

Install: KVM / QEMU

Here are the steps to get KVM/QEMU installed.

First check and make sure that virtualization is enabled in the bios and seen by the system

```
lscpu | grep Virtualization
```

Should look something like this

```
[root@bs ~]# lscpu | grep virtualization
virtualization:    VT-x
virtualization type: full
```

Can also use this command and look for 'vmx' or 'svm' in the output.

```
cat /proc/cpuinfo | egrep "vmx|svm"
```

Should look something like this

```
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
tsc_known_freq    pni    pclmulqdq    vmx    ssse3    cx16    pcid    sse4_1    sse4_2    x2apic
```

Once that is validated, load up some KVM

```
# LOAD THE EPEL REPO AND INSTALL THE KVM APPLICATION AND TOOLS
dnf install -y epel-release
dnf install -y libvirt virt-install libvirt-client libguestfs-tools libosinfo virt-top

systemctl enable libvirtd
systemctl start libvirtd
```

Insure the KVM modules got loaded

```
lsmod | grep kvm
```

Should look something like this

```
kvm_intel          344064  6
kvm                958464  1 kvm_intel
irqbypass         16384  20 vfio_pci,kvm
```

Optional:

If you are running a desktop environment, you could install "virt-manager" and manage the KVM with a GUI.

```
dnf install virt-manager
```

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