NETWORKING & SYSTEM ADMINISTRATION LAB

Name: Manya Madhu

Roll No: 17

Batch: S2 RMCA B

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Aim

Introduction to Hypervisors and VMs: KVM installation and commands.

Procedure

For the Ubuntu system, all packages required to run KVM are available on official upstream repositories. Install them using the commands:

sudo apt update

apt-get install qemu qemu-kvm libvirt-bin bridge-utils virt-manager virtviewer-y

Create Virtual Machine

• You can create virtual machine using virt-manager utility. Run the following command to start the virt-manager:

sudo virt-manager

virsh help virsh

help

virsh help list Sudo

virsh nodeinfo

Virsh start vm

virsh start

virsh start testvm1

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mca@U17:- x mca@U17:- x mca@U17:- x mca@U17:- x mca@U17:- x mca@U17:- S sudo apt update [sudo] password for mca:

[cet:: http://packages.microsoft.com/repos/vscode stable InRelease [3,959 B]

[cet:: http://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]

[Err:: http://packages.microsoft.com/repos/vscode stable/naclease [1,811 B]

[Err:: http://packages.microsoft.com/repos/vscode stable/naclease [1,811 B]

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INFO: /dev/kvm exists

KVM acceleration can be used
nca@U17:-

INFO: /dev/kvm exists

KVM acceleration can be used
nca@U17:-

Sudo apt install cpu-checker
Reading package lists... Done
Building gependency tree
Reading state information... Done
Reading package lists... Sudo apt update

Get: http://dl.google.com/linux/chrome/deb stable InRelease

The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 788D65473CB3BD13

Htt:: http://parchive.bubmit.com/lubumit.bonic InRelease

Htt:: http://parchive.bubmit.com/lubumit.or/so/Jubmit.bionic InRelease

Htt:: http://pac.launchpad.net/joansthon/python-3.6/Jubmit.bionic InRelease

Htt:: http://ppa.launchpad.net/pagubumit.bionic InRelease

E: The repository http://dl.google.com/linux/chrome/deb stable InRelease: The following signatures couldn't be verified because the public key is

not available: No Publicy 788D63473CB3BD13

E: The repository http://dl.google.com/linux/chrome/deb stable InRelease

E: The repository http://dl.google.com/linux/chrome/deb stable InReleas
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mca@U17:-$ sudo apt install qemu-kvm libvirt-daemon-system libvirt-clients bridge-utils virt-manager
[sudo] password for mca:
Reading package lists... Done
Bullding dependency tree
Reading state information... Done
bridge-utils is already the newest version (1.5-15ubuntu1).
libvirt-clients is already the newest version (4.0.0-1ubuntu8).
libvirt-daemon-system is already the newest version (4.0.0-1ubuntu8).
libvirt-daemon-system is already the newest version (4.0.0-1ubuntu8).
qenu-kvm is already the newest version (1:2.11-dfsg-1ubuntu7.4).
The following additional packages will be installed:
    gir1.2-appindicator3-0.1 gir1.2-git-vnc-2.0 gir1.2-libosinfo-1.0 gir1.2-libvirt-glib-1.0 gir1.2-spiceclientglib-2.0
    gir1.2-spiceclientglib-2.0-8 libspoice-client-gitb-3.0-5 libusbredirhost1 libvirt-glib-1.0-0 osinfo-db python-dbus python-gi-cairo
    python-libvirt python-libvirt python-libvirt sythos-libvirb-glib-usb-acl-helper virt-viewer virtinst
Suggested packages:
    libosinfo-lion gstreamer1.0-plugins-bad gstreamer1.0-libav python-dbus-dbg python-dbus-doc ssh-askpass python-guestfs
The following NEW packages will be installed:
    gir1.2-appindicator3-0.1 gir1.2-gtk-vnc-2.0 gir1.2-libosinfo-1.0 gir1.2-libosinfo-1.0-0 libphodav-2.0-0 libphodav-2.0-0
    gir1.2-spiceclientglib-2.0 libpyirt-common libpovirt2 libgtk-vnc-2.0-0 libgvnc-1.0-0 libphodav-2.0-0 libphodav-2.0-0
    gir1.2-spiceclientglib-2.0 libpind-virt-common libpovirt2 libgtk-vnc-2.0-0 libgvnc-1.0-0 osinfo-db python-dbus python-gl-cairo
    python-lpaddr python-libvirt python-libxml2 spice-client-glib-1.0-0 osinfo-db python-dbus python-gl-cairo
    python-lpaddr python-libvirt python-libxml2 spice-client-glib-usb-acl-helper virt-manager virt-viewer virtinst

O upgraded, 28 newly installed, 0 to remove and 7 not upgraded.

Need to get 2,892 kB of archives.

After this operation, 18.3 MB of additional disk space will be used.

Do you want to continue? [V/n] y
```





















