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DATE:

CLOUD COMPUTING EXPERIMENTS

INSTALLATION OF VIRTUAL MACHINE.

AIM:

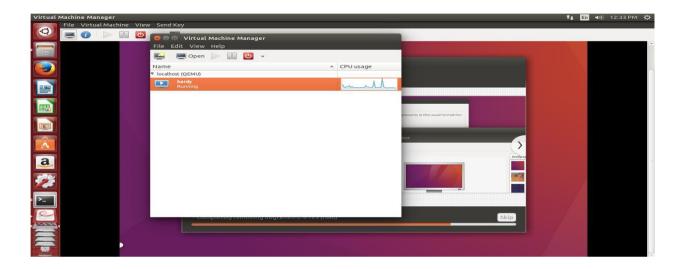
To find procedure to run the virtual machine of different configuration. Check how many virtual machines can be utilized at particular time.

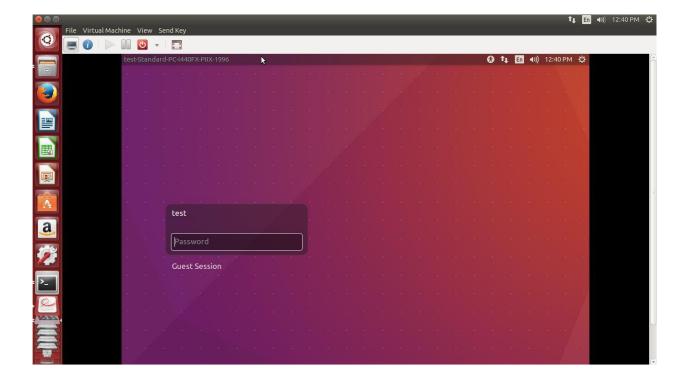
KVM:

In computing, virtualization refers to the act of creating a virtual (rather than actual) version of something, including virtual computer hardware platforms, operating systems, storage devices, and computer network resources. Kernel-based Virtual Machine (KVM) is a virtualization infrastructure for the Linux kernel that turns it into a hypervisor.

PROCEDURE:

```
$ lsb release -a
$ uname -a
$ free -m
$ df -h
$ date
$ egrep -c
$ cat /proc/cpuinfo
$ top
$ sudo apt-cache search gemu kvm
$ sudo apt-get update
$ sudo apt-get install qemu-kvm
$ sudo apt-get install libvert-bin
$ sudo apt-get install bridge-utils
$ sudo apt-get install virt-manager
$ sudo apt-get install gemu-system
$ sudo nano /etc/libvirt/libvirtd.conf
        Remove # in listen addr
        Add listen addr="0.0.0.0"
        unix_soc_rw_perm="0777"
        Uncomment unix sock dir="/var/run/libvirt"
        ctrl x, press y and enter
$ sudo /etc/init.d/libvert-bin status
$ virsh -c qemu:///system list
$ virsh
virh # node info
virh # list
virh # exit
$ virt-install --connect gemu:///system -n hardy -r 512 -f hardy1.gcow2 -s 12 -c ubuntu-14.04.2-server-
amd64.iso --vnc --noautoconsole --os-type linux -os-variant ubuntuHardy
$ sudo virt-manager
```





To install windows:

 $\$ virt-install -name myWin7 -ram 512 -disk path=/tmp/win7.img, size=10 -network network:default -vnc - os-variant vista -cdrom windows.XP.Professional.SP3.July.2010.iso

OPEN STACK INSTALLATION

\$ sudo adduser stack

\$ sudo -i

\$ echo "stack ALL=(ALL) NOPASSWD=ALL" >> /etc/sudoers

\$ cat /etc/sudoers

\$ exit

\$ sudo apt-get install git sudo

\$ exit

logout-> login as stack user

\$ git clone https://git.openstack.org/openstack-dev/devstack -b stable/newton

\$ cd devstack

\$ sudo nano stackrc

Add below line

GIT_BASE=\${GIT_BASE:-https://git.openstack.org}

\$ sudo nano stack.sh

Add below line after umask 022

FORCE-yes

ctrl x, press y and enter

\$ cd samples

\$ sudo nano local.conf

Paste the following contents after the line "[[local|localrc]]".

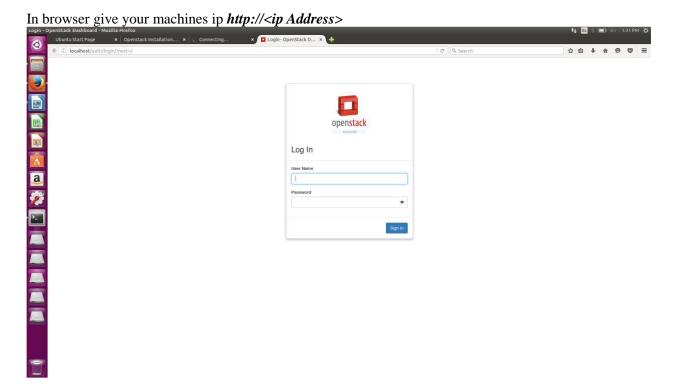
FLOATING_RANGE=192.168.0.0/24 FIXED_RANGE=117.239.243.178/24 FIXED_NETWORK_SIZE=256 FLAT_INTERFACE=eth1 ADMIN_PASSWORD=root DATABASE_PASSWORD=root RABBIT_PASSWORD=root SERVICE_PASSWORD=root SERVICE_TOKEN=root

otal ar areas are and enter

ctrl x, press y and enter

\$ cd ..

\$./stack.sh



Result:

Thus the procedure to run the virtual machine of different configuration wass executed successfully.