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Subject: - LP-II (Cloud Computing)

PRACTICAL ASSIGNMENT NO: - 02

2. Title: - Installation and Configuration of virtualization using KVM.

1. Installation of KVM on local machine.

Step 1: - First update the repositories.

- sudo apt-get update

Step 2: - Install essential KVM packages with the following command

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

Step 3: - This will start the installation of four KVM packages.
When prompted type Y press **ENTER**, and wait for the installation to finish.

2. Creating a Virtual Machine on Ubuntu 20.04

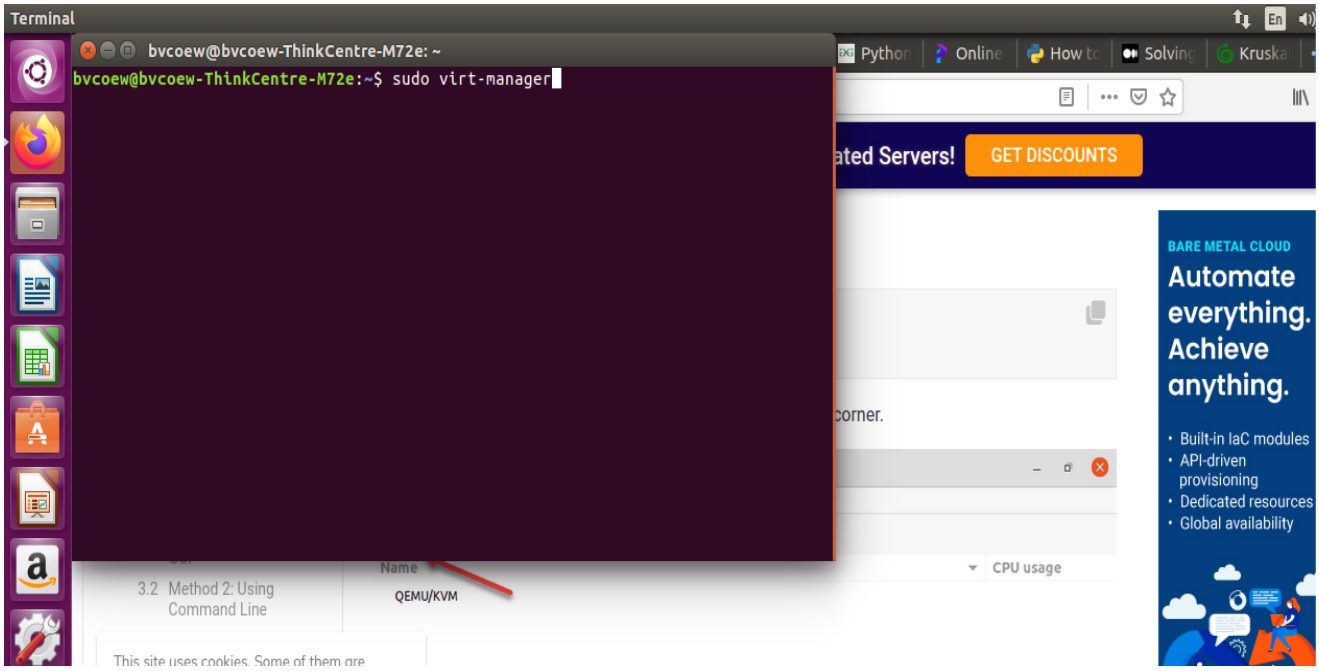
Step 1: - Install virt-manager, a tool for creating and managing VM.

