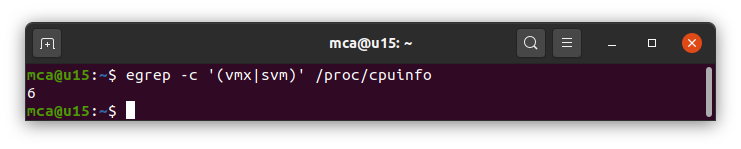
**Installation of KVM/QEMU on Ubuntu & Managing KVM/QEMU with virt-manager**

**Installing KVM/QEMU**

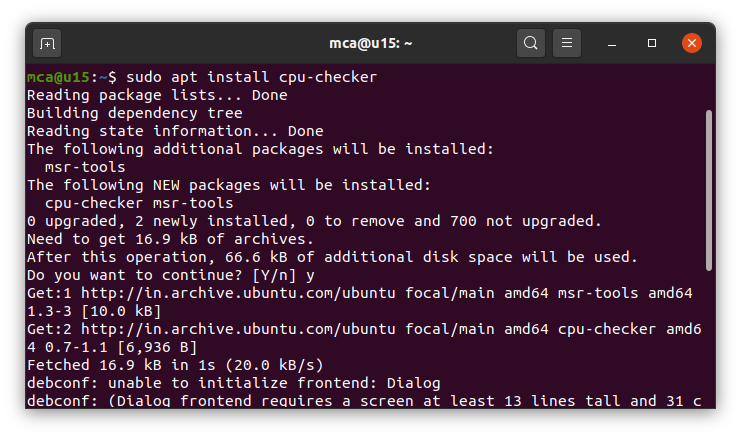
1. Install CPU Info Checker

$ sudo apt install cpu-checker



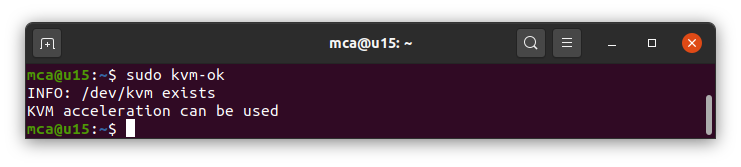
1. Check CPU Info

*$ egrep -c '(vmx|svm)' /proc/cpuinfo*



