Ex No : 8	Implementation of Virtualization using KVM
Date: 06/03/23	

Aim :

To install and configure a kernel based virtual machine .

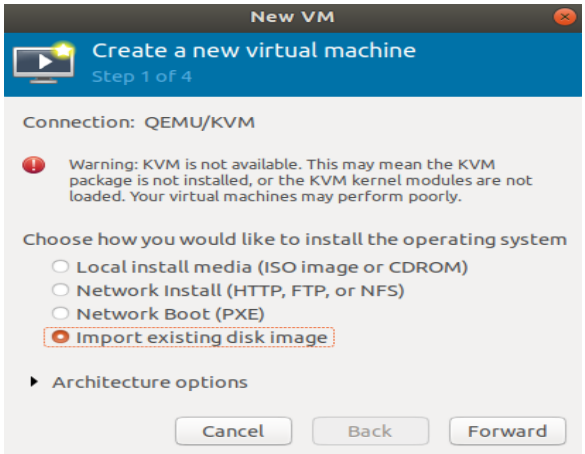
Procedure:

1) Download virtual box and install it in your system,
2) And then create a ubuntu based virtual machine in that virtual box
3) Power on that virtual machine
4) In that VM , Open Terminal
5) Initially , check whether your CPU supports virtualization.
6) After that install all the necessary packages for the KVM.
7) After installation , virtual machine manager will be created.
8) In that create a Cirros based VM
9) After creation finally open that VM

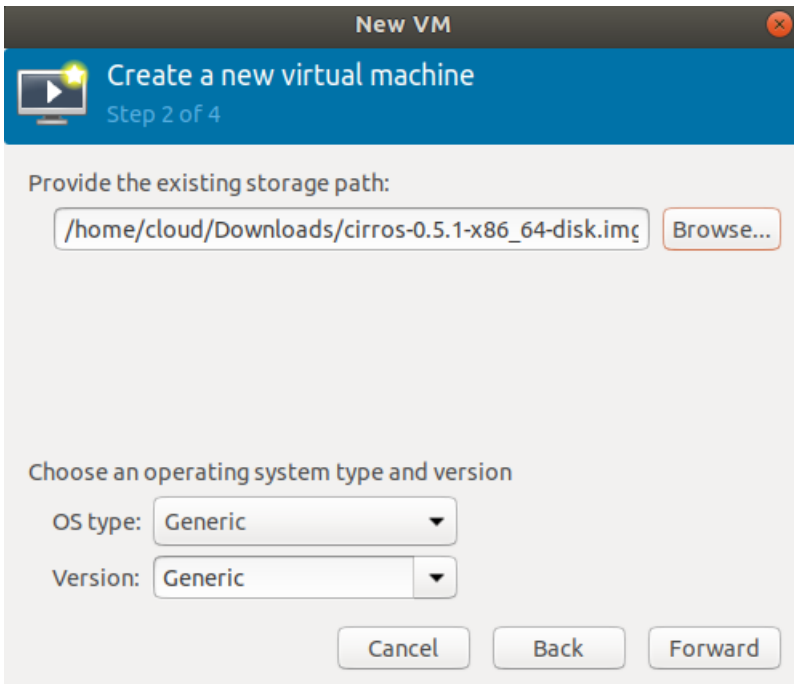
Screenshots:

```
hari@hari-VirtualBox:~$ grep -Eoc '(vmx|svm)' /proc/cpuinfo
4
hari@hari-VirtualBox:~$ sudo apt install qemu-kvm libvirt-bin bridge-utils virt
inst virt-manager
Reading package lists... Done
Building dependency tree
Reading state information... Done
bridge-utils is already the newest version (1.5-15ubuntu1).
libvirt-bin is already the newest version (4.0.0-1ubuntu8.21).
qemu-kvm is already the newest version (1:2.11+dfsg-1ubuntu7.41).
virt-manager is already the newest version (1:1.5.1-0ubuntu1.2).
virtinst is already the newest version (1:1.5.1-0ubuntu1.2).
0 upgraded, 0 newly installed, 0 to remove and 280 not upgraded.
hari@hari-VirtualBox:~$ S
```

