

Batch: B1 Roll No.:16010121045
Experiment / assignment / tutorial No. 2
Grade: AA / AB / BB / BC / CC / CD /DD
Signature of the Staff In-charge with date

Experiment No: 2

Title: Virtualization

Aim and Objective of the Experiment:

To perform VM Creation on windows and KVM on Linux Based Operating System.

COs to be achieved:

CO2: Investigate the system virtualization and outline its role in enabling the cloud computing System model

Theory:

Virtualization:

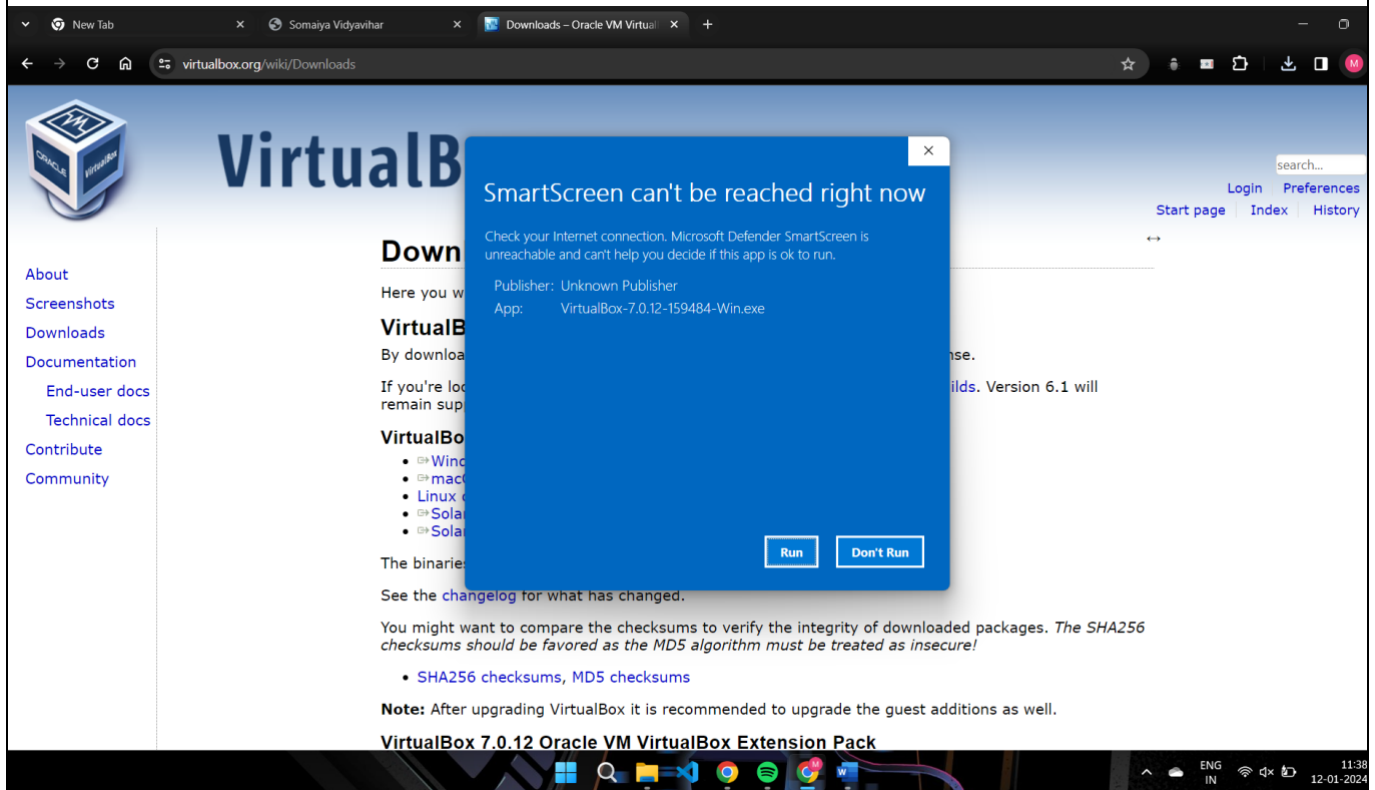
Virtualization enables the hardware resources of a single computer—processors, memory, storage and more—to be divided into multiple virtual computers, called virtual machines (VMs).

