Running virtual machine on KVM

1. **Check whether CPU has hardware virtualization support.**
   KVM only works if your CPU has hardware virtualization support

   ```
   #sudo grep -c "svm\|vmx" /proc/cpuinfo
   ```

   ```
   root@ubuntu:/home/tsec# sudo grep -c "svm\|vmx" /proc/cpuinfo
   24
   ```

2. **Install KVM and dependent packages.**
   ```
   #apt-get install qemu-kvm libvirt-clients libvirt-daemon-system bridge-utils
   ```

   ```
   root@ubuntu:/home/tsec# apt-get install qemu-kvm libvirt-clients libvirt-daemon-system bridge-utils
   ```

3. **Check whether everything is working correctly.**
   Run following command after logging back in as tsec and you should see an empty list of virtual machines.
   This indicates that everything is working correctly.

   ```
   root@ubuntu:/home/tsec# virsh -c qemu:///system list
      Id      Name                     state
   ------------------------------------------------------

   root@ubuntu:/home/tsec#
   ```

4. **Open Virtual Machine Manager application and Create Virtual Machine.**

   ```
   root@ubuntu:/home/tsec# virt-manager
   ```

5. Create and run Virtual Machines.

Virtual Machine Manager

File Edit View Help

Name

localt

New VM

Create a new virtual machine
Step 3 of 5

Choose Memory and CPU settings

Memory (RAM): 1024 − + MB

Up to 7928 MB available on the host

CPUs: 8 − +

Up to 8 available

Cancel Back Forward

Virtual Machine Manager

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New VM

Create a new virtual machine
Step 4 of 5

☑ Enable storage for this virtual machine

◉ Create a disk image on the computer's hard drive

5.0 − + GB

458.3 GB available in the default location

☐ Allocate entire disk now 💡

○ Select managed or other existing storage

Browse...

Cancel Back Forward