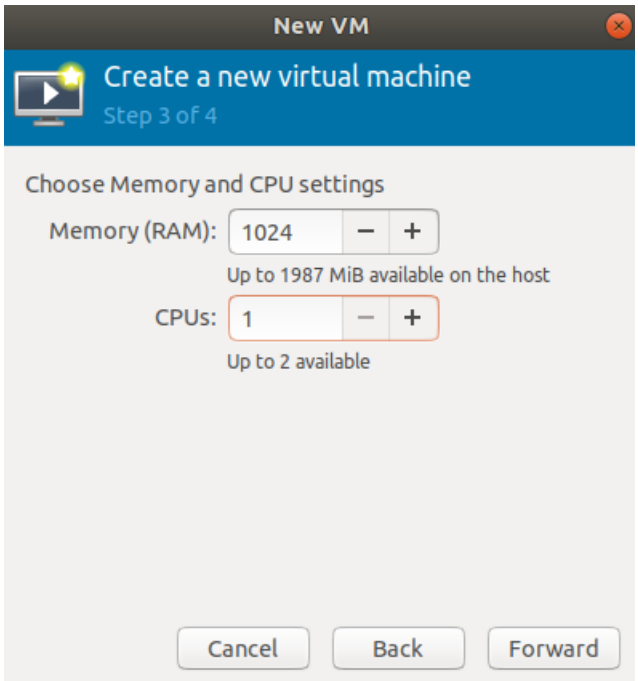
Launch VM from existing disk



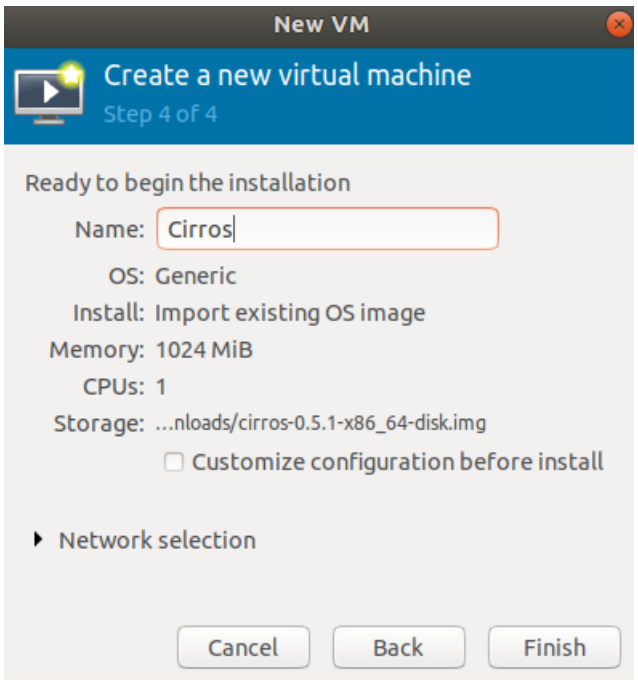
Selecting Image from Local Disk.