- sudo apt install virt-manager

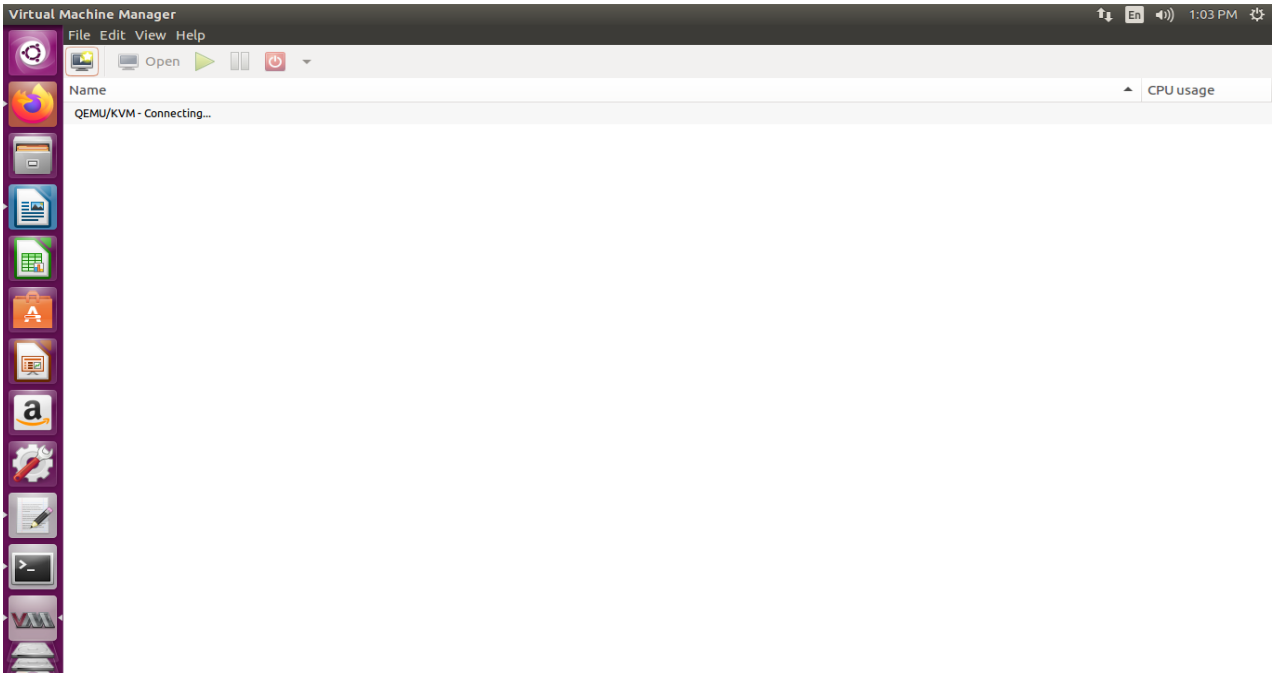
Step 2: - Then Type Y and Press Enter and wait for installation to complete.

Step 3: - Start virt-manager with:

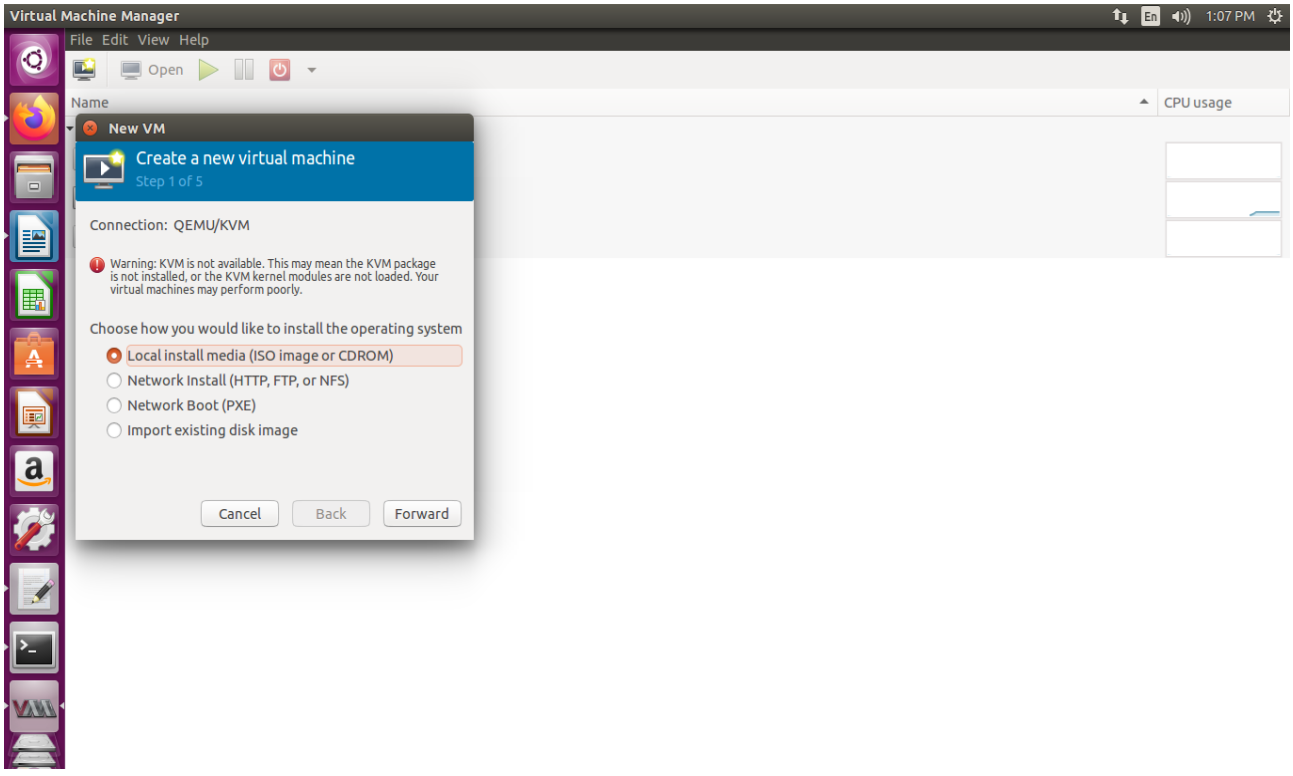
- sudo virt-manager



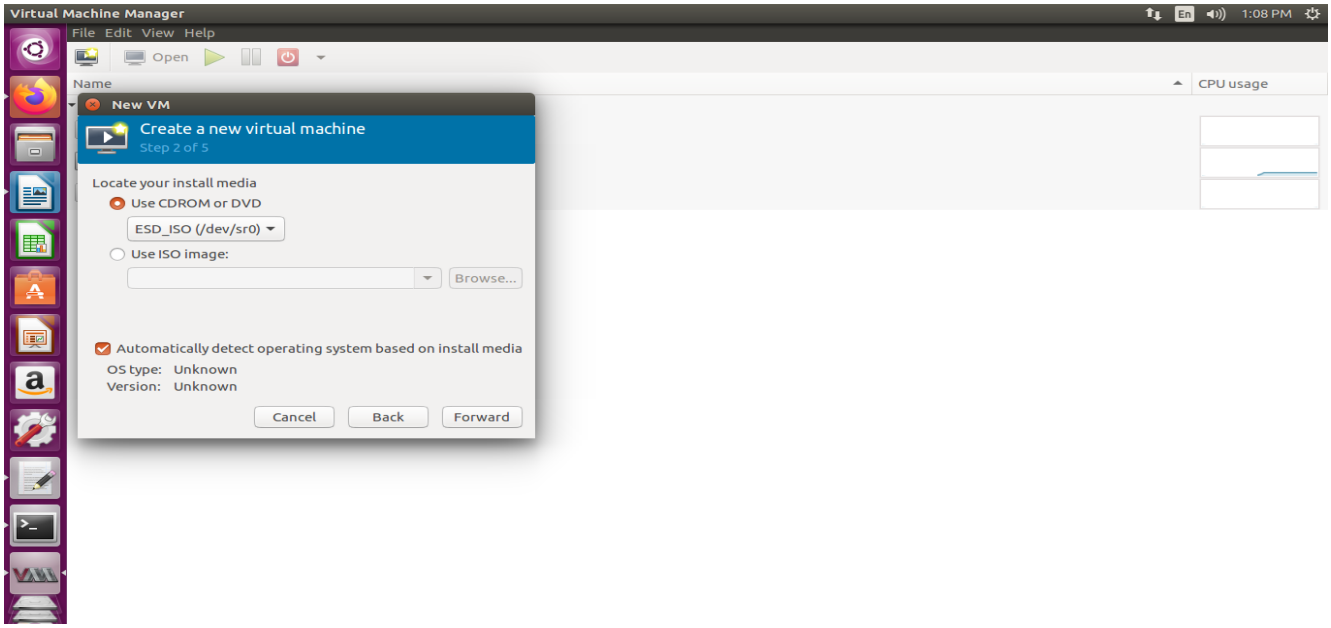
Step 4: - This will open a Window of Virtual Manager.



