OS Hands-on Session

WEEK-1

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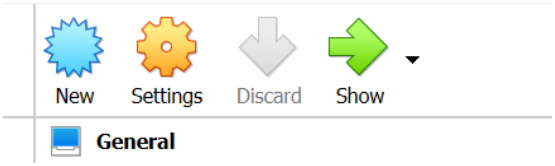
SEC: F

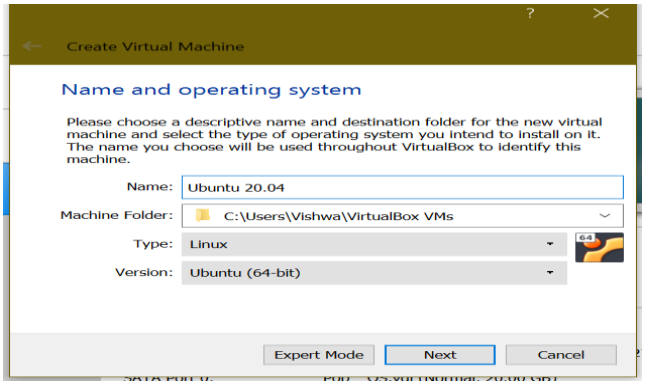
Procedure to install a Linux Distribution(Ubuntu 20.04 LTS) on VirtualBox:

Step 1: Download the iso file from the official website. Virtual Box must be pre-installed.

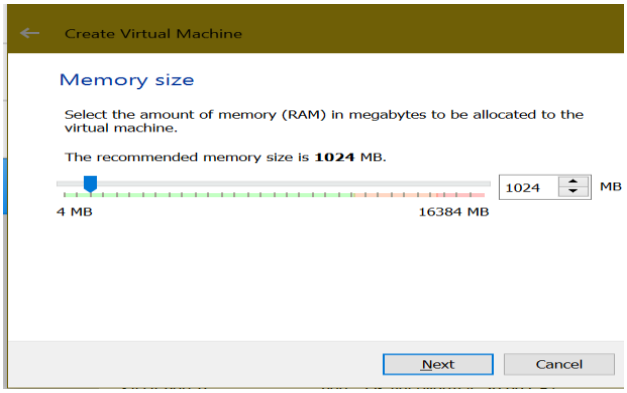
Step 2: Click on “New”.



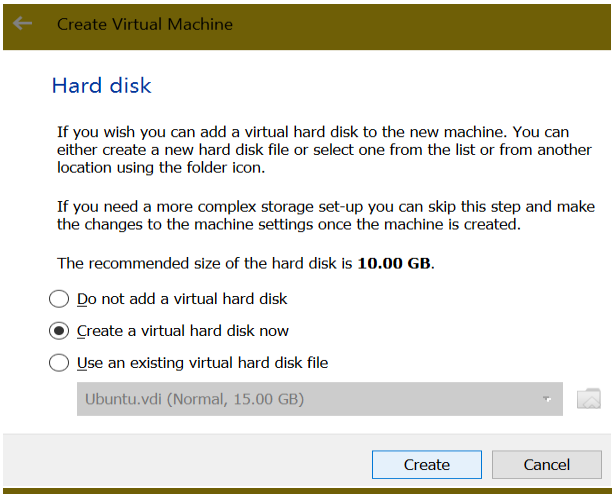
Step 3: Enter the type of OS to be installed. Click on Next.