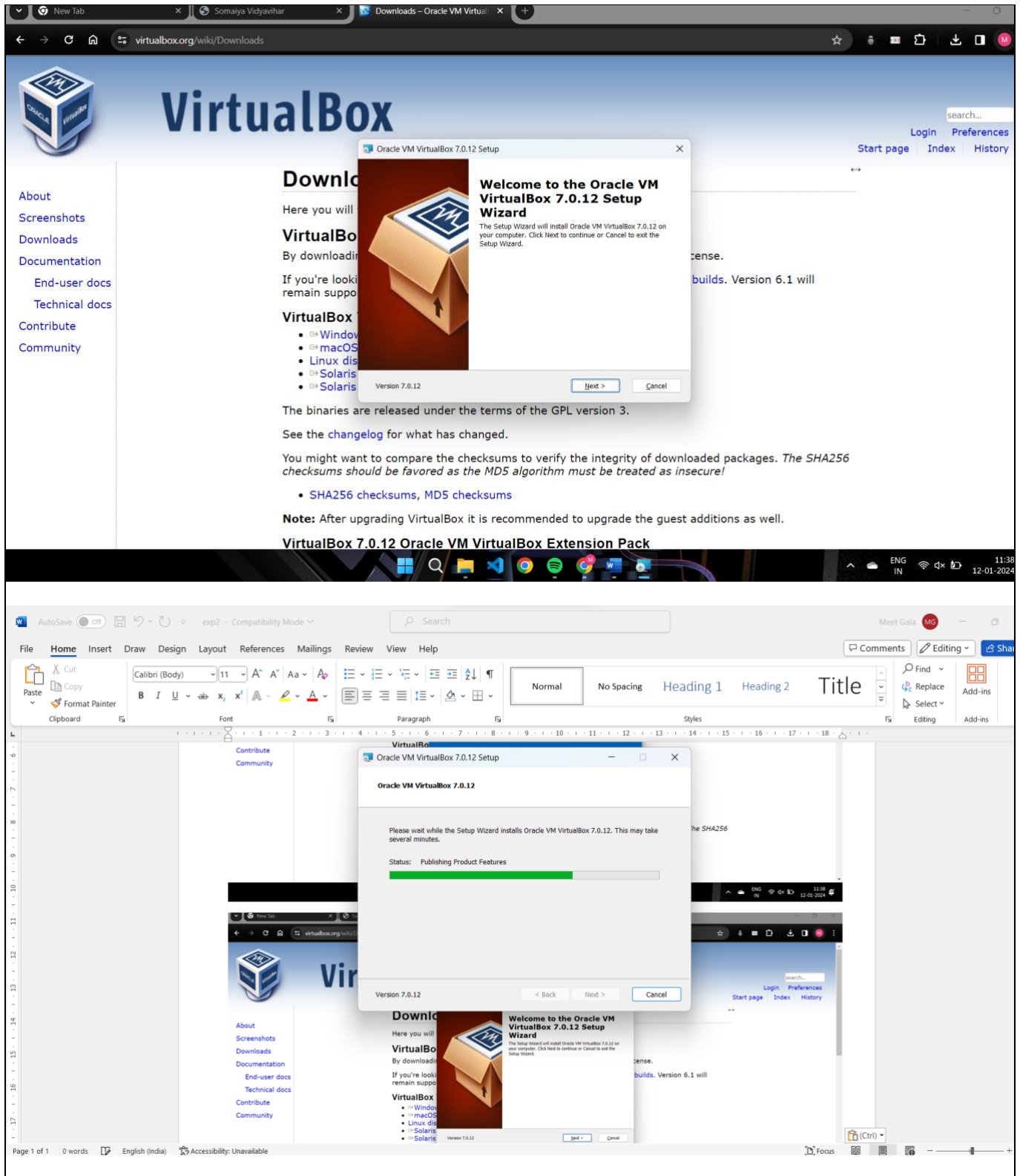
Virtualization uses software to create an abstraction layer over computer hardware that allows the hardware elements of a single computer—processors, memory, storage and more—to be divided into multiple virtual computers, commonly called virtual machines (VMs). Each VM runs its own operating system (OS) and behaves like an independent computer, even though it is running on just a portion of the actual underlying computer hardware.