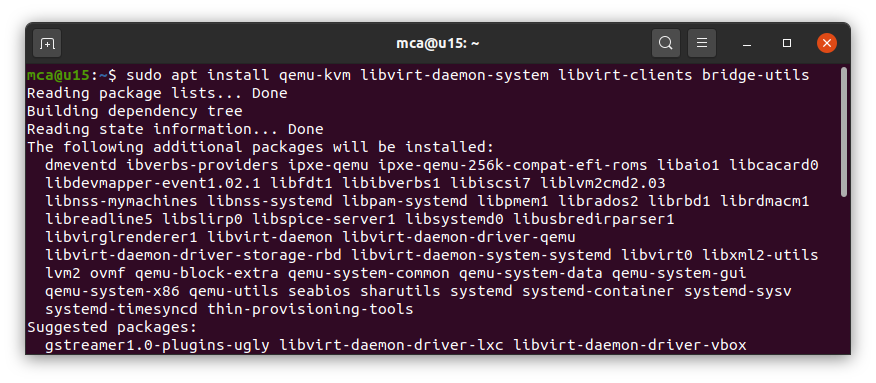
1. Check KVM Status

*$ sudo kvm-ok*



1. Install QEMU/KVM and libvirt

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



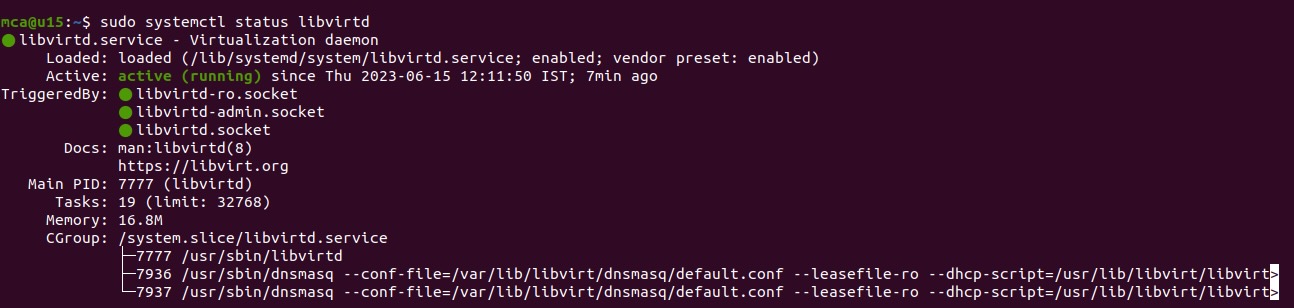
1. Enable libvirt

*$ sudo systemctl enable --now libvirtd*



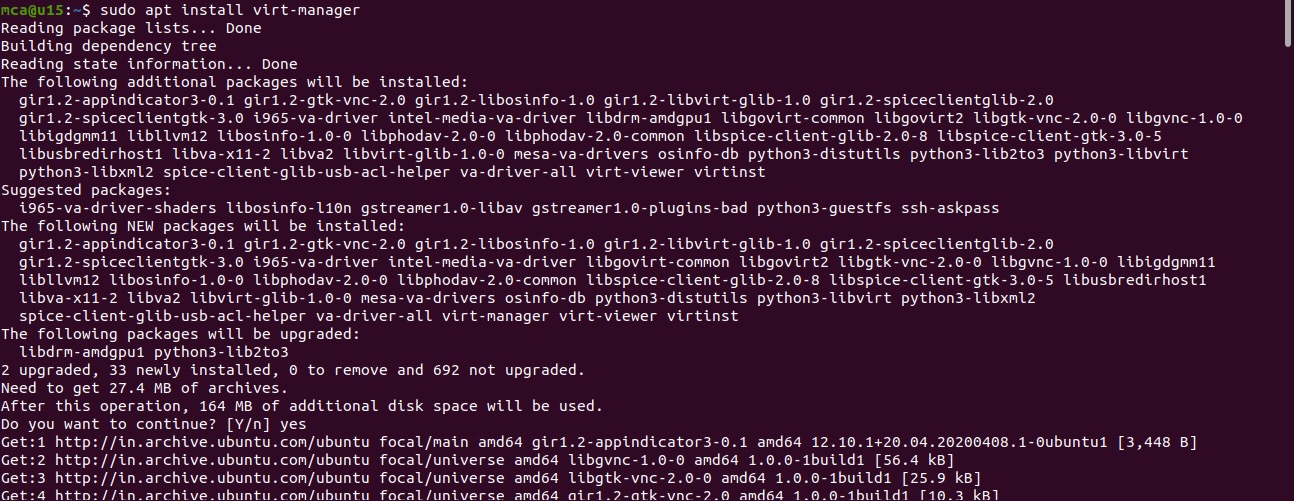
