
├── ./dpkg.log
├── ./faillog
├── ./installer
│   ├── ./installer/autoinstall-user-data
│   ├── ./installer/block
│   ├── ./installer/casper-md5check.json
│   ├── ./installer/curtin-install-cfg.yaml
│   ├── ./installer/curtin-install.log
│   ├── ./installer/installer-journal.txt
│   ├── ./installer/media-info
│   ├── ./installer/subiquity-client-debug.log -> subiquity-client-debug.log.2200
│   ├── ./installer/subiquity-client-debug.log.2200
│   ├── ./installer/subiquity-client-info.log -> subiquity-client-info.log.2200
│   ├── ./installer/subiquity-client-info.log.2200
│   ├── ./installer/subiquity-curtin-install.conf
│   ├── ./installer/subiquity-debug.log -> subiquity-debug.log.1902
│   ├── ./installer/subiquity-debug.log.1902
│   ├── ./installer/subiquity-info.log -> subiquity-info.log.1902
│   ├── ./installer/subiquity-info.log.1902
│   ├── ./installer/subiquity-server-debug.log -> subiquity-server-debug.log.2215
│   ├── ./installer/subiquity-server-debug.log.2215
│   ├── ./installer/subiquity-server-info.log -> subiquity-server-info.log.2215
│   └── ./installer/subiquity-server-info.log.2215
├── ./journal
│   └── ./journal/58acbcc7e105466bb922442fd9e1ccf9
├── ./kern.log
├── ./kern.log.1
├── ./landscape
│   └── ./landscape/sysinfo.log
├── ./lastlog
├── ./pristine
├── ./syslog
├── ./syslog.1
├── ./ubuntu-advantage.log
├── ./unattended-upgrades
│   ├── ./unattended-upgrades/unattended-upgrades-dpkg.log
│   ├── ./unattended-upgrades/unattended-upgrades-shutdown.log
│   └── ./unattended-upgrades/unattended-upgrades.log
└── ./utmp
```

3. List /bin directory content with owner information, size in human readable format and name starting with 'xs'.

```
Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root 14K] vmware-hgfsclient
[root 22K] vmware-namespace-cmd
[root 18K] vmware-rpctool
[root 46K] vmware-toolbox-cmd
[root 18K] vmware-vgauth-cmd
[root 22K] vmware-vgauth-smoketest
[root 23K] vmware-vmblock-fuse
[root 14K] vmware-xferlogs
[root 14K] volname
[root 19] w -> /etc/alternatives/w
[root 22K] w.procps
[root 34K] wall
[root 27K] watch
[root 18K] watchnupg
[root 46K] wc
[root 34K] wdcctl
[root 536K] wget
[root 55K] whatis
[root 35K] whereis
[root 946] which
[root 34K] whiptail
[root 58K] who
[root 38K] whoami
[root 2.1K] wifi-status
[root 23] write -> /etc/alternatives/write
[root 7] x86_64 -> setarch
[root 74K] xargs
[root 55K] xauth
[root 234] xdg-user-dir
[root 26K] xdg-user-dirs-update
[root 5.0K] xsubpp
[root 18K] xxd
[root 78K] xz
[root 2] xzcat -> xz
[root 6] xzcmp -> xzdiff
[root 6.5K] xzdiff
[root 6] xzegrep -> xzgrep
[root 6] xzfgrep -> xzgrep
[root 5.5K] xzgrep
[root 1.8K] xzless
[root 2.1K] xzmore
[root 38K] yes
[root 8] ypdomainname -> hostname
[root 1.9K] zcat
[root 1.6K] zcmp
[root 5.7K] zdiff
[root 26K] zdump
[root 29] zegrep
[root 29] zfgrep
[root 2.0K] zforce
[root 7.4K] zgrep
[root 50K] zipdetails
[root 2.2K] zless
[root 1.8K] zmore
[root 4.4K] znew
0 directories, 942 files
root@jean:/bin# tree -h -u
```