**Name: Muhammad Hamza**
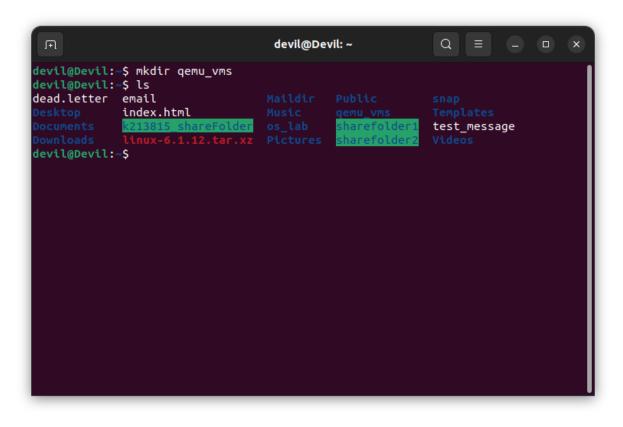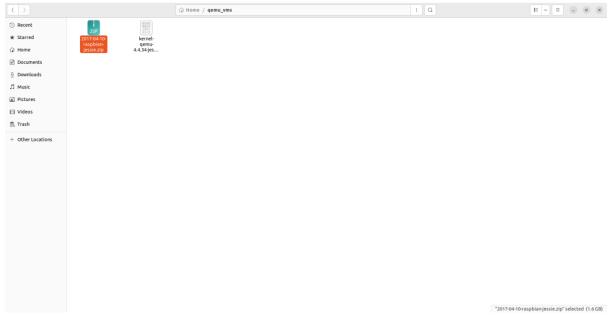
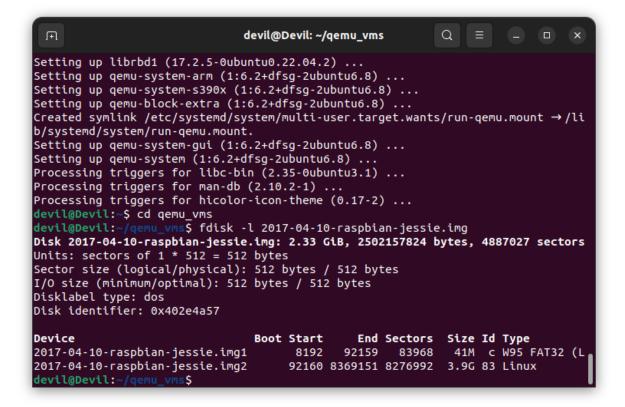**Roll-no : 21k-3815**

**Sec : BS-SE-4A**

```
Setting up libsdl2-2.0-0:amd64 (2.0.20+dfsg-2ubuntu1.22.04.1) ...
Setting up libpmem1:amd64 (1.11.1-3build1) ...
Setting up qemu-system-common (1:6.2+dfsg-2ubuntu6.8) ...
Created symlink /etc/systemd/system/multi-user.target.wants/qemu-kvm.service → /
lib/systemd/system/qemu-kvm.service.
Setting up qemu-system-mips (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-sparc (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-x86 (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-ppc (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-misc (1:6.2+dfsg-2ubuntu6.8) ...
Setting up libpmemobj1:amd64 (1.11.1-3build1) ...
Setting up libdecor-0-plugin-1-cairo:amd64 (0.1.0-3build1) ...
Setting up librbd1 (17.2.5-0ubuntu0.22.04.2) ...
Setting up qemu-system-arm (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-s390x (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-block-extra (1:6.2+dfsg-2ubuntu6.8) ...
Created symlink /etc/systemd/system/multi-user.target.wants/run-qemu.mount → /li
b/systemd/system/run-qemu.mount.
Setting up qemu-system-gui (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system (1:6.2+dfsg-2ubuntu6.8) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
devil@Devil:~$
```

```
Setting up librbd1 (17.2.5-0ubuntu0.22.04.2) ...
Setting up qemu-system-arm (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system-s390x (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-block-extra (1:6.2+dfsg-2ubuntu6.8) ...
Created symlink /etc/systemd/system/multi-user.target.wants/run-qemu.mount → /li
b/systemd/system/run-qemu.mount.
Setting up qemu-system-gui (1:6.2+dfsg-2ubuntu6.8) ...
Setting up qemu-system (1:6.2+dfsg-2ubuntu6.8) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
devil@Devil:~$ cd qemu_vms
devil@Devil:~/qemu_vms$ fdisk -l 2017-04-10-raspbian-jessie.img
Disk 2017-04-10-raspbian-jessie.img: 2.33 GiB, 2502157824 bytes, 4887027 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x402e4a57

Device                         Boot Start     End Sectors  Size Id Type
2017-04-10-raspbian-jessie.img1       8192   92159   83968   41M  c W95 FAT32 (L
2017-04-10-raspbian-jessie.img2      92160 8369151 8276992  3.9G 83 Linux
devil@Devil:~/qemu_vms$
```

```
devil@Devil:~/qemu_vms$ sudo mount -v -o offset=47185920 -t ext4 2017-04-10-rasp
bian-jessie.img /mnt/Raspbian
mount: /dev/loop13 mounted on /mnt/Raspbian.
devil@Devil:~/qemu_vms$ sudo nano /mnt/Raspbian/etc/id.so.preload
devil@Devil:~/qemu_vms$ sudo nano mnt/Raspbian/etc/id.so.preload
devil@Devil:~/qemu_vms$ sudo nano /mnt/Raspbian/etc/id.so.preload
devil@Devil:~/qemu_vms$ ls
2017-04-10-raspbian-jessie.img   kernel-qemu-4.4.34-jessie
2017-04-10-raspbian-jessie.zip
devil@Devil:~/qemu_vms$ ls -la
total 5716960
drwxrwxr-x   2 devil devil       4096 18:39 30 إبريل .
drwxrwx---+ 29 devil devil       4096 18:29 30 إبريل ..
-rw-r--r--   1 devil devil 4285005824 10-04-2017 18:48 30 إبريل-raspbian-jessie
.img
-rw-rw-r--   1 devil devil 1566114915 10-04-2017 18:36 30 إبريل-raspbian-jessie
.zip
-rw-rw-r--   1 devil devil    3024048 18:20 30 إبريل kernel-qemu-4.4.34-jessie
devil@Devil:~/qemu_vms$ ls -a
.    2017-04-10-raspbian-jessie.img   kernel-qemu-4.4.34-jessie
..   2017-04-10-raspbian-jessie.zip
devil@Devil:~/qemu_vms$ sudo nano /mnt/raspbian/etc/fstab
devil@Devil:~/qemu_vms$ sudo nano /mnt/Raspbian/etc/fstab
devil@Devil:~/qemu_vms$
```

```
  GNU nano 6.2                    /mnt/raspbian/etc/ld.so.preload
#/usr/lib/arm-linux-gnueabihf/libarmmem.so




















                          [ Read 1 line ]
^G Help      ^O Write Out  ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File  ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

Machine    View