1. Check libvirt Status

*$ sudo systemctl status libvirtd*



1. Install virt-manager

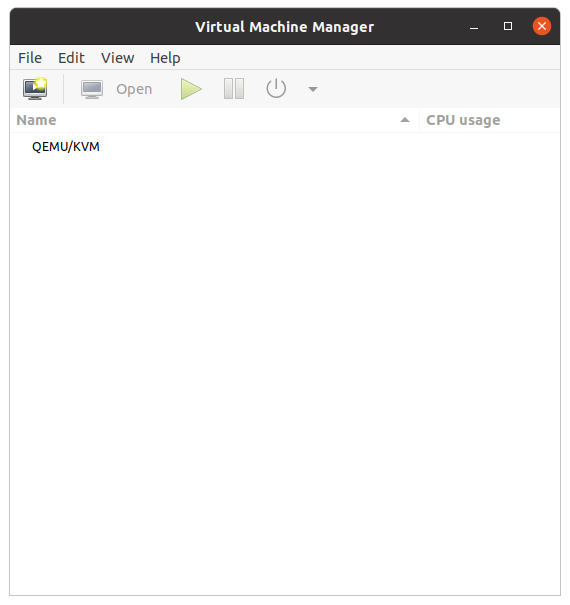
*$ sudo apt install virt-manager*



1. Launch virt-manager

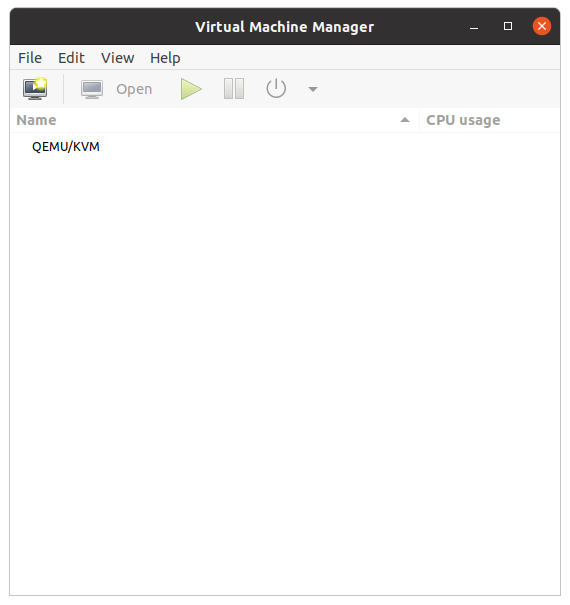
$ sudo virt-manager



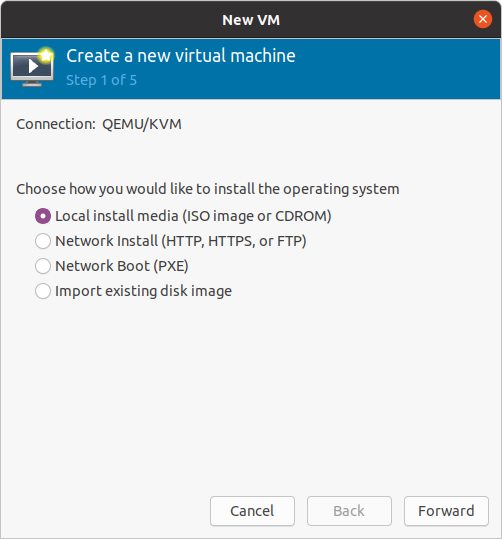


**Installing VM - using ISO image**

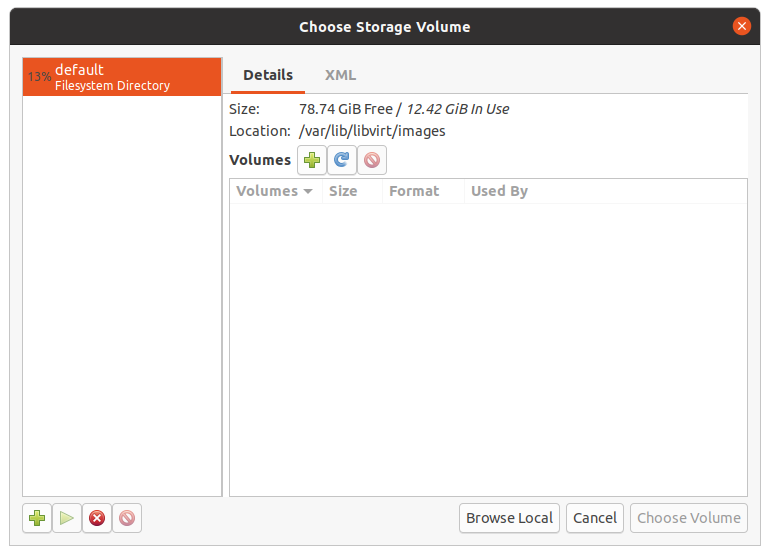