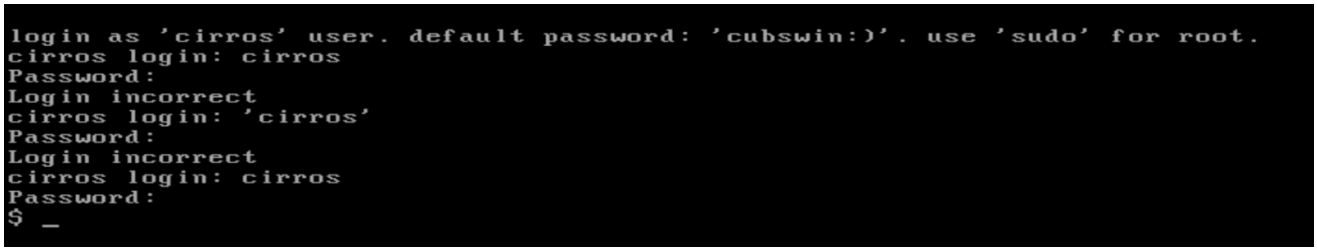
Choosing Memory and CPU



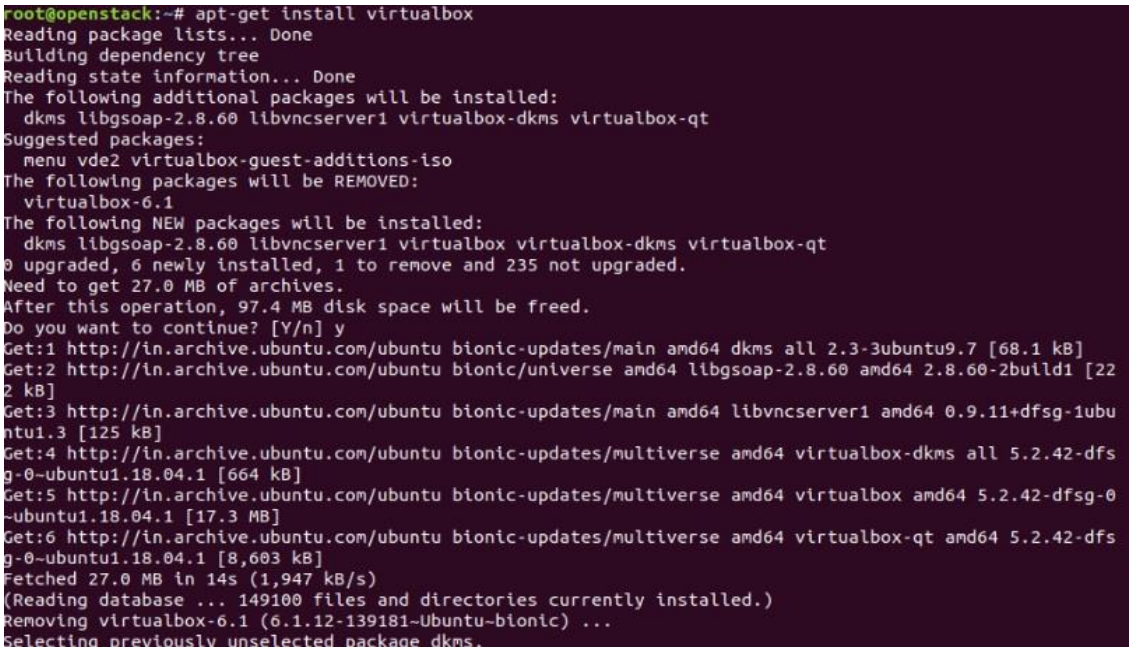
Name the Virtual Machine

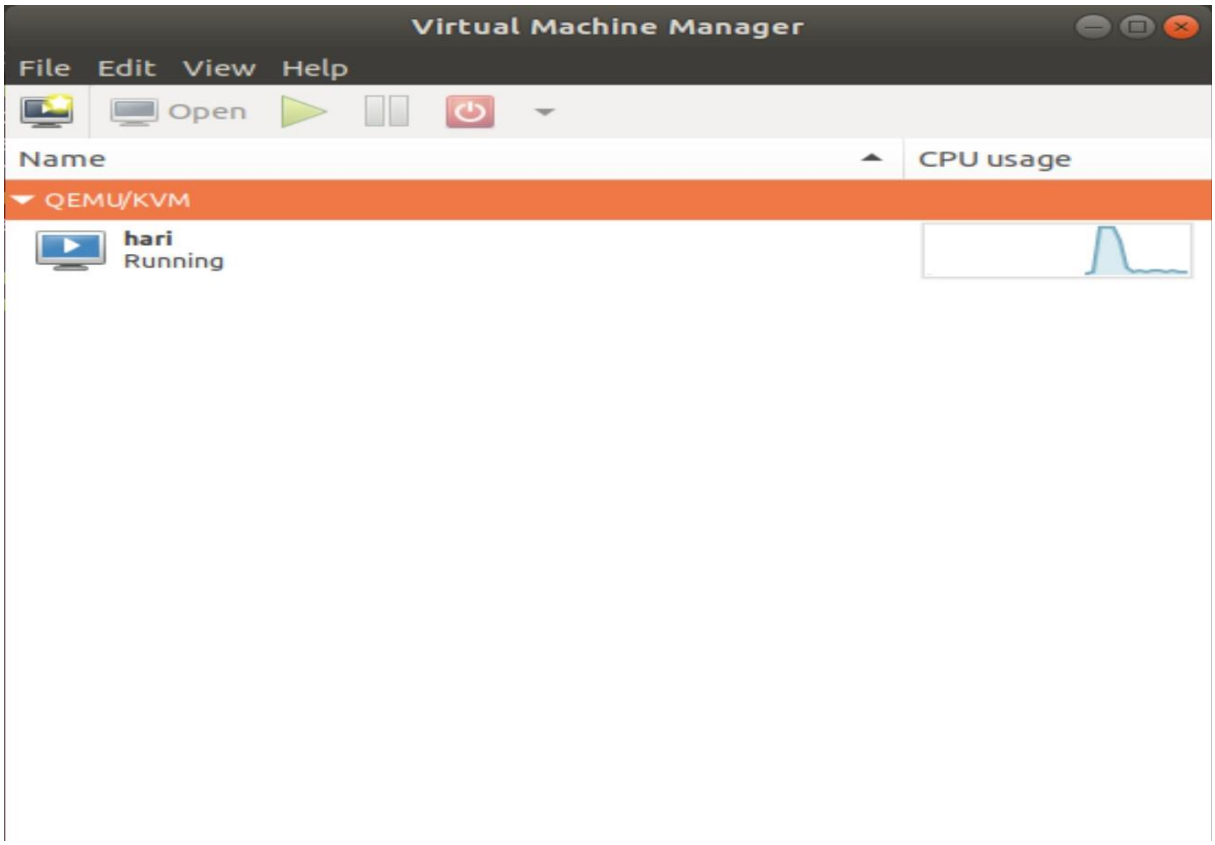