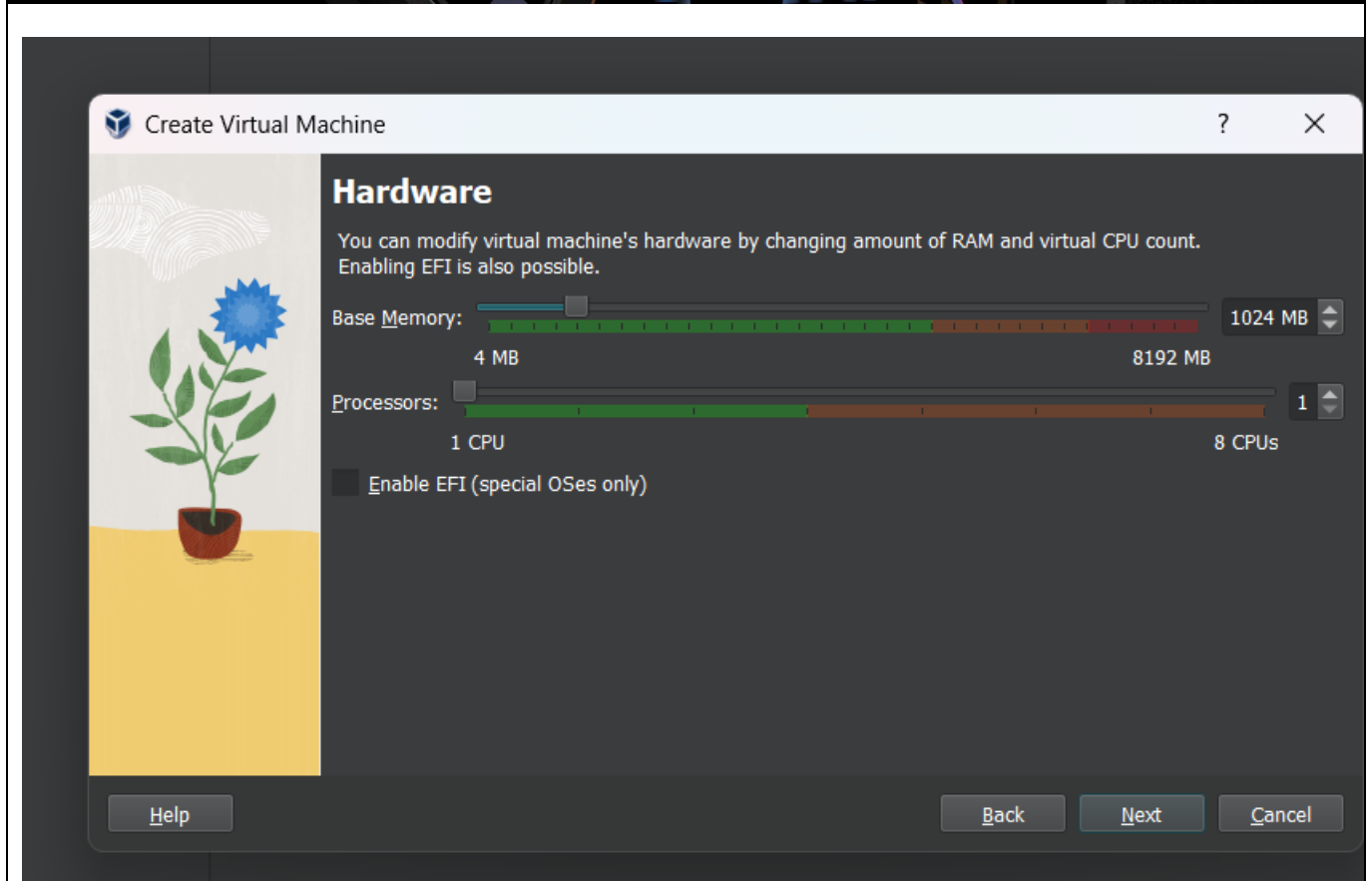
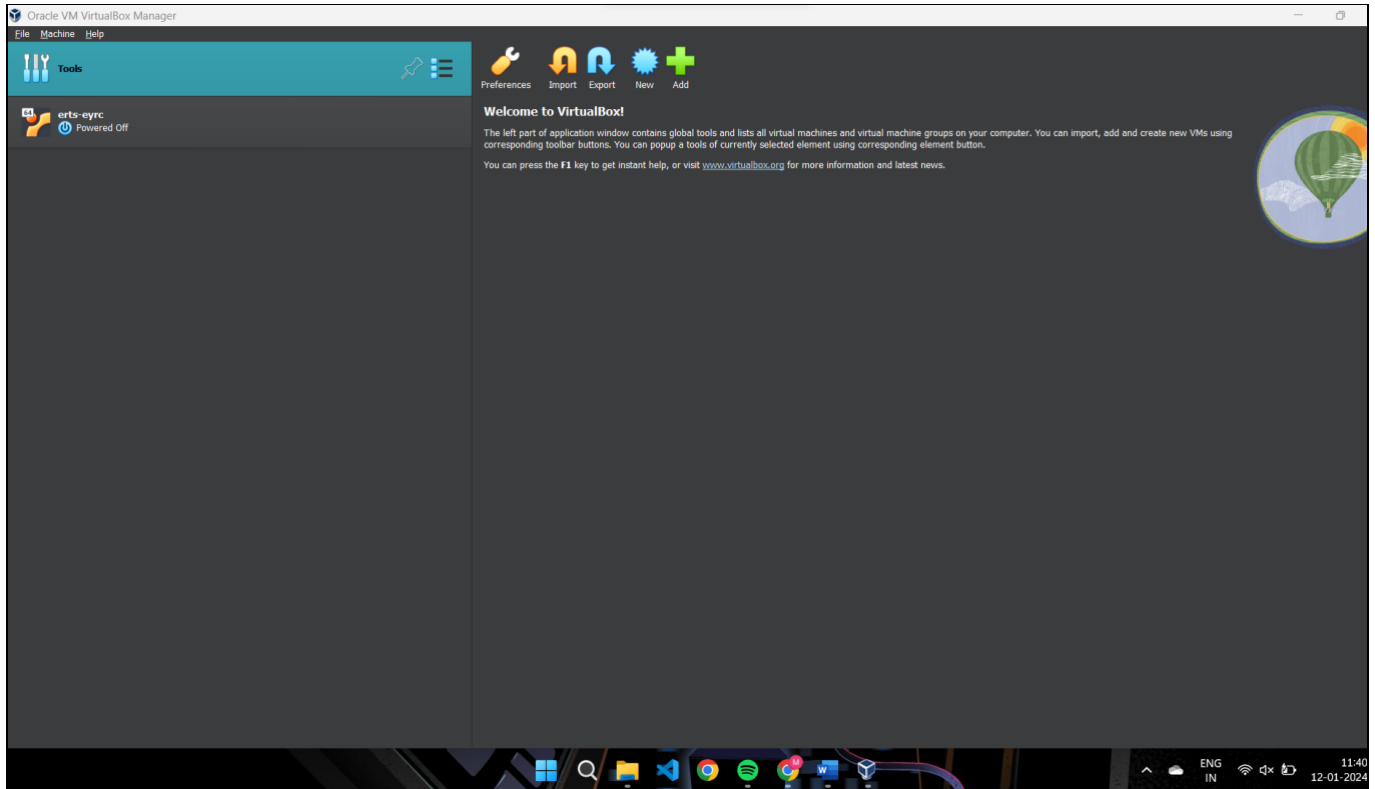
Today, virtualization is a standard practice in enterprise IT architecture. It is also the technology that drives cloud computing economics. Virtualization enables cloud providers to serve users with their existing physical computer hardware; it enables cloud users to purchase only the computing resources they need when they need it, and to scale those resources cost-effectively as their workloads grow.