* 1. Launch QEMU/KVM



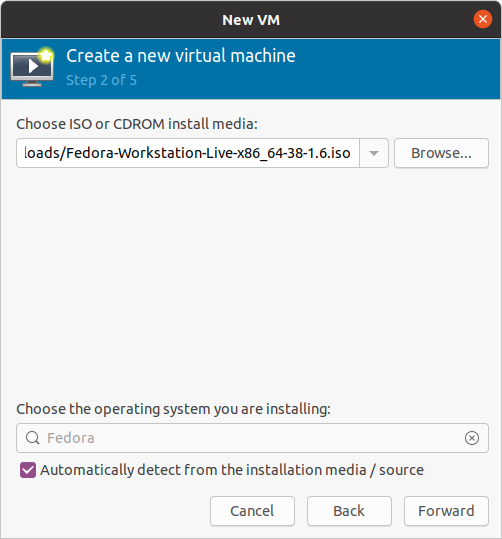
* 1. Create new Virtual Machine



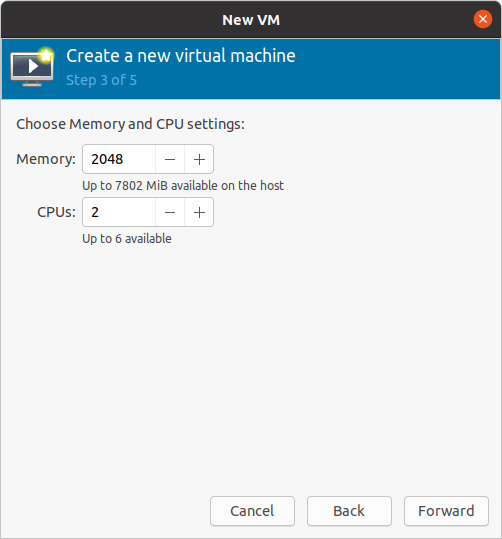
* 1. Choose Storage Volume

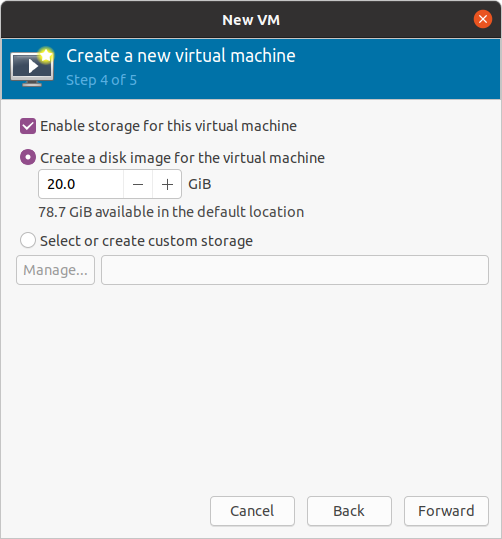


* 1. Choose the ISO Image to Install

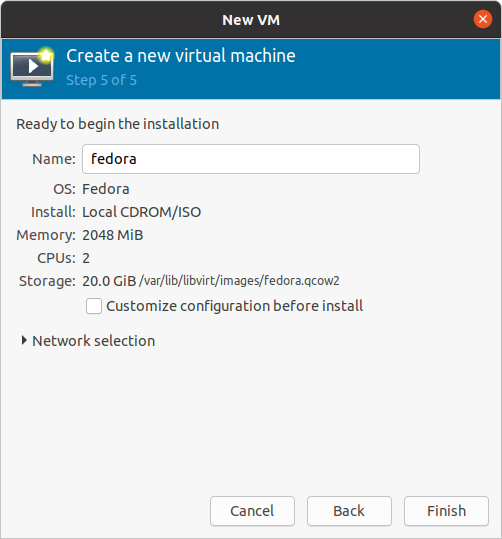


* 1. Configure Memory and CPU