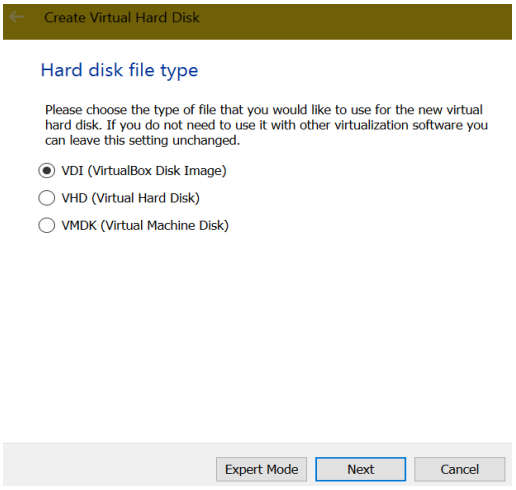


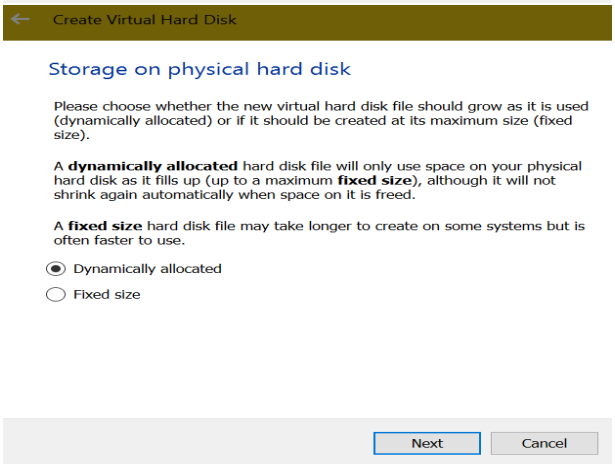
Step 4: Assign enough RAM for the OS. Click on Next.



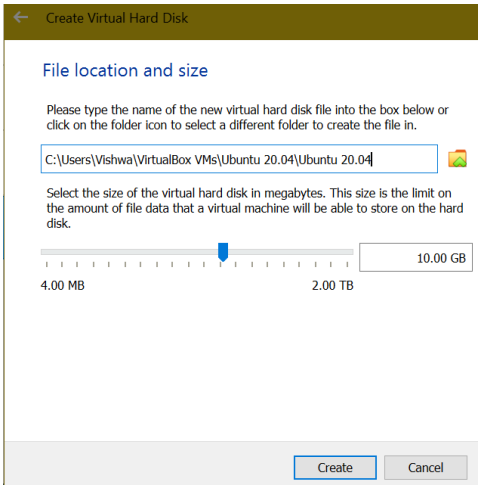
Step 5: Click on “Create” and then “Next”.







Step 6: Assign Storage Space for the OS and click on “Create”.

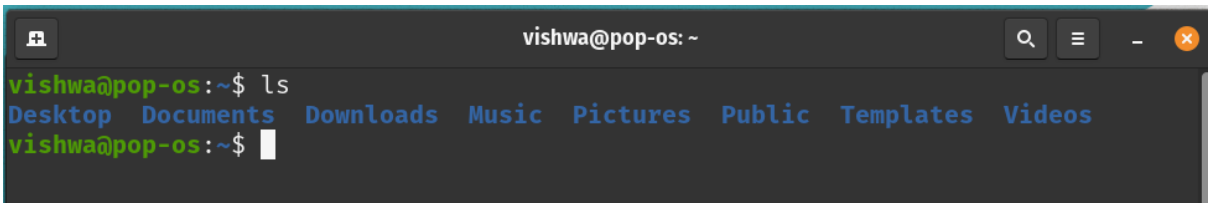


Step 7: Go to “Settings -> Storage -> Controller IDE” and click on the  icon and add the iso from downloads and click “Ok”.

Step 8: Click on “Start” and wait for the OS to load and follow the steps as directed by the OS setup wizard.

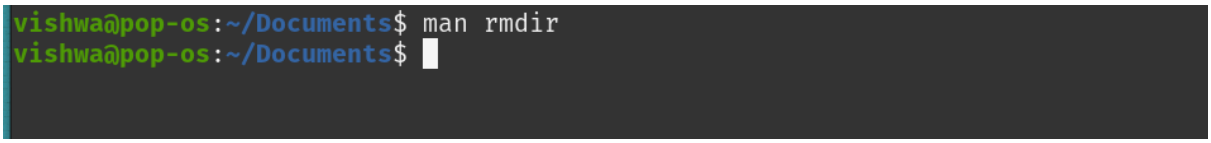
Linux Commands:

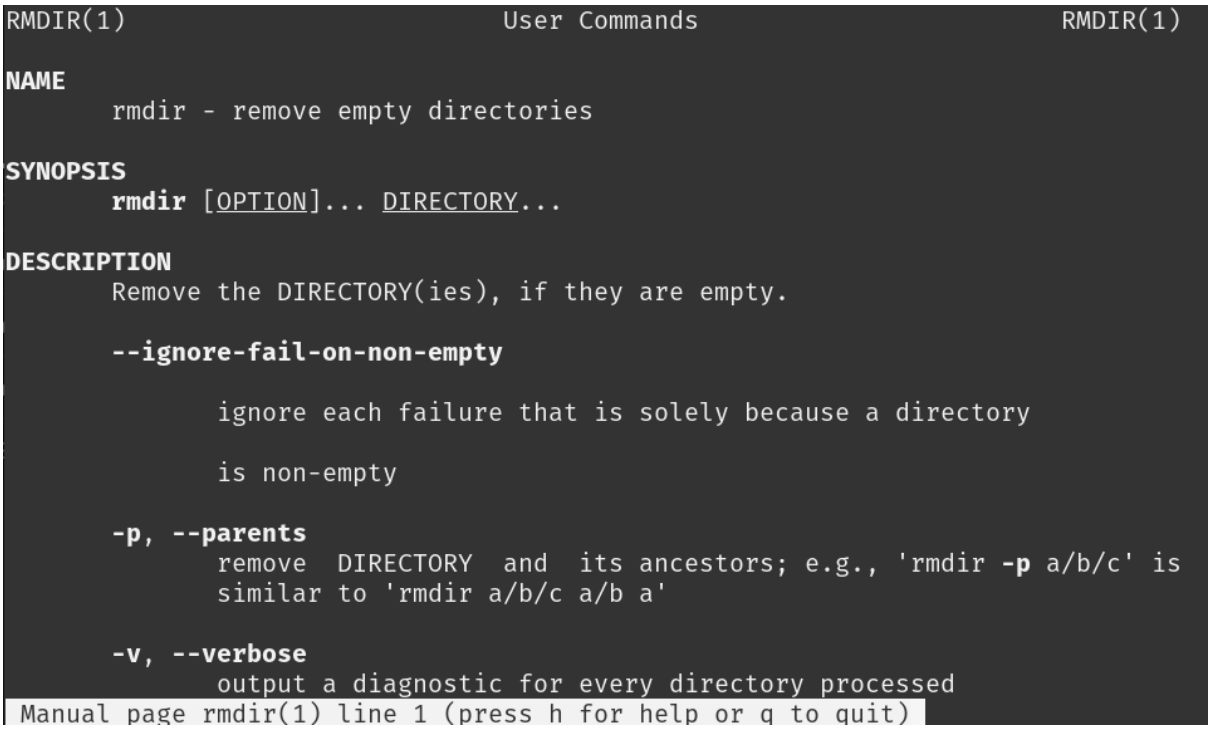
1. ls:



2. mkdir:

3. man:





4. ping:

```
vishwa@pop-os:~/Documents$ ping google.com
PING google.com (142.250.71.46) 56(84) bytes of data.
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=1 ttl=58 time=14.9 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=2 ttl=58 time=17.5 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=3 ttl=58 time=15.4 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=4 ttl=58 time=16.9 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=5 ttl=58 time=14.9 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=6 ttl=58 time=13.3 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=7 ttl=58 time=13.7 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=8 ttl=58 time=17.6 ms
64 bytes from maa03s35-in-f14.1e100.net (142.250.71.46): icmp_seq=9 ttl=58 time=13.5 ms
^C
--- google.com ping statistics ---
9 packets transmitted, 9 received, 0% packet loss, time 8033ms
rtt min/avg/max/mdev = 13.311/15.284/17.579/1.587 ms
vishwa@pop-os:~/Documents$
```

5. ifconfig:

```
vishwa@pop-os:~/Documents$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::c4c3:1e2:88b7:59c6  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:4f:0b:16  txqueuelen 1000  (Ethernet)
        RX packets 3798  bytes 2219904 (2.2 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 2943  bytes 1062910 (1.0 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 1499  bytes 147081 (147.0 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 1499  bytes 147081 (147.0 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

vishwa@pop-os:~/Documents$
```