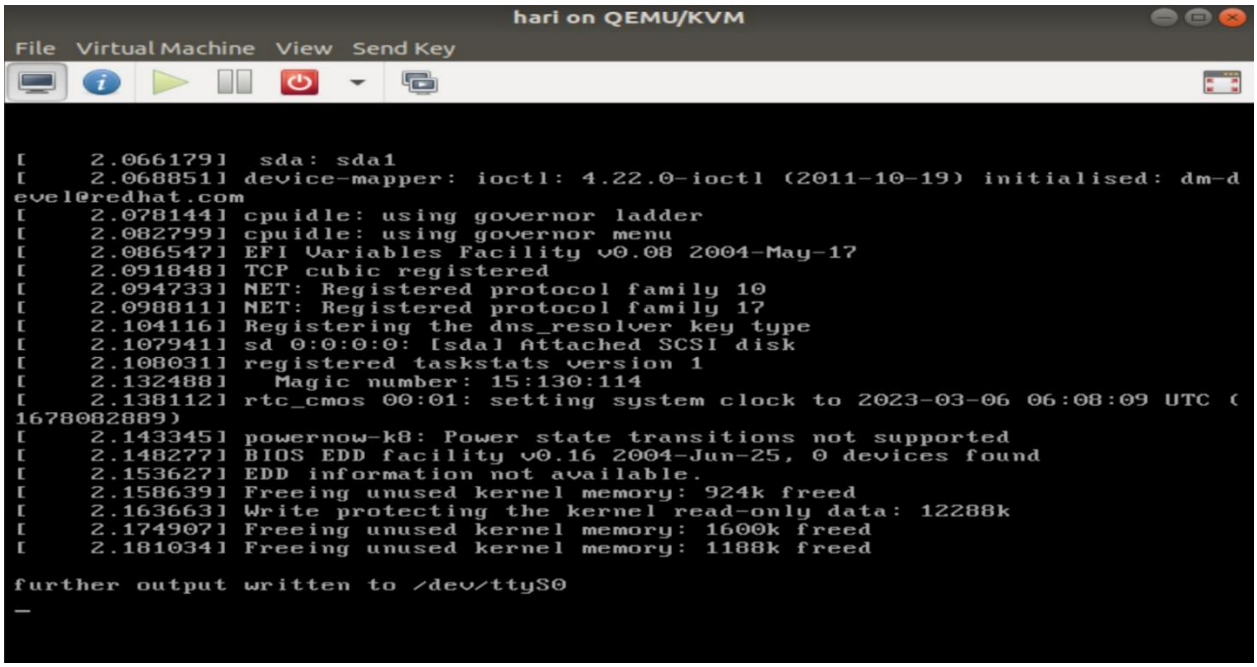
Booted VM



Oracle VirtualBox Installation







Result:

Hence , kvm has been installed and configured successfully.