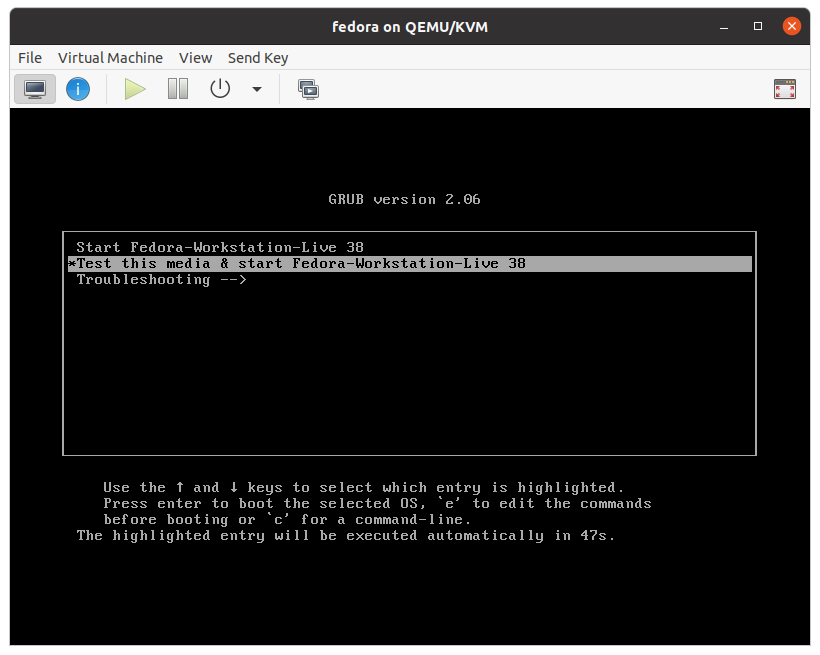


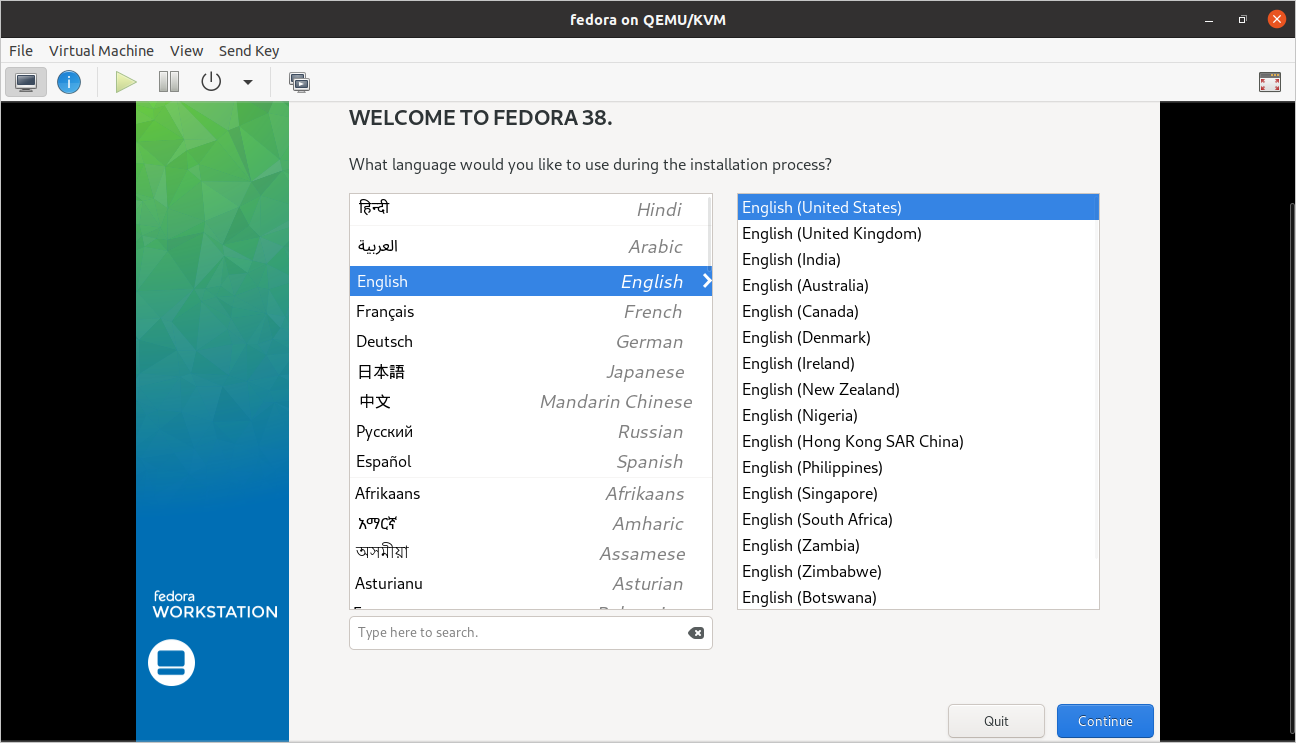


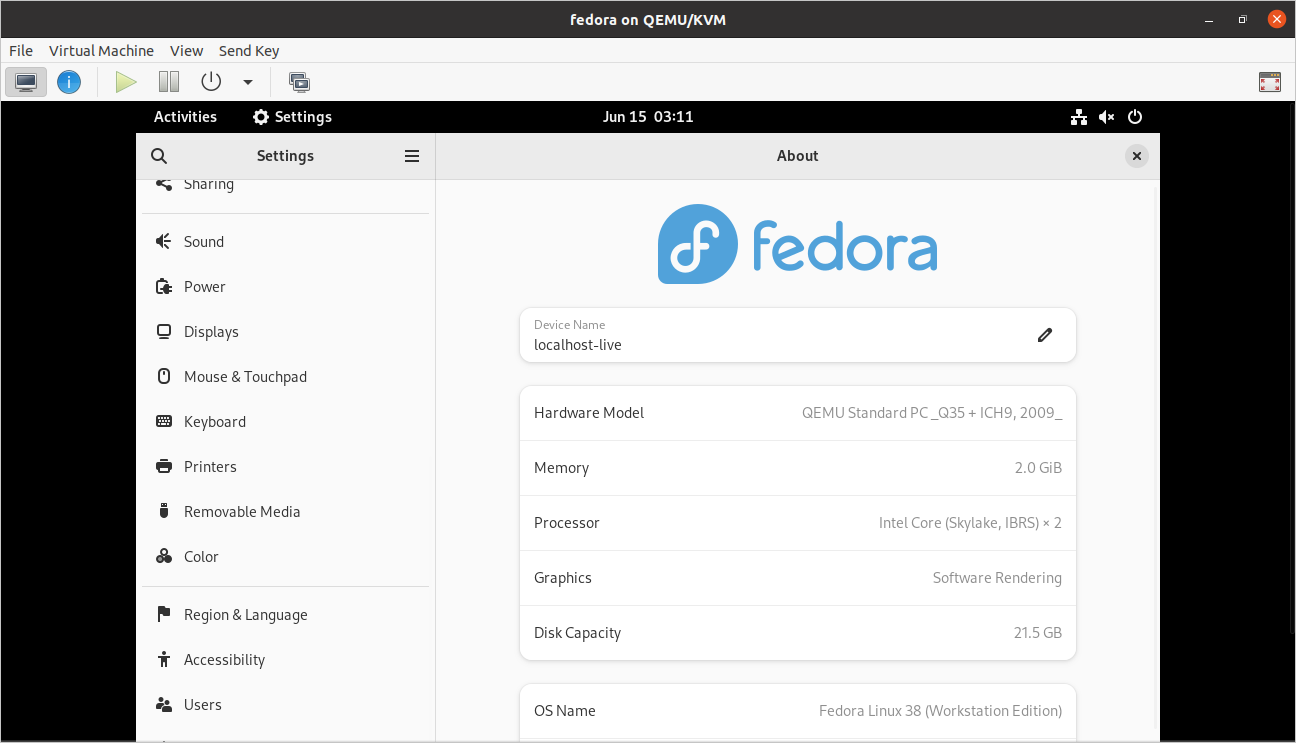
* 1. Configure the VM Name



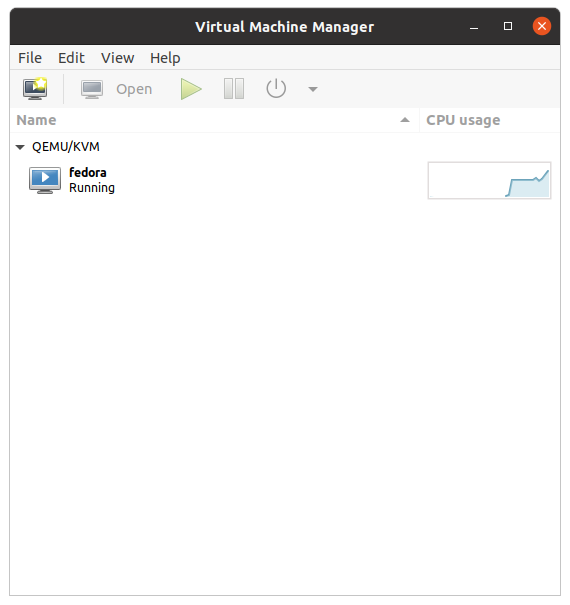
* 1. Installation







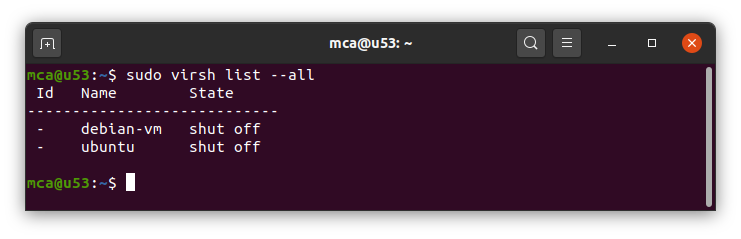
* 1. Virt-Manger Status



**Managing VMs using Virt-Manager**

1. List all VMs