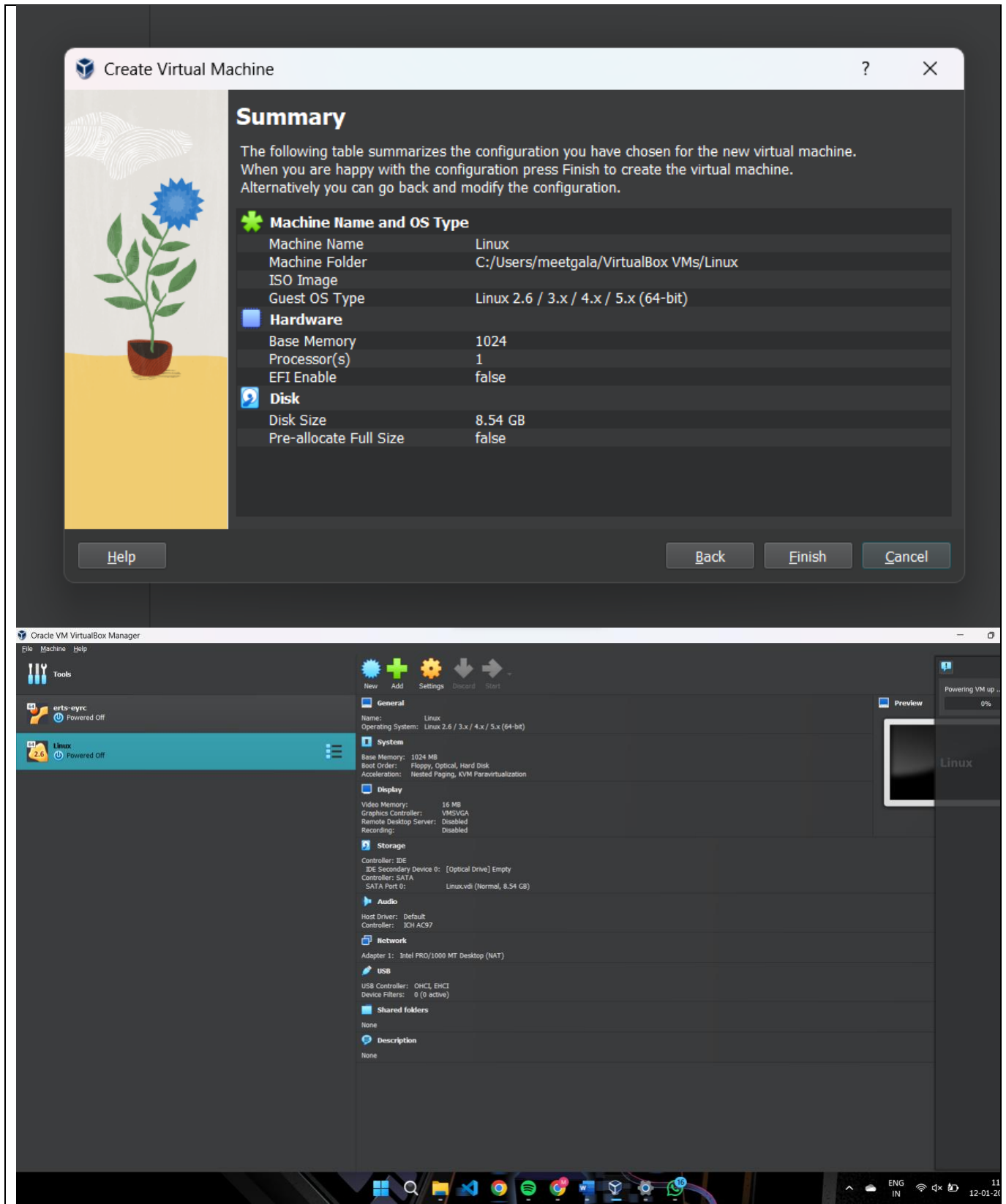
- Task (Take screenshots of all intermediate steps and paste here)

Installing Vmbox on Windows:









Boot Order: Floppy, Optical, Hard Disk

Create Virtual Machine

Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name: Mac ✓
 Folder: C:\Users\meetgala\VirtualBox VMs
 ISO Image: <not selected>
 Edition:
 Type: Mac OS X 64
 Version: Mac OS X (64-bit)
☐ Skip Unattended Installation
 No ISO image is selected, the guest OS will need to be installed manually.

Help Expert Mode Back Next Cancel

none
 Description
 none

System
 Base Memory: 1024 MB
 Boot Order: Floppy, Optical, Hard Disk

Create Virtual Machine

Summary

The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.

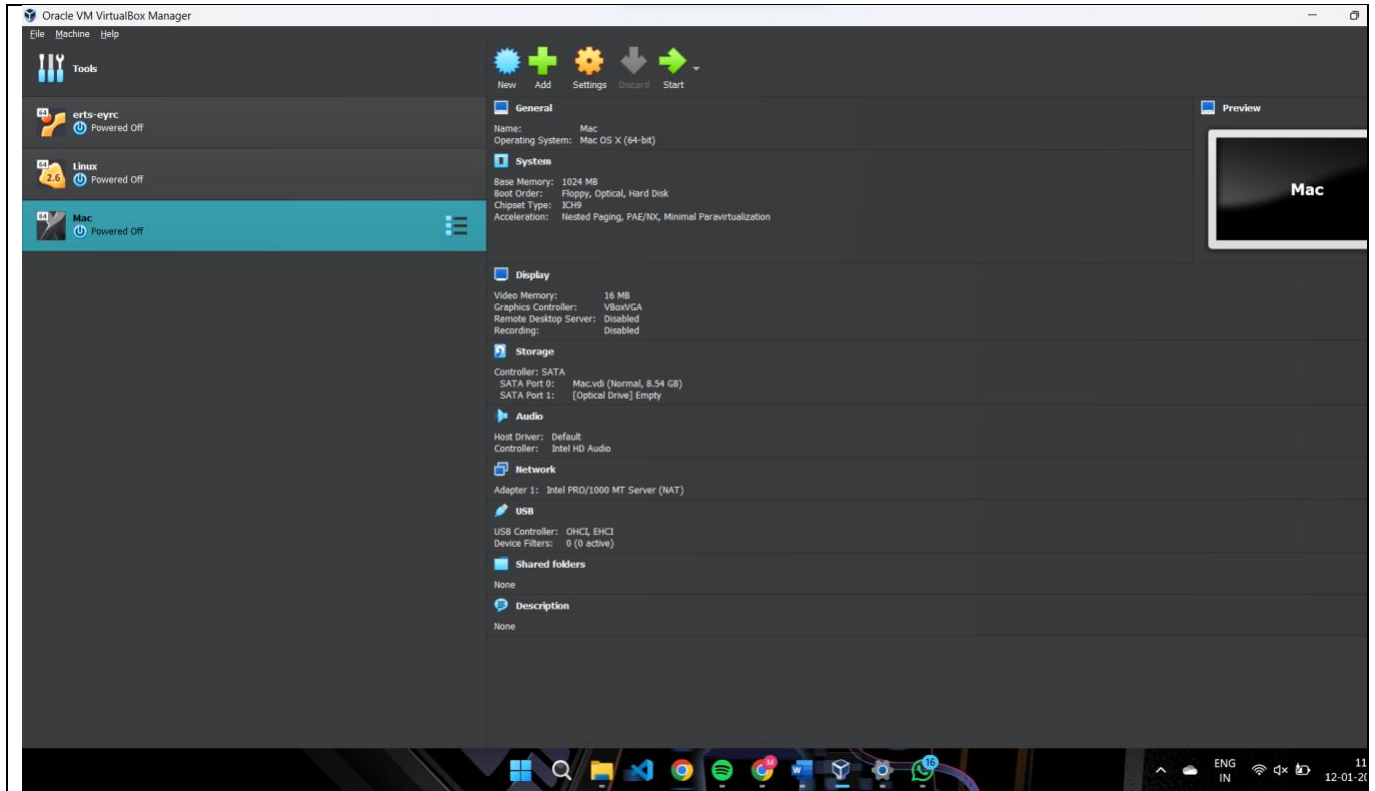
Machine Name and OS Type	
Machine Name	Mac
Machine Folder	C:\Users\meetgala\VirtualBox VMs\Mac
ISO Image	
Guest OS Type	Mac OS X (64-bit)