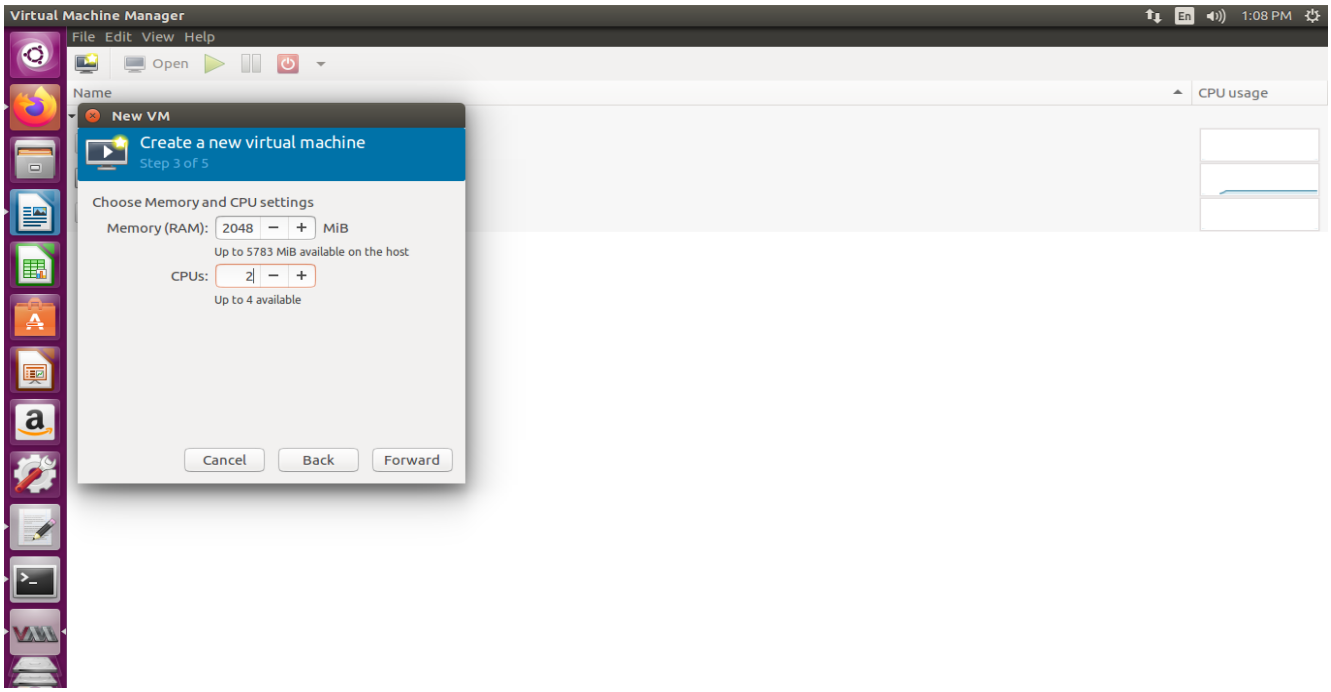
Step 5: - In the first window, click the computer icon in the upper-left corner
Step 6: - In the dialogue box that opens, select the option to install the VM using an ISO image. Then click **Forward**.



