AINUX

— TASTE OF LINUX —

WELCOME TO THE WORLD OF LINUX
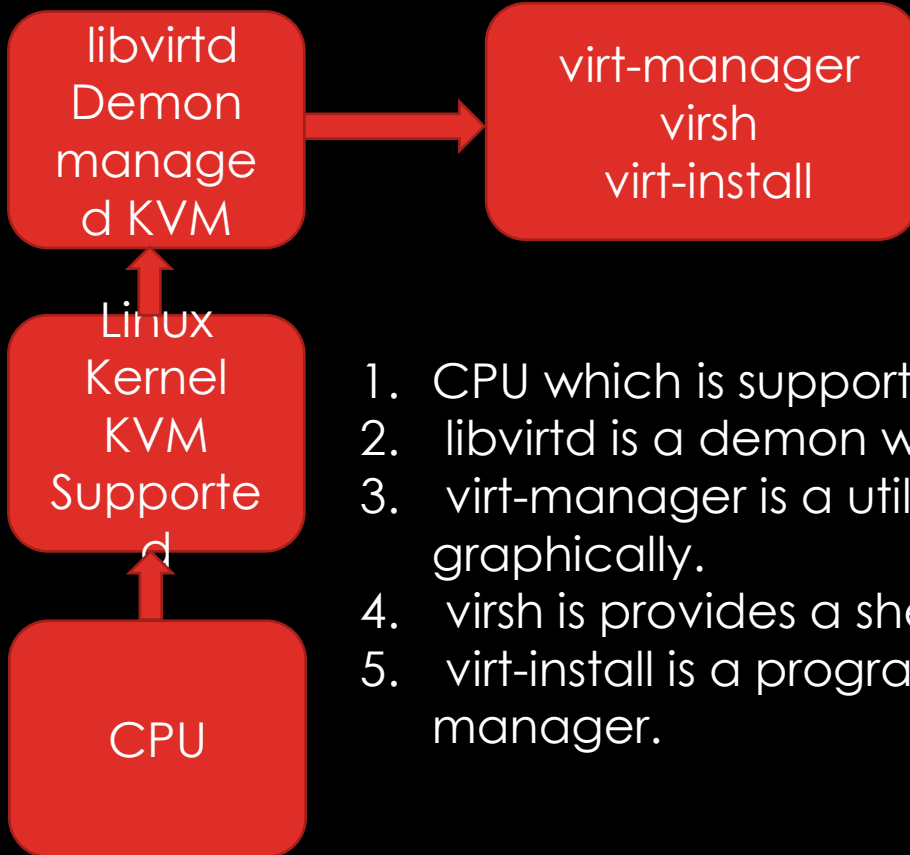
DAY - 19

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Using Virtualized Systems

KVM (Kernel-based Virtual Machine) is a full virtualization solution in RHEL.

Requirements of Virtualization

1. CPU should be 64 Bit supported.
2. CPU support either VMX or SVM technology. (for Intel VMX and for AMD SVM)
3. 2 GB of RAM, plus additional RAM for virtual machine.
4. 6GB space for host.

libvirtd Demon managed KVM → virt-manager virsh virt-install

Linux Kernel KVM Supported

CPU

1. CPU which is supported KVM
2. libvirtd is a demon which is manage the KVM process.
3. virt-manager is a utility which is manage virtual machines graphically.
4. virsh is provides a shell to manage virtual machines.
5. virt-install is a program to install virtual machines. It is used with virt-manager.

Using Virtualized Systems

Installation Technique to remember.

1. Configure HOST-NAME
2. Configure Network
3. Create a standalone or network based YUM server
4. Install "virt-manager, virt-install, virt-viewer"
5. Start libvirtd demon
6. Start "virt-manager"

Installation steps

1. hostname
2. hostnamectl set-hostname KVMSRV
3. nmcli connection add con-name "dynamic" type ethernet ifname ens33
4. nmcli connection add con-name "static" type ethernet ifname ens33 autoconnect no ip4 192.168.200.1/24 ipv4.dns 192.168.200.1
5. vim ifcfg-static
6. nmcli connection up static
7. init 0
8. touch /etc/yum.repos.d/server.repo
9. vim /etc/yum.repos.d/server.repo
10. mkdir /YUM
11. mount /dev/cdrom /mnt/

Using Virtualized Systems

1. cp -rv /mnt/Packages/* /YUM/
2. yum clean all
3. createrepo /YUM/
4. yum repolist
5. arch
6. cat /proc/cpuinfo | grep vmx
7. yum install virt-manager virt-install virt-viewer
8. systemctl start libvirtd
9. virt-manager

THANK YOU

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