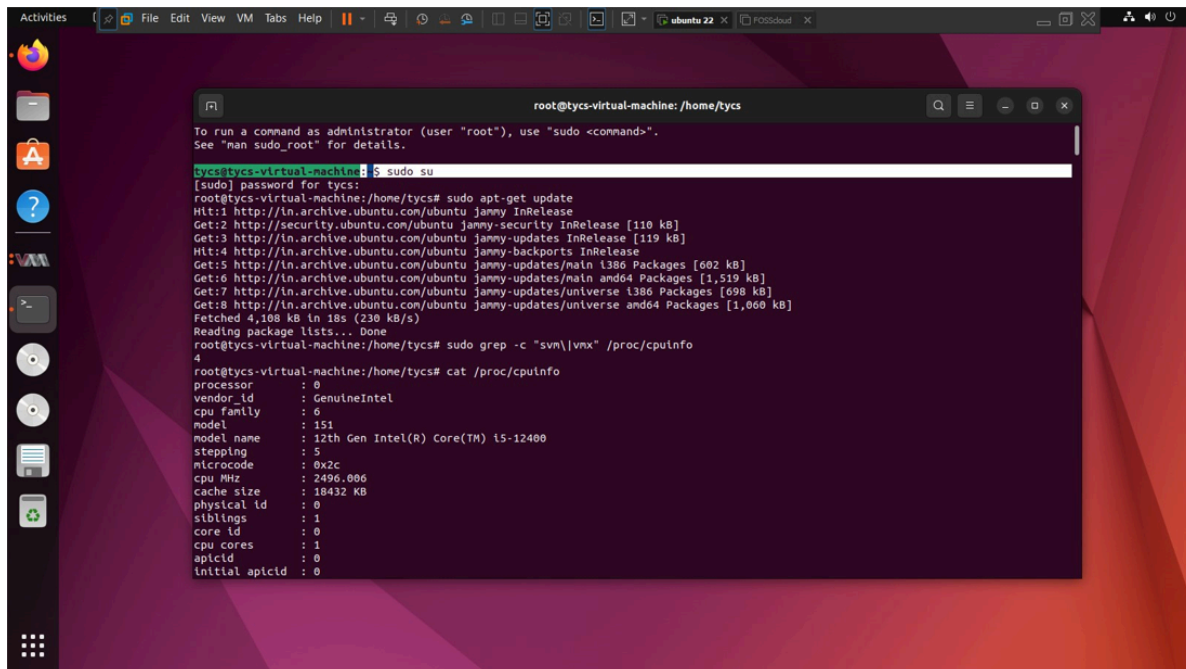
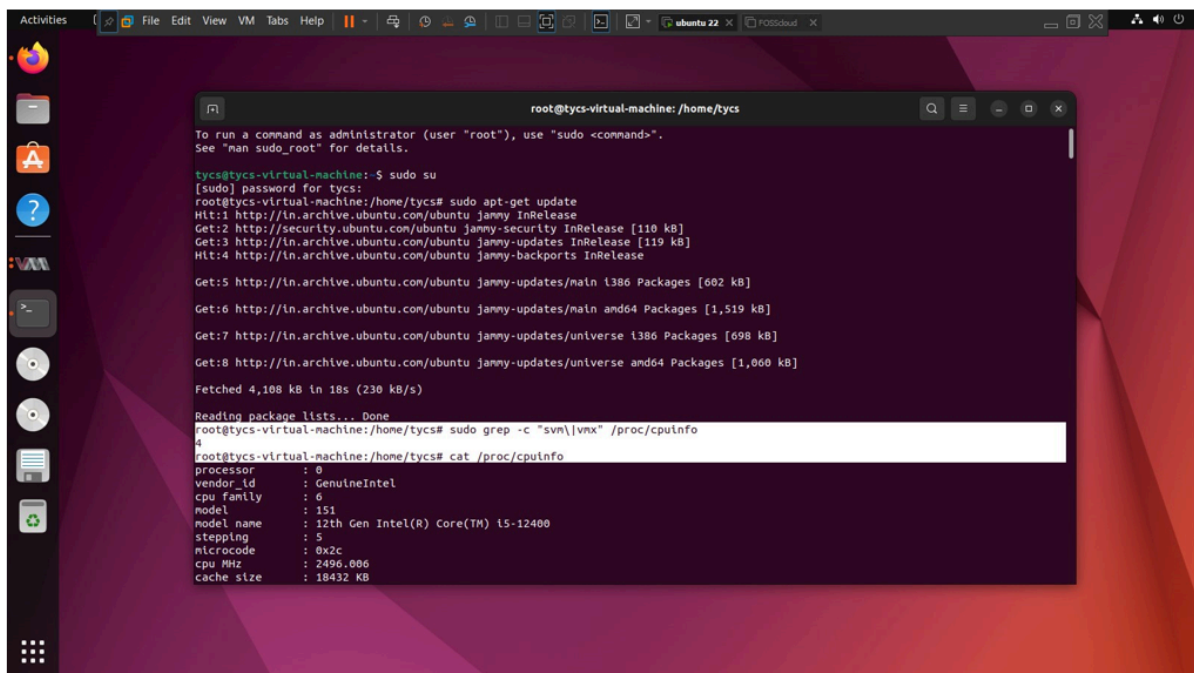