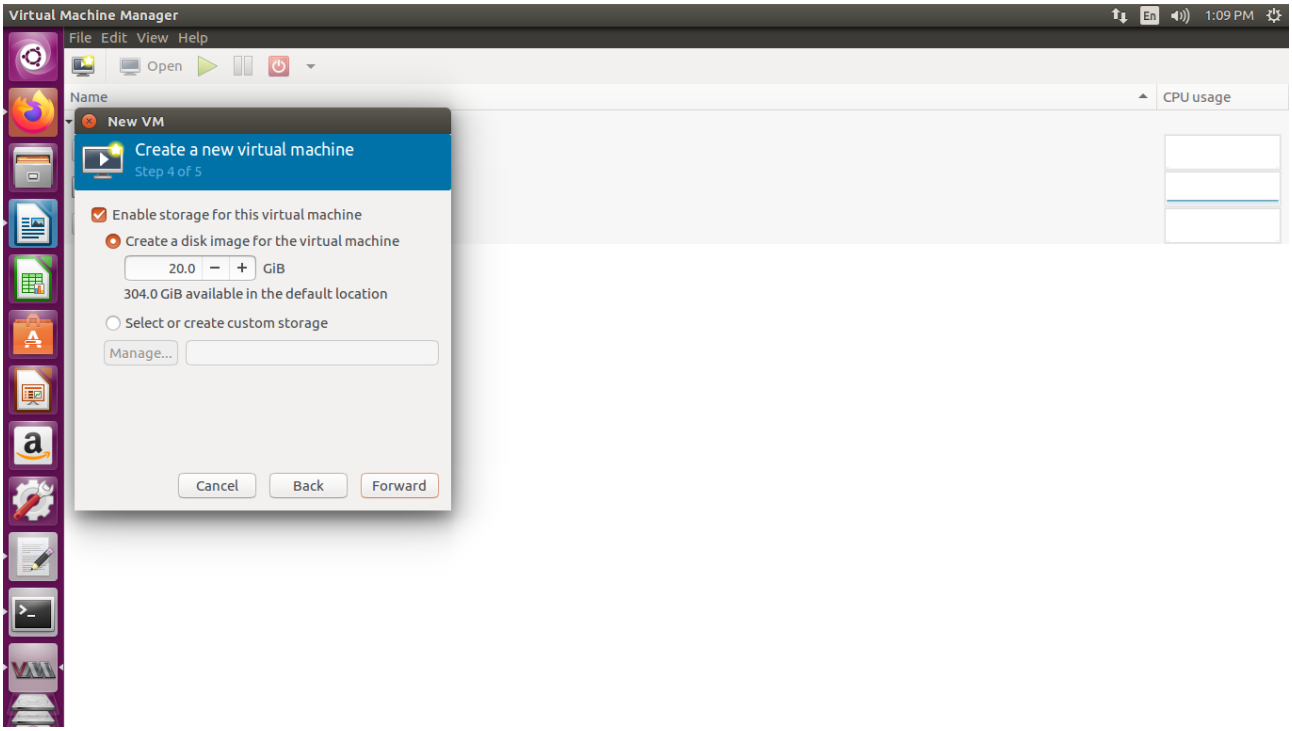
Step 7: - As we are installing the Windows 10 which is on CD-ROM choose first option and click on **FORWARD**



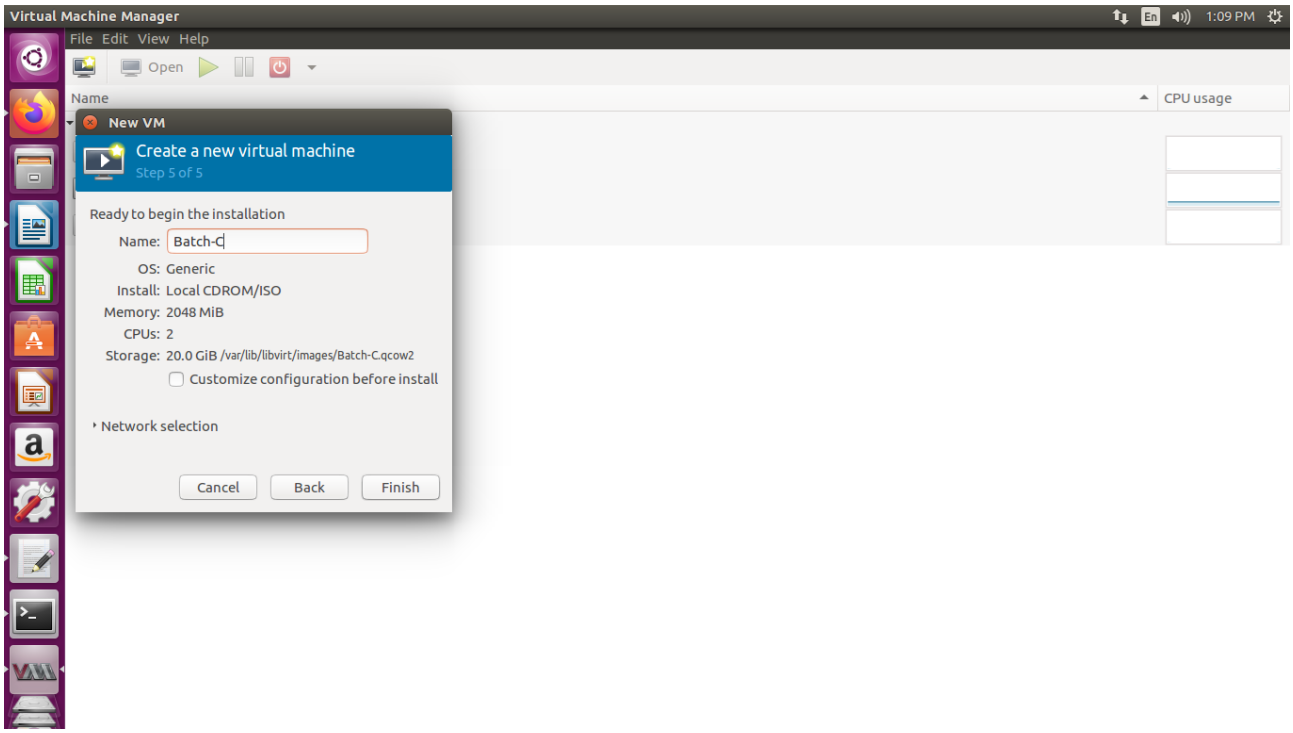
Step 8: - Enter the amount of RAM and the number of CPUs you wish to allocate to the VM and proceed to the next step.



