

**NETWORKING & SYSTEM ADMINISTRATION LAB****Name: Manya Madhu****Roll No: 17****Batch: S2 RMCA B****Date: 06-06-2022****Aim**

Introduction to Hypervisors and VMs: KVM installation and commands.

**Procedure**

For the Ubuntu system, all packages required to run KVM are available on official upstream repositories. Install them using the commands:

```
sudo apt update
```

```
apt-get install qemu qemu-kvm libvirt-bin bridge-utils virt-manager virtviewer-y
```

**Create Virtual Machine**

- You can create virtual machine using virt-manager utility. Run the following command to start the virt-manager:

```
sudo virt-manager
```

```
virsh help virsh  
help
```

```
virsh help list Sudo
```

```
virsh nodeinfo
```

```
Virsh start vm
```

```
virsh start
```

```
virsh start testvm1
```

```
mca@UI7:~$ sudo apt install qemu-kvm libvirt-daemon-system libvirt-clients bridge-utils virt-manager
[sudo] password for mca:
Reading package lists... Done
Building dependency tree
Reading state information... Done
bridge-utils is already the newest version (1.5-15ubuntu1).
libvirt-clients is already the newest version (4.0.0-1ubuntu8).
libvirt-daemon-system is already the newest version (4.0.0-1ubuntu8).
qemu-kvm is already the newest version (1:2.11+dfsg-1ubuntu7.4).
The following additional packages will be installed:
  gir1.2-appindicator3-0.1 gir1.2-gtk-vnc-2.0 gir1.2-libosinfo-1.0 gir1.2-spiceclientglib-2.0
  gir1.2-spiceclientgtk-3.0 libgovirt-common libgovirt2 libgtk-vnc-2.0-0 libgvnc-1.0-0 libosinfo-1.0-0 libphodav-2.0-0 libphodav-2.0-common
  libspice-client-glib-2.0-8 libspice-client-gtk-3.0-5 libusbredirhost1 libvirt-glib-1.0-0 osinfo-db python-dbus python-gi python-gi-cairo
  python-ipaddr python-libvirt python-libxml2 spice-client-glib-usb-acl-helper virt-viewer virtinst
Suggested packages:
  libosinfo-l10n gstreamer1.0-plugins-bad gstreamer1.0-libav python-dbus-dbg python-doc ssh-askpass python-guestfs
The following NEW packages will be installed:
  gir1.2-appindicator3-0.1 gir1.2-gtk-vnc-2.0 gir1.2-libosinfo-1.0 gir1.2-libvirt-glib-1.0 gir1.2-spiceclientglib-2.0
  gir1.2-spiceclientgtk-3.0 libgovirt-common libgovirt2 libgtk-vnc-2.0-0 libgvnc-1.0-0 libosinfo-1.0-0 libphodav-2.0-0 libphodav-2.0-common
  libspice-client-glib-2.0-8 libspice-client-gtk-3.0-5 libusbredirhost1 libvirt-glib-1.0-0 osinfo-db python-dbus python-gi python-gi-cairo
  python-ipaddr python-libvirt python-libxml2 spice-client-glib-usb-acl-helper virt-manager virt-viewer virtinst
0 upgraded, 28 newly installed, 0 to remove and 7 not upgraded.
Need to get 2,892 kB of archives.
After this operation, 18.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

```
mca@U17:~$ sudo virt-manager
mca@U17:~$
```







