2A. Managing Console and Gaining Privileges

Accessing the Console:

You can access the console in Red Hat Linux through terminal sessions such as tty or remote access tools like SSH.

To switch between console terminals, use:

a.Ctrl + Alt + F1 to F6 for console sessions.

b.Ctrl + Alt + F7 to return to the graphical interface (if available).

2. Gaining Root Privileges (Superuser Access):

To temporarily gain root privileges, use the su command: #su -

This will prompt for the root password and give you root access.

Alternatively, you can use the sudo command to run individual commands with root privileges (if the user is configured in /etc/sudoers): #sudo <command>

To safely edit the sudoers file, use: #visudo

2B. Working with RPM:

To install an RPM package, use the following command: #rpm -ivh <package.rpm>

To upgrade a package to a newer version, use: #rpm -Uvh <package.rpm>

To remove an installed package: #rpm -e <package-name>

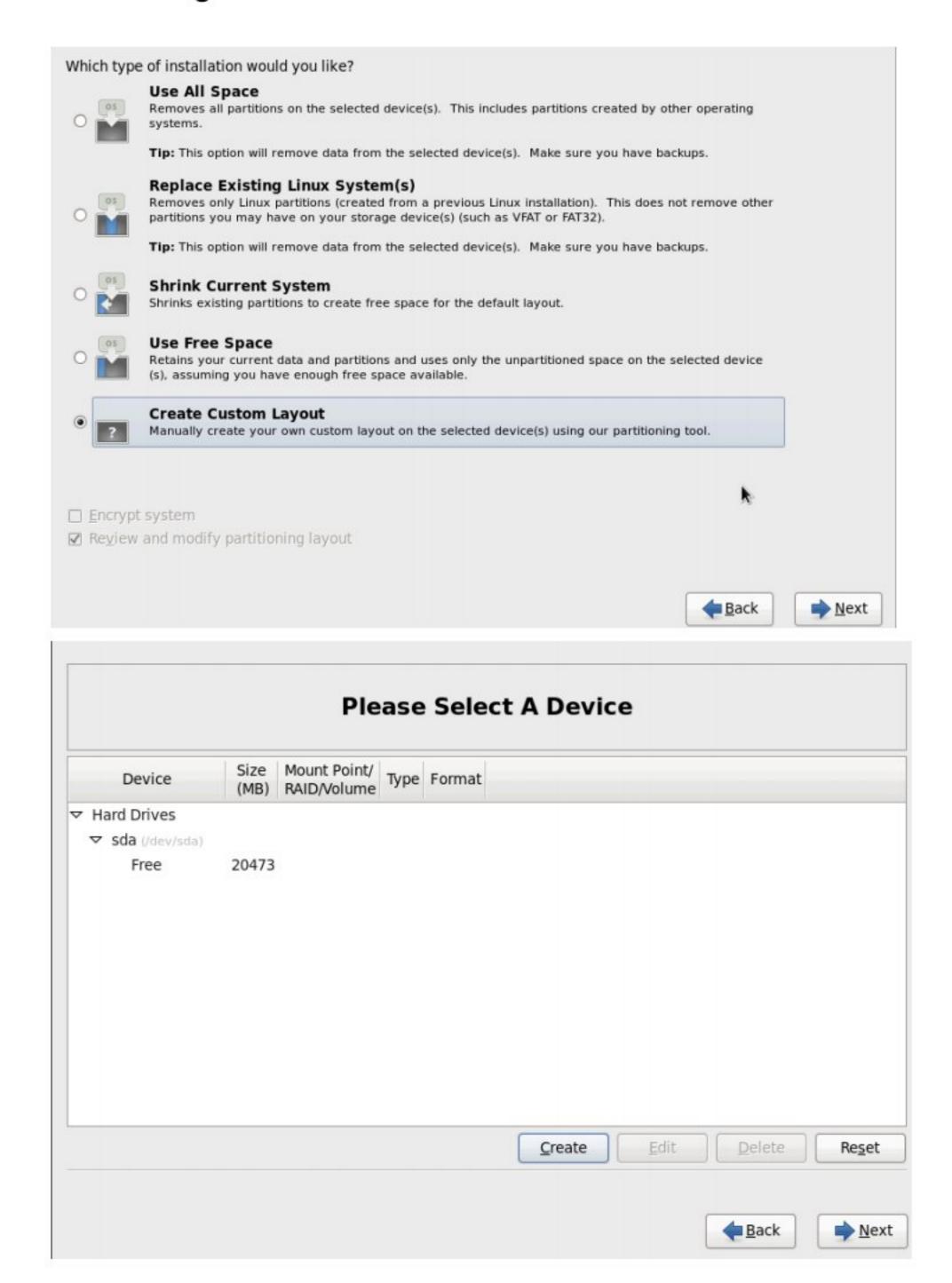
To check if a package is installed: #rpm -q <package-name>