*$ sudo virsh list –all*



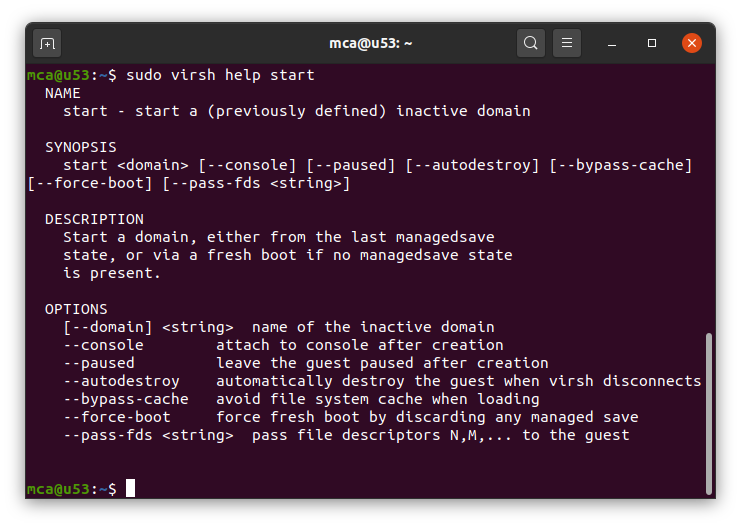
1. Display the Node Information

*$ sudo virsh nodeinfo*



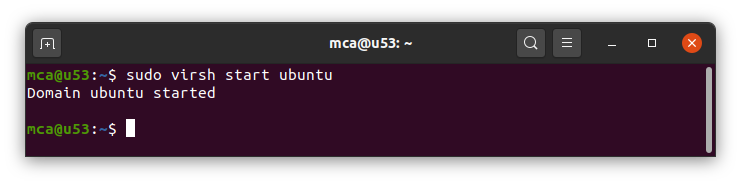
1. Display Help Options

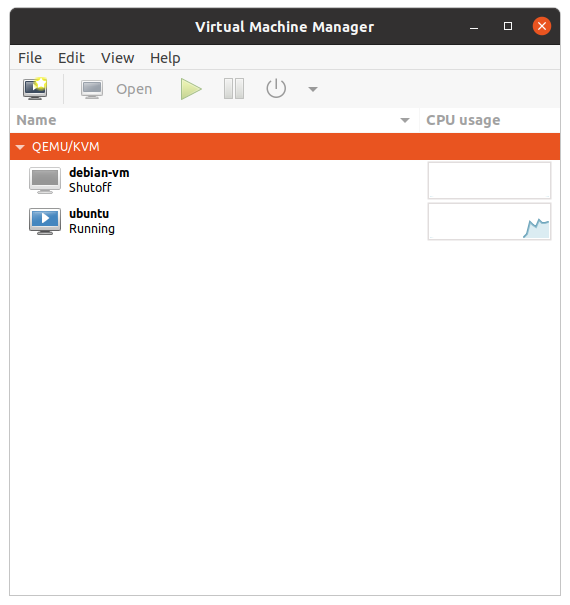
*$ sudo virsh help list*



1. Start a VM

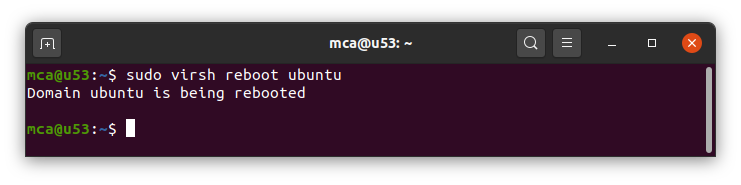