Hardware	
Base Memory	1024
Processor(s)	1
EFI Enable	false

Disk	
Disk Size	8.54 GB
Pre-allocate Full Size	false

Help Back Finish Cancel

none
 Description
 none



Installing Kvm Windows virtual machine on Ubuntu :

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ #sudo grep -c "svm\|vmx" /proc/cpuinfo  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ #sudo grep -c "svm\|vmx" /proc/cpuinfo  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo grep -c "svm\|vmx" /proc/cpuinfo  
[sudo] password for kjsce:  
40  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
i-amd64-signed amd64 1.187.3+2.06-2ubuntu14.1 [1,381 kB]  
Get:210 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 grub-efi-amd64-bin amd64 2.06-2ubuntu14.1 [1,591 kB]  
Get:211 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 ipp-usb amd64 0.9.22-1ubuntu0.22.10.1 [2,050 kB]  
Get:212 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libssh-4 amd64 0.9.6-2ubuntu0.22.10.1 [182 kB]  
Get:213 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libcurl3-gnutls amd64 7.85.0-1ubuntu0.6 [290 kB]  
Get:214 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libcurl4 amd64 7.85.0-1ubuntu0.6 [295 kB]  
Get:215 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libgdk-pixbuf2.0-bin amd64 2.42.9+dfsg-1ubuntu1 [13.9 kB]  
Get:216 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libinput-bin amd64 1.21.0-1ubuntu1 [19.3 kB]  
Get:217 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libinput10 amd64 1.21.0-1ubuntu1 [132 kB]  
Get:218 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libksba8 amd64 1.6.0-3ubuntu1.1 [119 kB]  
Get:219 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libldap-common all 2.5.14+dfsg-0ubuntu0.22.10.2 [19.9 kB]  
Get:220 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libldb2 amd64 2:2.5.3+samba4.16.8-0ubuntu1.2 [152 kB]  
34% [Waiting for headers] 1,098 kB/s 9min 49s  
s-5.19.0-41-generic
```