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```
root@tycs-virtual-machine: /home/tycs
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

tycs@tycs-virtual-machine:~$ sudo su
[sudo] password for tycs:
root@tycs-virtual-machine:/home/tycs# sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [602 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,519 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [698 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,060 kB]
Fetched 4,108 kB in 18s (230 kB/s)
Reading package lists... Done
root@tycs-virtual-machine:/home/tycs# sudo grep -c "svm|vmx" /proc/cpuinfo
4
root@tycs-virtual-machine:/home/tycs# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 151
model name     : 12th Gen Intel(R) Core(TM) i5-12400
stepping       : 5
microcode      : 0x2c
cpu MHz        : 2496.006
cache size     : 18432 KB
physical id    : 0
siblings       : 1
core id        : 0
cpu cores      : 1
apicid         : 0
initial apicid : 0
```



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Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [602 kB]
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cpu MHz        : 2496.006
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```

Jayesh mali T084

Activities File Edit View VM Tabs Help

root@tycs-virtual-machine: /home/tycs

```
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for initramfs-tools (0.140ubuntu13.4) ...
update-initramfs: Generating /boot/initrd.img-6.5.0-26-generic
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libgl1-mesa-dev:amd64 (2.72.4-0ubuntu2.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.6) ...
Processing triggers for man-db (2.10.2-1) ...
root@tycs-virtual-machine:/home/tycs# sudo systemctl enable --now libvirt
root@tycs-virtual-machine:/home/tycs# sudo systemctl start libvirt
root@tycs-virtual-machine:/home/tycs# sudo systemctl status libvirt
● libvirt.service - Virtualization daemon
   Loaded: loaded (/lib/systemd/system/libvirt.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2024-03-30 13:50:47 IST; 2min 6s ago
   TriggeredBy: ● libvirt-ro.socket
                 ● libvirt-admin.socket
                 ● libvirt.socket
   Docs: man:libvirt(8)
          https://libvirt.org
   Main PID: 6320 (libvirt)
   Tasks: 21 (Limit: 32768)
   Memory: 14.4M
   CPU: 351ms
   CGroup: /system.slice/libvirt.service
           └─6320 /usr/sbin/libvirt
           └─6444 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/default.conf --leasefile-ro --dhcp-script=/usr/lib/libv
               └─6445 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/default.conf --leasefile-ro --dhcp-script=/usr/lib/libv

Mar 30 13:50:47 tycs-virtual-machine systemd[1]: Started Virtualization daemon.
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: started, version 2.86 cachesize 150
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: compile time options: IPv6 GNU-getopt DBus no-UBus libn ION2 DHCPv6 no-LU
```

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```
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Mar 30 13:50:48 tycs-virtual-machine dnsmasq-dhcp[6444]: DHCP, IP range 192.168.122.2 -- 192.168.122.254, lease time 1h
Mar 30 13:50:48 tycs-virtual-machine dnsmasq-dhcp[6444]: DHCP, sockets bound exclusively to interface virbr0
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: reading /etc/resolv.conf
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: using nameserver 127.0.0.53#53
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: read /etc/hosts - 7 addresses
Mar 30 13:50:48 tycs-virtual-machine dnsmasq[6444]: read /var/lib/libvirt/dnsmasq/default.addnhosts - 0 addresses
Mar 30 13:50:48 tycs-virtual-machine dnsmasq-dhcp[6444]: read /var/lib/libvirt/dnsmasq/default.hostsfile

root@tycs-virtual-machine:/home/tycs# sudo usermod -aG kvm $USER
root@tycs-virtual-machine:/home/tycs# sudo usermod -aG libvirt $USER
root@tycs-virtual-machine:/home/tycs# sudo virt-manager
root@tycs-virtual-machine:/home/tycs#
```

```
tycs@tycs-Standard-PC-i440FX-PIIX-1996: ~$ ifconfig
ens3
Link encap:Ethernet HWaddr 52:54:00:31:c5:94
inet addr:192.168.122.20 Bcast:192.168.122.255 Mask:255.255.255.0
inet6 addr: fe80::dea2:1c3d:5e28:d63f/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:219 errors:0 dropped:3 overruns:0 frame:0
TX packets:170 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:293364 (293.3 KB) TX bytes:15094 (15.0 KB)

lo
Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:192 errors:0 dropped:0 overruns:0 frame:0
TX packets:192 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:14126 (14.1 KB) TX bytes:14126 (14.1 KB)

tycs@tycs-Standard-PC-i440FX-PIIX-1996: ~$
```