*$ sudo virsh start <vmname>*





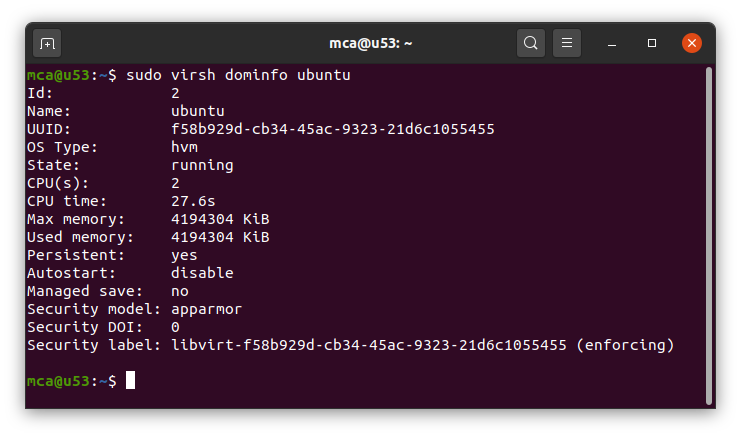
1. Reboot VM

*$ sudo virsh reboot <vmname>*



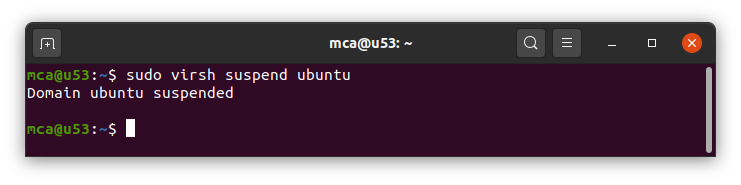
1. Display Domain Info

*$ sudo virsh dominfo <vmname>*



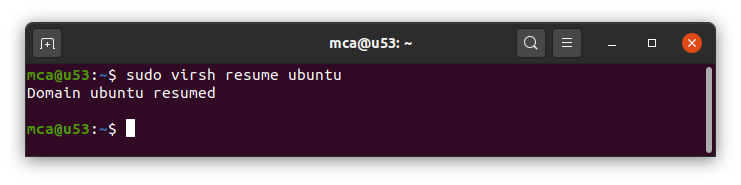
1. Suspend VM

*$ sudo virsh suspend <vmname>*