```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
/etc/kernel/postinst.d/zz-update-grub:  
Sourcing file `/etc/default/grub'  
Sourcing file `/etc/default/grub.d/init-select.cfg'  
Generating grub configuration file ...  
Found linux image: /boot/vmlinuz-5.19.0-46-generic  
Found initrd image: /boot/initrd.img-5.19.0-46-generic  
Found linux image: /boot/vmlinuz-5.19.0-21-generic  
Found initrd image: /boot/initrd.img-5.19.0-21-generic  
Mentest86+ needs a 16-bit boot, that is not available on EFI, exiting  
Warning: os-prober will be executed to detect other bootable partitions.  
Its output will be used to detect bootable binaries on them and create new boot  
entries.  
Found Windows Boot Manager on /dev/nvme0n1p1@EFI/Microsoft/Boot/bootmgfw.efi  
Adding boot menu entry for UEFI Firmware Settings ...  
done  
Processing triggers for ca-certificates (20230311ubuntu0.22.10.1) ...  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ egrep -c '(vmx|svm)' /proc/cpuinfo  
40  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
entries.  
Found Windows Boot Manager on /dev/nvme0n1p1@EFI/Microsoft/Boot/bootmgfw.efi  
Adding boot menu entry for UEFI Firmware Settings ...  
done  
Processing triggers for ca-certificates (20230311ubuntu0.22.10.1) ...  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ egrep -c '(vmx|svm)' /proc/cpuinfo  
40  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo apt-get install qemu-kvm lib  
virt-daemon-system libvirt-clients bridge-utils -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Note, selecting 'qemu-system-x86' instead of 'qemu-kvm'  
The following additional packages will be installed:  
cpu-checker dmideventd ibverbs-providers ipxe-qemu  
ipxe-qemu-256k-compat-efi-roms libaio1 libcacard0 libdaxctl1 libdecor-0-0  
libdecor-0-plugin-1-cairo libdevmapper-event1.02.1 libfdt1 libgfpapi0  
libgfrpc0 libgfxdr0 libglusterfs0 libibverbs1 libiscsi7 liblvm2cmd2.03  
libndctl6 libnss-mymachines libpmem1 libpmemobj1 librados2 librbdl1
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
amd64 8.6.0-0ubuntu3.2 [1,770 kB]  
Get:36 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
clients amd64 8.6.0-0ubuntu3.2 [441 kB]  
Get:37 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon-driver-qemu amd64 8.6.0-0ubuntu3.2 [759 kB]  
Get:38 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon amd64 8.6.0-0ubuntu3.2 [438 kB]  
Get:39 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon-config-network all 8.6.0-0ubuntu3.2 [10.9 kB]  
Get:40 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon-config-nwfilter all 8.6.0-0ubuntu3.2 [13.8 kB]  
Get:41 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 systemd-  
container amd64 251.4-1ubuntu7.3 [400 kB]  
Get:42 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon-systemd all 8.6.0-0ubuntu3.2 [75.6 kB]  
Get:43 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libvirt-  
daemon-system amd64 8.6.0-0ubuntu3.2 [52.1 kB]  
Get:44 http://old-releases.ubuntu.com/ubuntu kinetic-updates/main amd64 libxml2-  
utils amd64 2.9.14+dfsg-1ubuntu0.2 [39.5 kB]  
Get:45 http://old-releases.ubuntu.com/ubuntu kinetic/main amd64 mdevctl amd64 1.  
2.0-1ubuntu1 [706 kB]  
Get:46 http://old-releases.ubuntu.com/ubuntu kinetic/main amd64 libfdt1 amd64 1.  
6.1-2ubuntu1 [19.0 kB]  
51% [Waiting for headers] 713 kB/s 33s
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
Setting up libvirt-daemon dnsmasq configuration.  
Setting up qemu-block-extra (1:7.0+dfsg-7ubuntu2.6) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/run-qemu.mount → /li  
b/systemd/system/run-qemu.mount.  
Setting up liblvm2cmd2.03:amd64 (2.03.16-1ubuntu1) ...  
Setting up dmeventd (2:1.02.185-1ubuntu1) ...  
Created symlink /etc/systemd/system/sockets.target.wants/dm-event.socket → /lib/  
systemd/system/dm-event.socket.  
dm-event.service is a disabled or a static unit, not starting it.  
Setting up lvm2 (2.03.16-1ubuntu1) ...  
update-initramfs: deferring update (trigger activated)  
Created symlink /etc/systemd/system/sysinit.target.wants/blk-availability.servic  
e → /lib/systemd/system/blk-availability.service.  
Created symlink /etc/systemd/system/sysinit.target.wants/lvm2-monitor.service →  
/lib/systemd/system/lvm2-monitor.service.  
Created symlink /etc/systemd/system/sysinit.target.wants/lvm2-lvmpolld.socket →  
/lib/systemd/system/lvm2-lvmpolld.socket.  
Processing triggers for dbus (1.14.0-2ubuntu3) ...  
Processing triggers for initramfs-tools (0.140ubuntu17) ...  
update-initramfs: Generating /boot/initrd.img-5.19.0-46-generic  
Processing triggers for hicolor-icon-theme (0.17-2) ...  
Processing triggers for libc-bin (2.36-0ubuntu4) ...  
Processing triggers for man-db (2.10.2-2) ...  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~
Processing triggers for dbus (1.14.0-2ubuntu3) ...
Processing triggers for initramfs-tools (0.140ubuntu17) ...
update-initramfs: Generating /boot/initrd.img-5.19.0-46-generic
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for libc-bin (2.36-0ubuntu4) ...
Processing triggers for man-db (2.10.2-2) ...
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo systemctl enable libvirtd
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo systemctl start libvirtd
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo systemctl status libvirtd
● libvirtd.service - Virtualization daemon
   Loaded: loaded (/lib/systemd/system/libvirtd.service; enabled; preset: ena
   Active: active (running) since Fri 2024-01-19 11:42:38 IST; 2min 33s ago
   TriggeredBy: ● libvirtd-ro.socket
                 ● libvirtd-admin.socket
                 ● libvirtd.socket
   Docs: man:libvirtd(8)
          https://libvirt.org
   Main PID: 43760 (libvirtd)
     Tasks: 21 (limit: 32768)
    Memory: 8.8M
       CPU: 185ms
    CGroup: /system.slice/libvirtd.service
            └─43760 /usr/sbin/libvirtd
              └─43899 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/def>
```

```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~
● libvirtd.socket
● libvirtd-ro.socket
   Docs: man:libvirtd(8)
          https://libvirt.org
   Main PID: 43760 (libvirtd)
     Tasks: 21 (limit: 32768)
    Memory: 8.8M
       CPU: 185ms
    CGroup: /system.slice/libvirtd.service
            └─43760 /usr/sbin/libvirtd
              └─43899 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/def>
              └─43900 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/def>

Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC systemd[1]: Started Virt>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: started,>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: compile >
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq-dhcp[43899]: DHC>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq-dhcp[43899]: DHC>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: reading >

kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo kvm-ok
INFO: /dev/kvm exists
KVM acceleration can be used
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```

```
c unit, not starting it.
(1.16)
rbd
c/d
Note, selecting 'qemu-system-x86' instead of 'qemu-kvm'
qemu-system-x86 is already the newest version (1:7.0+dfsg-7ubuntu2.6).
libvirt-daemon-system is already the newest version (8.6.0-0ubuntu3.2).
libvirt-clients is already the newest version (8.6.0-0ubuntu3.2).
bridge-utils is already the newest version (1.7-1ubuntu3).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo adduser Meeet
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo adduser meeeet
Adding user `meeeet' ...
Adding new group `meeeet' (1003) ...
Adding new user `meeeet' (1003) with group `meeeet' ...
Creating home directory `/home/meeeet' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a diction
ary word
### Retype new password:
passwd: password updated successfully
Changing the user information for meeeet
Enter the new value, or press ENTER for the default
Full Name []: 
```

```
c unit, not starting it.
(1.16)
rbd
c/d
Adding new user `meeeet' (1003) with group `meeeet' ...
Creating home directory `/home/meeeet' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a diction
ary word
Retype new password:
passwd: password updated successfully
Changing the user information for meeeet
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] n
Changing the user information for meeeet
Enter the new value, or press ENTER for the default
Full Name []: Meet Gala
Room Number []: 1
Work Phone []: 1234567890
Home Phone []: 0987654321
Other []:
Is the information correct? [Y/n] 
```



```
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word  
Retype new password:  
passwd: password updated successfully  
Changing the user information for mеееет  
lib: Enter the new value, or press ENTER for the default  
Full Name []:  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] n  
Changing the user information for mеееет  
lib: Enter the new value, or press ENTER for the default  
Full Name []: Meet Gala  
Room Number []: 1  
Work Phone []: 1234567890  
Home Phone []: 0987654321  
Other []:  
Is the information correct? [Y/n] y  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo adduser mеееет libvirt  
Adding user 'mеееет' to group 'libvirt' ...  
Done.  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$  
id /etc/passwd  
id /var/lib/libvirt/dnsmasq/default.add>  
id /var/lib/libvirt/dnsmasq/default>
```

```
libvirt  
on  
libvirtd.service; enabled; vendor pres  
2023  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~  
passwd: password updated successfully  
Changing the user information for mеееет  
lib: Enter the new value, or press ENTER for the default  
Full Name []:  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] n  
Changing the user information for mеееет  
lib: Enter the new value, or press ENTER for the default  
Full Name []: Meet Gala  
Room Number []: 1  
Work Phone []: 1234567890  
Home Phone []: 0987654321  
Other []:  
Is the information correct? [Y/n] y  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo adduser mеееет libvirt  
Adding user 'mеееет' to group 'libvirt' ...  
Done.  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo adduser mеееет kvm  
Adding user 'mеееет' to group 'kvm' ...  
Done.  
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```

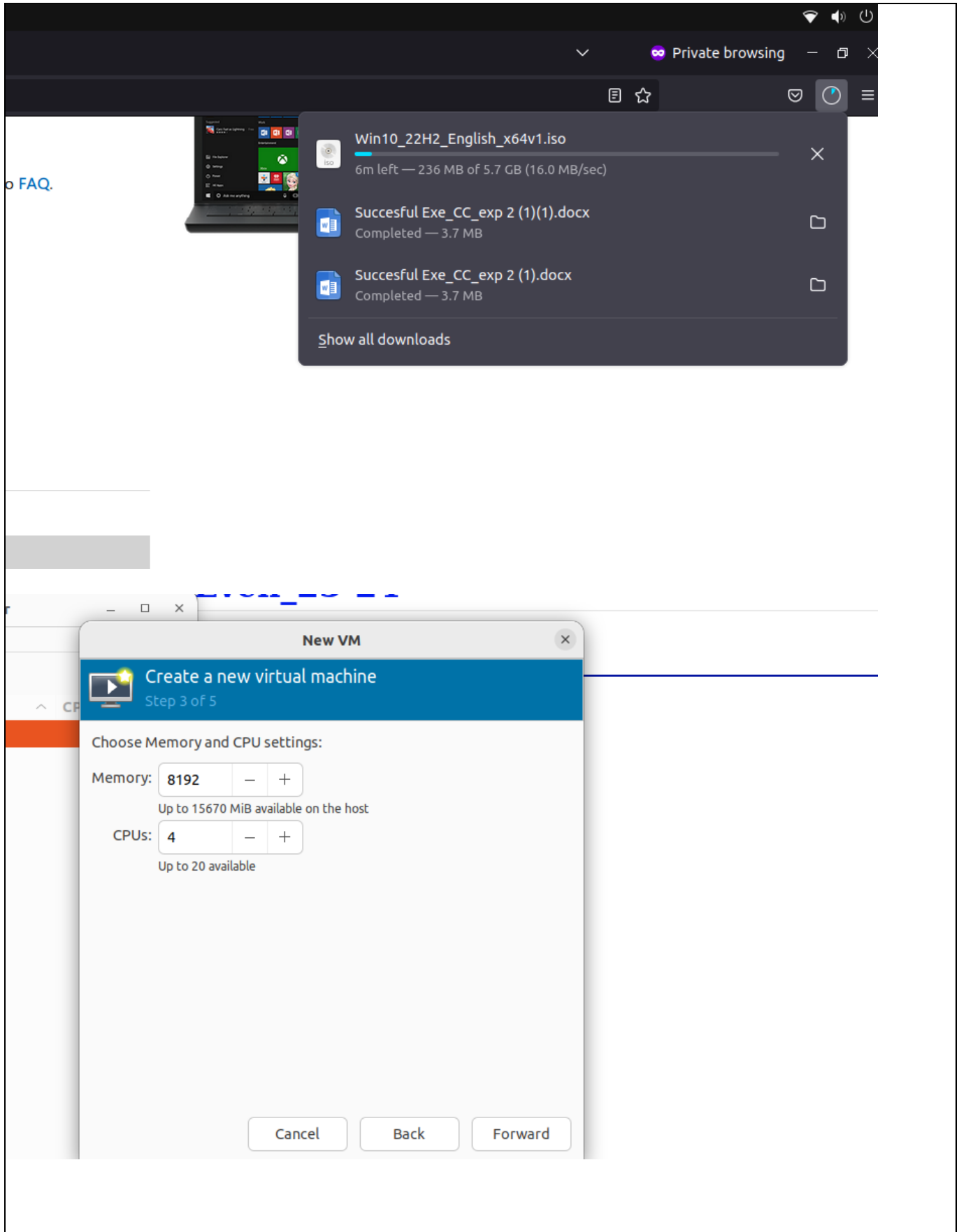
```
...-2.0 gir1.2-libosinfo-1.0
...entglib-2.0 gir1.2-spiceclientgtk-3.0
...bgovirt-common libgovirt2