```
systemd[1]: Mounted Debug File System.
systemd[1]: Mounting POSIX Message Queue File System...
         Mounting POSIX Message Queue File System...
systemd[1]: Starting Load Kernel Modules...
         Starting Load Kernel Modules...
systemd[1]: Starting system-autologin.slice.
[  OK  ] Created slice system-autologin.slice.
systemd[1]: Created slice system-autologin.slice.
systemd[1]: Started File System Check on Root Device.
systemd[1]: Starting Slices.
[  OK  ] Reached target Slices.
systemd[1]: Reached target Slices.
[  OK  ] Started Increase datagram queue length.
systemd[1]: Started Increase datagram queue length.
[  OK  ] Started Create Static Device Nodes in /dev.
systemd[1]: Started Create Static Device Nodes in /dev.
[  OK  ] Mounted POSIX Message Queue File System.
systemd[1]: Mounted POSIX Message Queue File System.
systemd[1]: systemd-modules-load.service: main process exited, code=exited, stat
us=1/FAILURE
[FAILED] Failed to start Load Kernel Modules.
See 'systemctl status systemd-modules-load.service' for details.
systemd[1]: Failed to start Load Kernel Modules.
systemd[1]: Unit systemd-modules-load.service entered failed state.
```

```
rmii76 -m 256 -M versatilepb -serial stdio -append "root=/dev/sda2 rootfstype=ex
t4 rw" -hda qemu_vms/2017-04-10-raspbian-jessie.img -net nic -net user,hostfwd=t
cp::5022-:22 -no-reboot
WARNING: Image format was not specified for 'qemu_vms/2017-04-10-raspbian-jessie
.img' and probing guessed raw.
         Automatically detecting the format is dangerous for raw images, write o
perations on block 0 will be restricted.
         Specify the 'raw' format explicitly to remove the restrictions.
qemu-system-arm: unable to find CPU model 'armii76'
devil@Devil:~$ qemu-system-arm -kernel qemu_vms/kernel-qemu-4.4.34-jessie -cpu a
rm1176 -m 256 -M versatilepb -serial stdio -append "root=/dev/sda2 rootfstype=ex
t4 rw" -hda qemu_vms/2017-04-10-raspbian-jessie.img -net nic -net user,hostfwd=t
cp::5022-:22 -no-reboot
WARNING: Image format was not specified for 'qemu_vms/2017-04-10-raspbian-jessie
.img' and probing guessed raw.
         Automatically detecting the format is dangerous for raw images, write o
perations on block 0 will be restricted.
         Specify the 'raw' format explicitly to remove the restrictions.
pulseaudio: set_sink_input_volume() failed
pulseaudio: Reason: Invalid argument
pulseaudio: set_sink_input_mute() failed
pulseaudio: Reason: Invalid argument
Uncompressing Linux... done, booting the kernel.
```