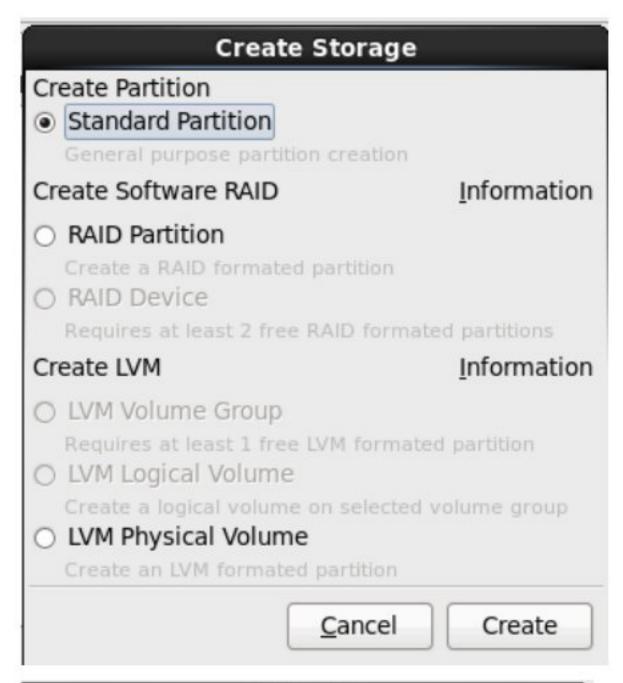
For detailed information about a package: #rpm -qi <package-name>

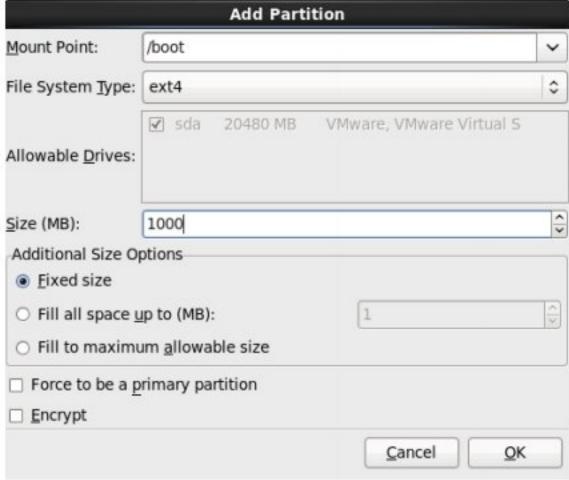
To verify the integrity of installed packages: #rpm -V <package-name></package-name>
2C. Working with Yum :
Installing Packages with Yum: #yum install <package-name></package-name>
To update all installed packages: #yum update
To update a specific package: #yum update <package-name></package-name>
To remove a package along with its dependencies: #yum remove <package-name></package-name>
To search for a package by name or description: #yum search <keyword></keyword>
To list all available packages: #yum list available
To list all installed packages: #yum list installed
Cleaning Yum Cache: #yum clean all

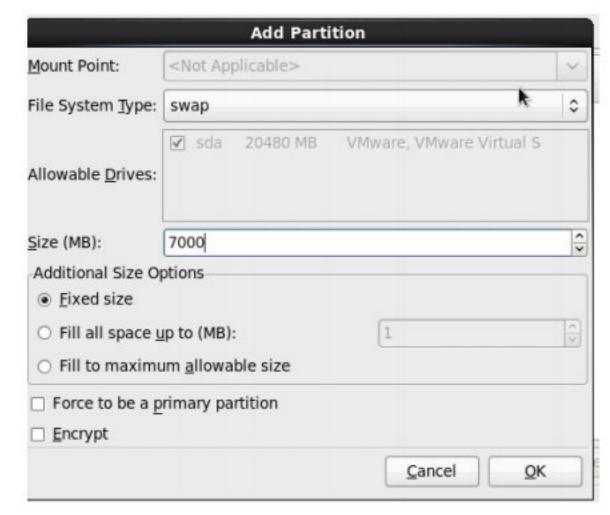
3A. Configuring and Managing Storage:

-Partitioning :