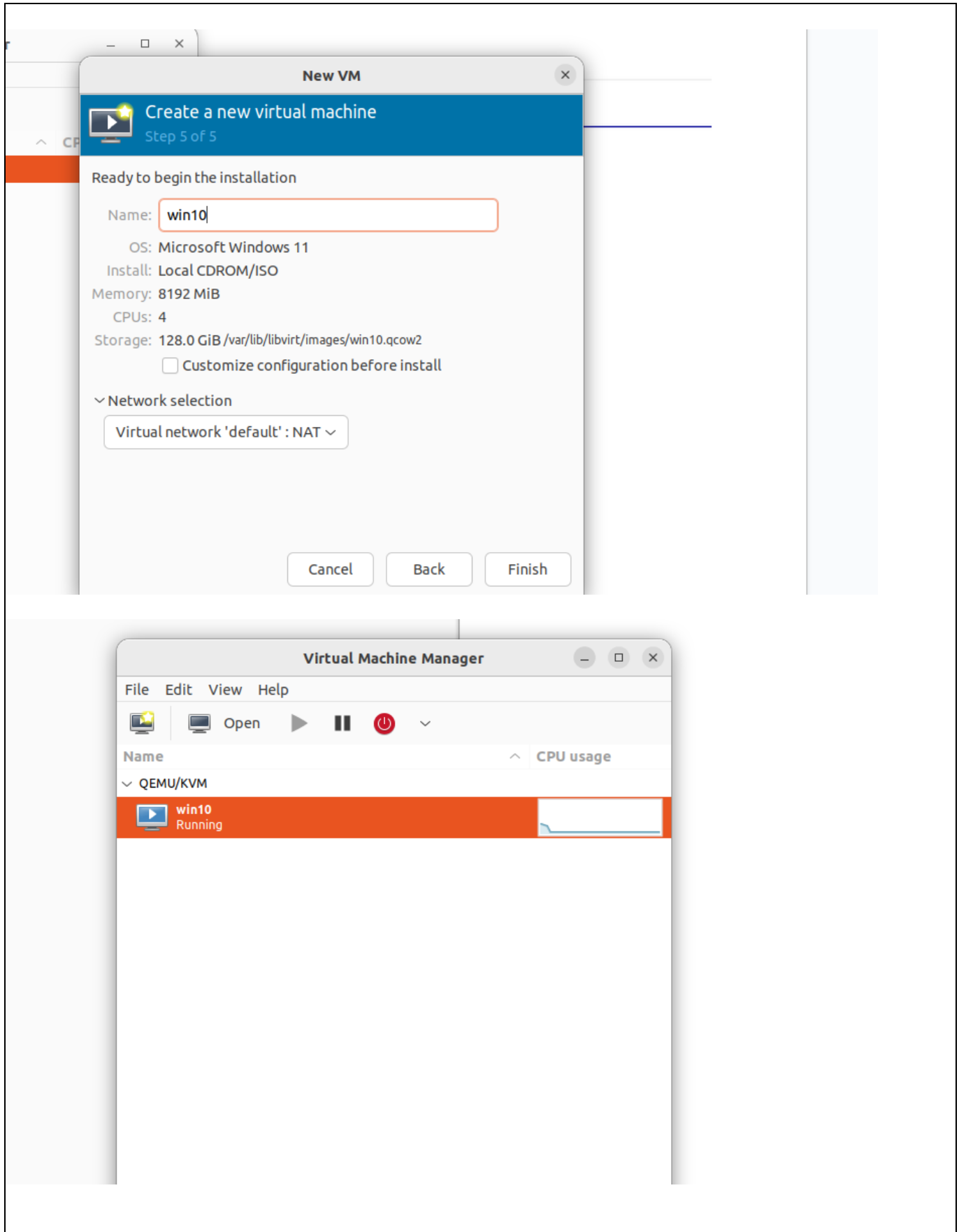
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~
● libvirtd.socket
● libvirtd-ro.socket
Docs: man:libvirtd(8)
      https://libvirt.org
Main PID: 43760 (libvirtd)
Tasks: 21 (limit: 32768)
Memory: 8.8M
CPU: 196ms
CGroup: /system.slice/libvirtd.service
├─43760 /usr/sbin/libvirtd
├─43899 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/def>
└─43900 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/def>

Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC systemd[1]: Started Virt>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: started,>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: compile >
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq-dhcp[43899]: DHC>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq-dhcp[43899]: DHC>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: reading >
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: using na>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: read /et>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq[43899]: read /va>
Jan 19 11:42:38 kjsce-HP-Elite-Tower-600-G9-Desktop-PC dnsmasq-dhcp[43899]: rea>
lines 5-27/27 (END)
```

```
...task space will be used.

kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC: ~
Setting up gir1.2-libvirt-glib-1.0:amd64 (4.0.0-2) ...
Setting up libgtksourceview-4-0:amd64 (4.8.3-1ubuntu1) ...
Setting up libosinfo-1.0-0:amd64 (1.10.0-2) ...
Setting up va-driver-all:amd64 (2.15.0-1) ...
Setting up python3-requests (2.27.1+dfsg-1ubuntu2.1) ...
Setting up gir1.2-gtk-vnc-2.0:amd64 (1.3.1-1) ...
Setting up libspice-client-gtk-3.0-5:amd64 (0.41-2) ...
Setting up gir1.2-spiceclientgtk-3.0:amd64 (0.41-2) ...
Setting up virt-viewer (11.0-2ubuntu2) ...
Setting up gir1.2-libosinfo-1.0:amd64 (1.10.0-2) ...
Setting up gir1.2-gtksource-4:amd64 (4.8.3-1ubuntu1) ...
Setting up virtinst (1:4.1.0-1) ...
Setting up virt-manager (1:4.1.0-1) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu4) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libglib2.0-0:amd64 (2.74.3-0ubuntu1.2) ...
Processing triggers for libc-bin (2.36-0ubuntu4) ...
Processing triggers for man-db (2.10.2-2) ...
Processing triggers for shared-mime-info (2.2-1) ...
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$ sudo virt-manager
kjsce@kjsce-HP-Elite-Tower-600-G9-Desktop-PC:~$
```





Conclusion: Successfully performed Virtualization by installing vbox on windows and kvm on linux .

