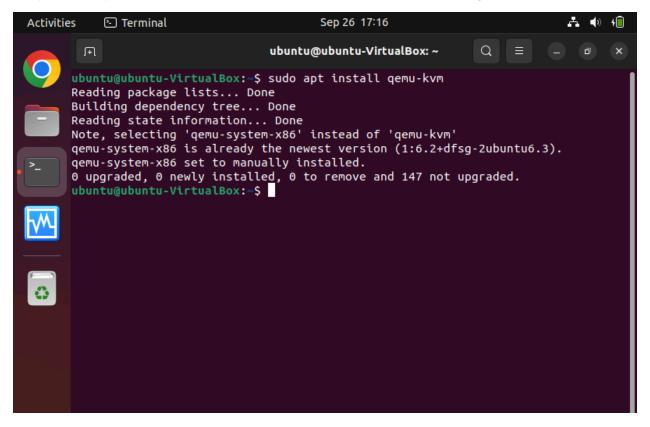
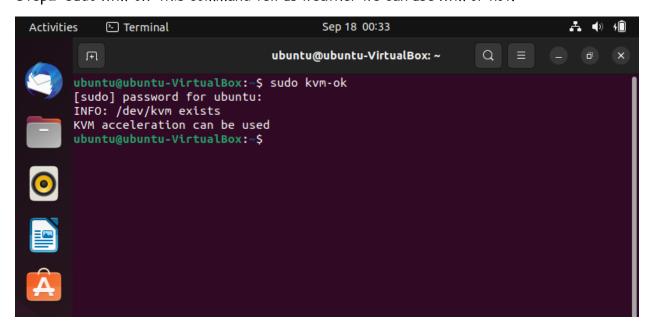
Name: Hitendra Sisodia Lab 5: Ubuntu Commands And Installing KVM

Sap id: 500091910

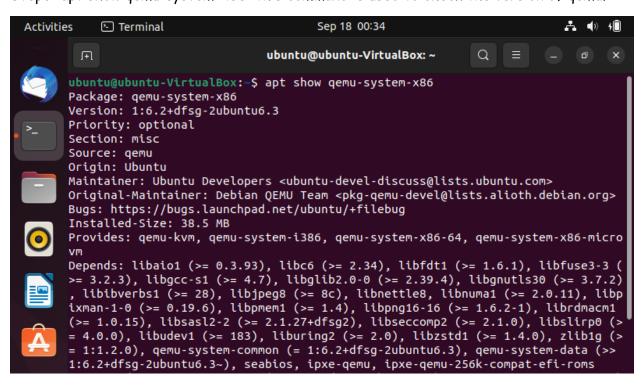
Step1: sudo apt install gemu-kvm: This command is used for installing kvm.



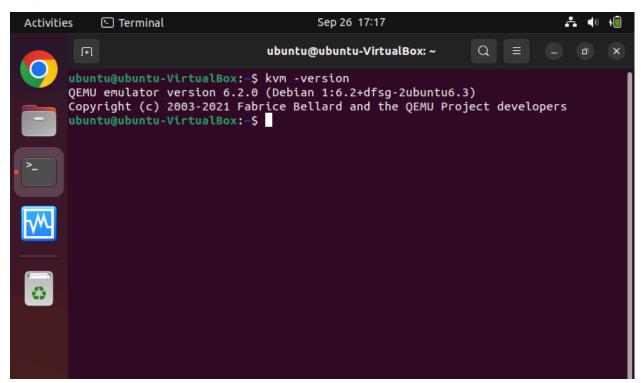
Step2: sudo kvm-ok: this command tell us weather we can use kvm or not.