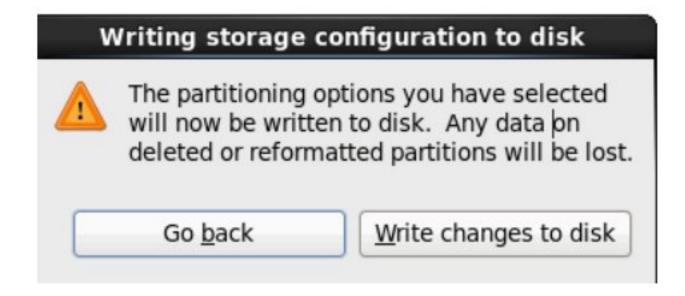








Click on write changes to the disk



-Listing Disks :

```
[root@www Desktop]# fdisk -l
Disk /dev/sda: 21.5 GB, 21474836480 bytes
255 heads, 63 sectors/track, 2610 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x00010de9
  Device Boot
                    Start
                                  End
                                           Blocks
                                                    Id System
                                  128
/dev/sdal
                                          1024000
                                                    83 Linux
Partition 1 does not end on cylinder boundary.
/dev/sda2
                      128
                                          7168000
                                                    82 Linux swap / Solaris
Partition 2 does not end on cylinder boundary.
/dev/sda3
                     1020
                                 2611
                                         12778496
                                                    83 Linux
[root@www Desktop]#
```

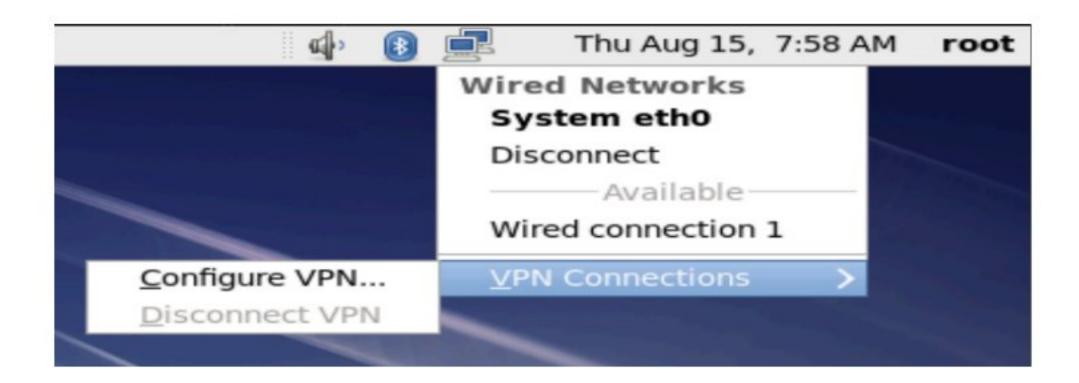
-Checking disk space:

-Checking directory size :



3B. Connecting to the Network:

-Configuring IP:



Select System eth0 and click on edit



Set the Address and netmask and click on apply



-Checking if the ip is set :

```
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50
                            root@www:~/Desktop
File Edit View Search Terminal Help
[root@www Desktop]# ifconfig
         Link encap: Ethernet HWaddr 00:0C:29:7B:AE:E6
eth0
         inet addr:192.168.17.31 Bcast:192.168.17.255 Mask:255.255.255.0
         inet6 addr: fe80::20c:29ff:fe7b:aee6/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:1392 errors:0 dropped:0 overruns:0 frame:0
         TX packets:612 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:237190 (231.6 KiB) TX bytes:112251 (109.6 KiB)
         Interrupt:19 Base address:0x2000
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:16436 Metric:1
         RX packets:2078 errors:0 dropped:0 overruns:0 frame:0
         TX packets:2078 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:160163 (156.4 KiB) TX bytes:160163 (156.4 KiB)
```

-Checking the connectivity:

```
[root@www Desktop]# ping 192.168.17.31
PING 192.168.17.31 (192.168.17.31) 56(84) bytes of data.
64 bytes from 192.168.17.31: icmp seq=1 ttl=64 time=0.184 ms
64 bytes from 192.168.17.31: icmp seq=2 ttl=64 time=0.049 ms
64 bytes from 192.168.17.31: icmp seq=3 ttl=64 time=0.053 ms
64 bytes from 192.168.17.31: icmp seq=4 ttl=64 time=0.053 ms
64 bytes from 192.168.17.31: icmp seq=5 ttl=64 time=0.053 ms
64 bytes from 192.168.17.31: icmp seq=6 ttl=64 time=0.054 ms
64 bytes from 192.168.17.31: icmp seq=7 ttl=64 time=0.059 ms
64 bytes from 192.168.17.31: icmp seq=8 ttl=64 time=0.054 ms
64 bytes from 192.168.17.31: icmp seq=9 ttl=64 time=0.067 ms
64 bytes from 192.168.17.31: icmp seq=10 ttl=64 time=0.055 ms
^Z
                              ping 192.168.17.31
[1]+ Stopped
[root@www Desktop]#
```

-Bringing Interfaces Up and Down:

