II) KVM Setup Steps: Open Terminal



1. Update the System

sudo apt update && sudo apt upgrade -y

- 2. Check if Virtualization is Enabled: sudo grep -c "svm\\vmx" /proc/cpuinfo
- 3. Verify KVM Virtualization

Check if KVM virtualization is enabled by running command: **kvm-ok** 

If the kvm-ok command is not found, install the CPU checker tool:

sudo apt install cpu-checker

then type kvm-ok

**Output should include:** 

INFO: /dev/kvm exists

KVM acceleration can be used.

4. Install KVM and Required Packages

sudo apt install qemu-kvm virt-manager libvirt-daemon-system libvirt-clients bridge-utils -y

5. Enable the Virtualization Daemon

Start and enable the libvirt daemon:

sudo systemctl enable libvirtd

sudo systemctl start libvirtd

#### 6. Check the Status of the Libvirt Daemon

### Verify that the daemon is running:

## sudo systemctl status libvirtd

7. Add Your User to KVM and Libvirt Groups

Replace your-username with your actual username and run the following commands:

### sudo usermod -aG kvm your-username

## sudo usermod -aG libvirt your-username

```
cloud@cloud-VMware-Virtual-Platforn:-/DesktopS sudo apt update && sudo apt upgrade -y
sudo] password for cloud:
itt:1 http://security.ubuntu.com/ubuntu noble-security InRelease
itt:2 http://in.archive.ubuntu.com/ubuntu noble-inRelease
itt:2 http://in.archive.ubuntu.com/ubuntu noble-inRelease
itt:3 http://in.archive.ubuntu.com/ubuntu noble-inpdates InRelease
itt:4 http://in.archive.ubuntu.com/ubuntu noble-updates/nation and64 Packages [783 kB]
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use 'sude and autorenove' to renove it.
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1 NiGO: For note detailed results, you should run this as root
1 NiMT: sud Jury Spin/Now.ck
1 Longic Lond / Whener-Virtual-Platform: / Desktop'S sude apt install genu-kvm virt-manager libvirt-daemon-system libvirt-clients bridge-utils
Reading package lists... Done
8 Uilding dependency tree... Done
9 U
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The following package was automatically installed and is no longer required:
    python3-netifaces
    Use 'sudo apt autoremove' to remove it.
    0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
    cloud@cloud/Mmarre-Virual-Platform:/Desktop$ kvm-ok
    INFO: Your CPU does not support kVM extensions
    INFO: For more deletied results, you should run this as root
    cloud@cloud/Wmarre-Virual-Platform:/Desktop$ sudo apt install genu-kvm virt-manager libvirt-deenon-system libvirt-clients bridge-utils
    Reading package lists... Done
Building dependency tree... Done
Building dependency tree... Done
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## 8. Log Out and Re-login

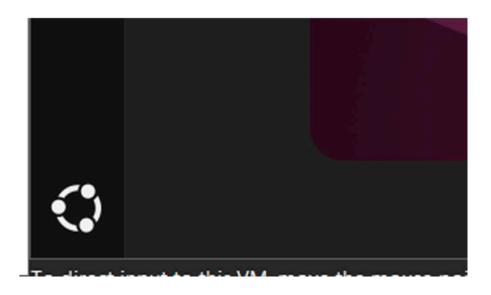
Log out from your system and log back in to apply group changes.

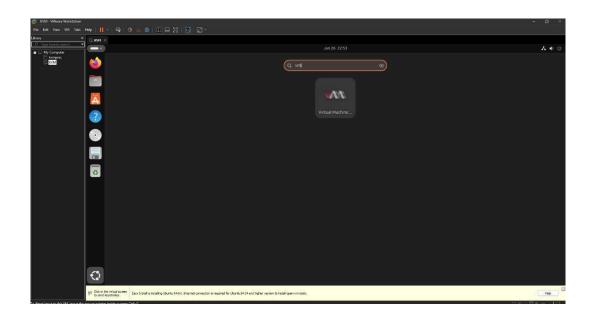
# 9. Run KVM Virtual Machine Manager

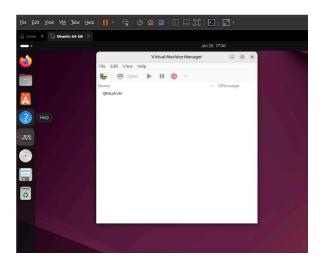
Search for "Virtual Machine Manager" in your system applications and launch it.

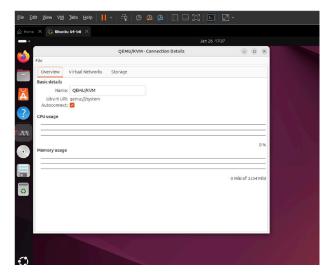
## 10. Prepare to Create Virtual Machines

In Virtual Machine Manager, click Create a New Virtual Machine to begin setting up virtual environments.

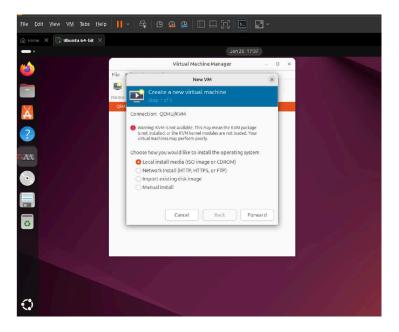




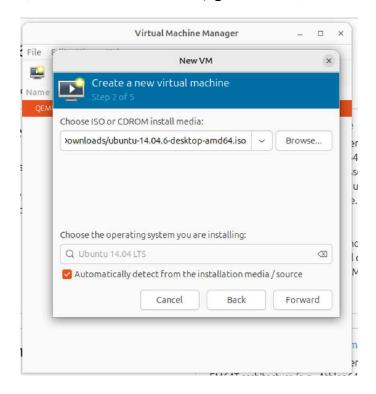




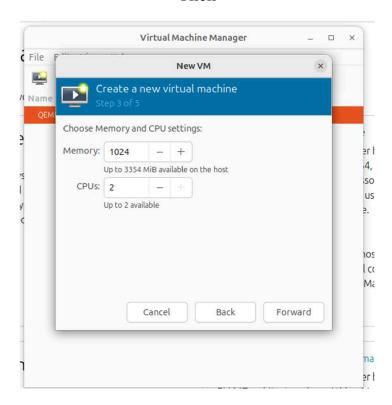
# Now we can create new virtual machine from File>Create New Virtual Machine



Then ,Select the os to install (eg/:windows, ubuntu etc)



# Then



# Then