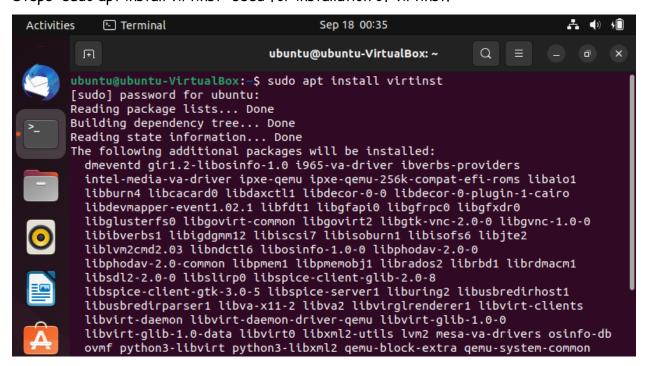
Step3: apt show gemu-system-x86: this command is used to check the version of gemu.



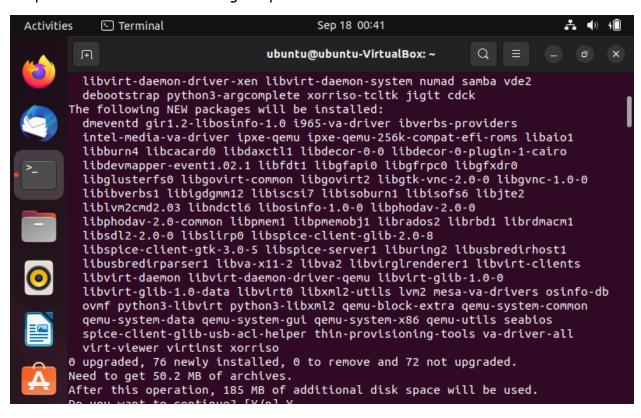
Step4: kvm -version: This command is used to check version of kvm installed in previous steps.



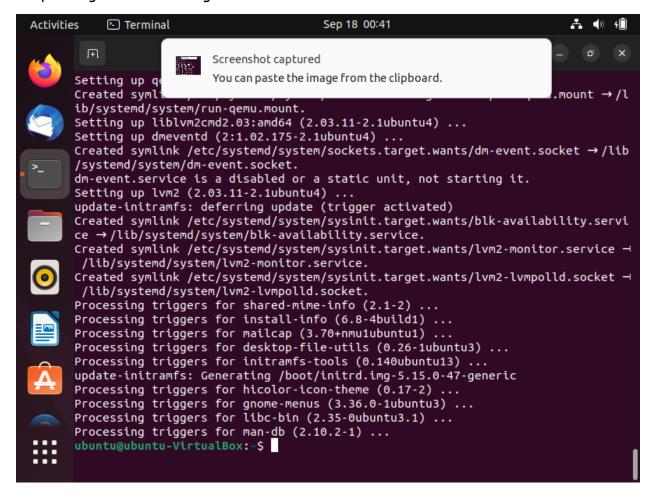
Step5: sudo apt install virtinst: Used for installation of virtinst.



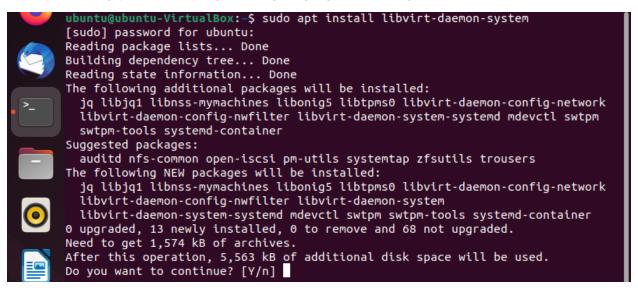
Step6: Wait till installation being completed.



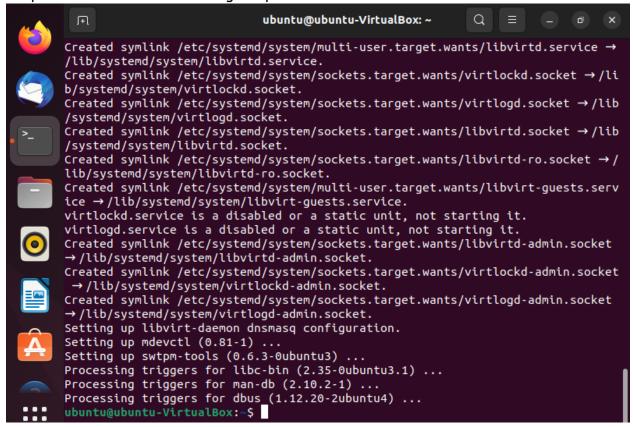
Step7: Progress bar showing the installation of virtinst.



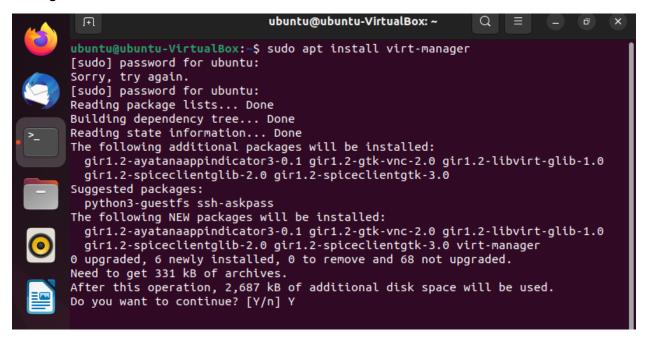
Step8: sudo apt install libvirt-daemon-system: Used for installation of libvirt. libvirt is a library, allowing you to use programming languages to configure virtual machines



Step9: Wait till installation being completed.



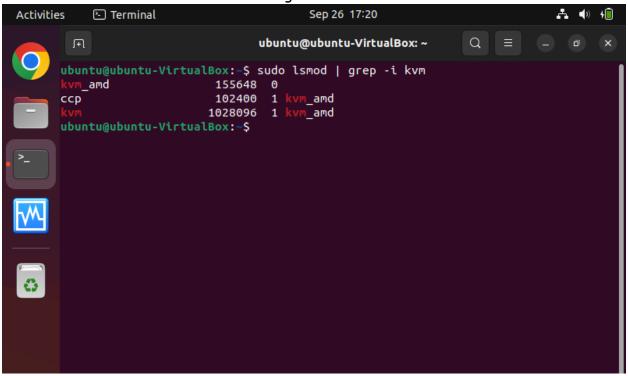
Step10: sudo apt install virt-manager: used for installation of virt-manager. virt-manager provides an easy-to-use GUI similar to VMware/virtual box for managing virtual machines through libvirt.



Step11: Wait till installation being completed.

```
Setting up libctf0:amd64 (2.38-3ubuntu1) ...
Setting up libqt5network5:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up libgcc-11-dev:amd64 (11.2.0-19ubuntu1) ...
Setting up libc6-dev:amd64 (2.35-0ubuntu3.1) ...
Setting up binutils-x86-64-linux-gnu (2.38-3ubuntu1) ...
Setting up libqt5gui5:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up libqt5widgets5:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up binutils (2.38-3ubuntu1) ...
Setting up qt5-gtk-platformtheme:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up dpkg-dev (1.21.1ubuntu2.1) ...
Setting up libqt5printsupport5:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up libstdc++-11-dev:amd64 (11.2.0-19ubuntu1) ...
Setting up gcc-11 (11.2.0-19ubuntu1) ...
Setting up libqt5opengl5:amd64 (5.15.3+dfsg-2ubuntu0.2) ...
Setting up libqt5x11extras5:amd64 (5.15.3-1) ...
Setting up g++-11 (11.2.0-19ubuntu1) ...
Setting up libqt5svg5:amd64 (5.15.3-1) ...
Setting up gcc (4:11.2.0-1ubuntu1) ...
Setting up dkms (2.8.7-2ubuntu2) ...
Setting up g++ (4:11.2.0-1ubuntu1) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto m
Setting up build-essential (12.9ubuntu3) ...
Setting up virtualbox-dkms (6.1.38-dfsg-3~ubuntu1.22.04.1) ...
Loading new virtualbox-6.1.38 DKMS files...
Building for 5.15.0-47-generic
Building initial module for 5.15.0-47-generic
```

Step12: sudo Ismod | grep -i kvm: In case of amd cpu we will get kvm\_amd module. From this command we able to create and manage virtual machines.



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Step13: The \$USER environment variable points to the name of the currently logged-in user. To apply this change, we need to log out and log back again.