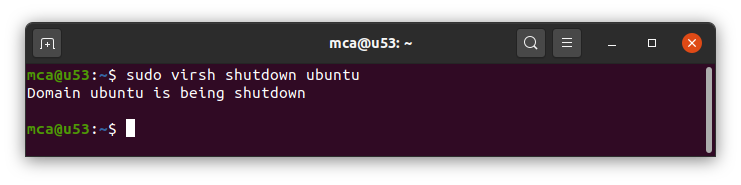
1. Resume VM

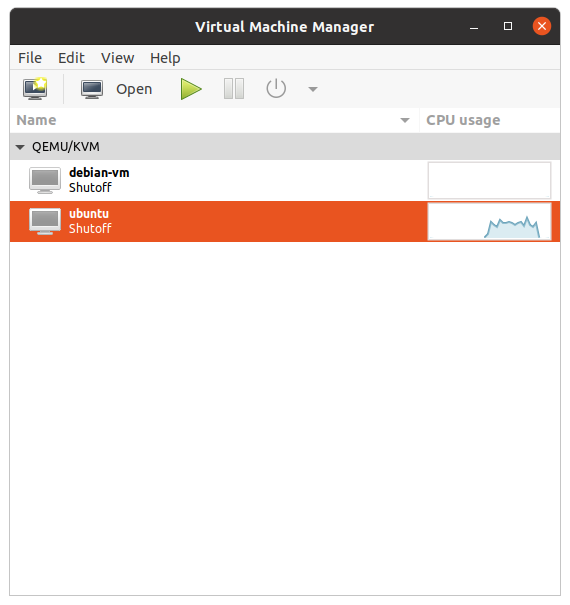
*$ sudo virsh resume <vmname>*



1. Shutdown VM

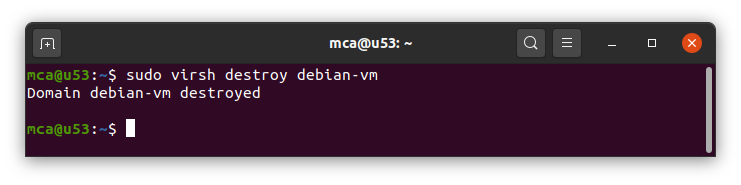
*$ sudo virsh shutdown <vmname>*





1. Destroy VM

*$ sudo virsh destroy <vmname>*

**

1. Undefine VM

*$ sudo virsh undefine --domain <vmname> --remove-all-storage*