Step 9: - Allocate hard disk space to the VM. Click **Forward** to go to the last step.

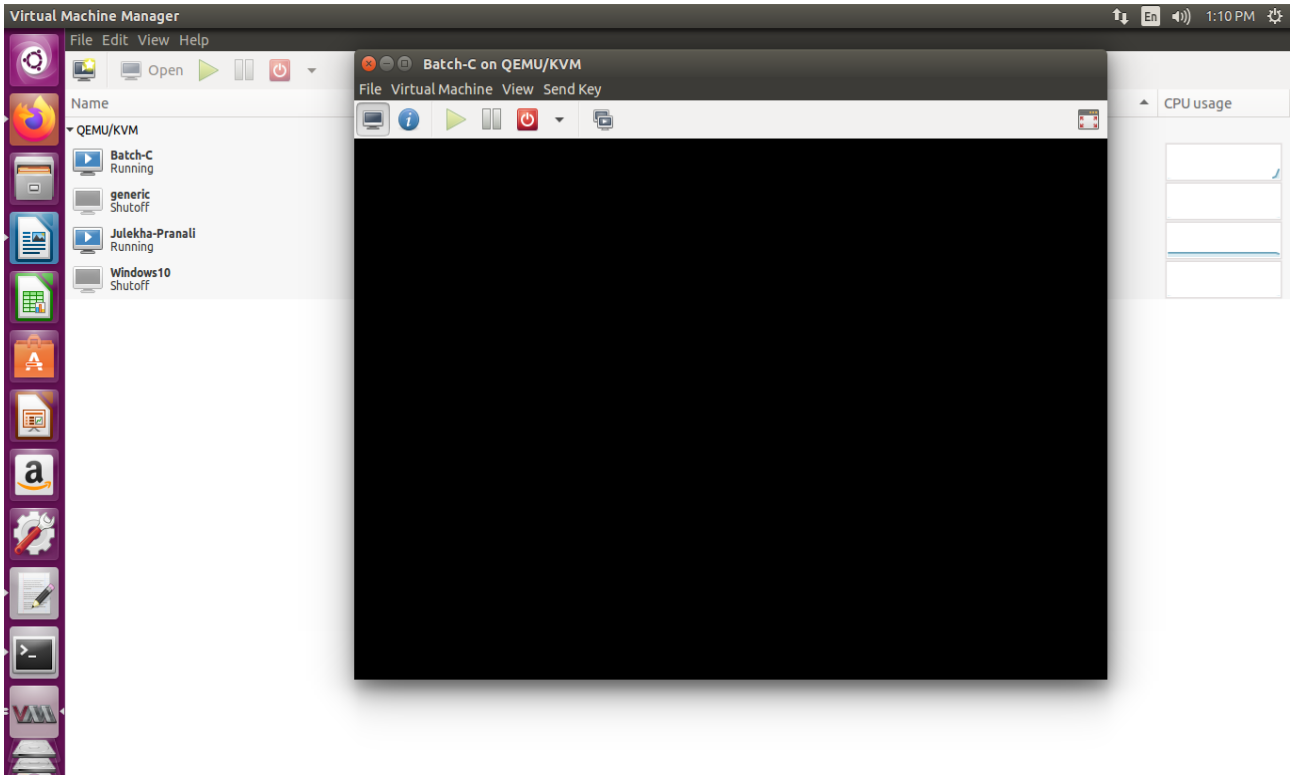


Step 10: - Specify the name for your VM and click **Finish** to complete the setup.



Step 11: - The VM starts automatically, prompting you to start installing the OS that is on the ISO file.

After successful installation of OS, it will show the status as-**Running**



Step 12: - Double Click on the name of your VM to start it. The following screen will display.