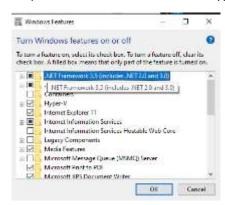
## Practical No 7

Aim: Implement Windows Hyper V virtualization

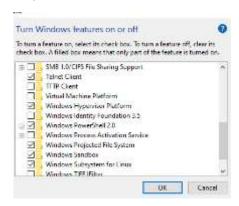
Step 1: Search for windows features on or off in search bar and open it.



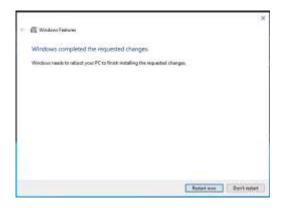
Step 2:Now scroll down click on Hyper-v ("Don't Click ok go to step no 3").



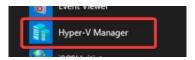
Step 3:Now scroll down click on Windows Sandbox and then click on ok



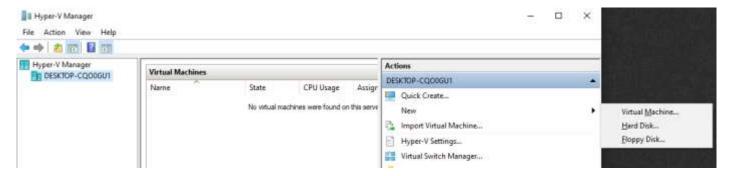
Step 4: Now Click on Restart Now (Pc will restart automatically and it will take few minutes for the setup.)



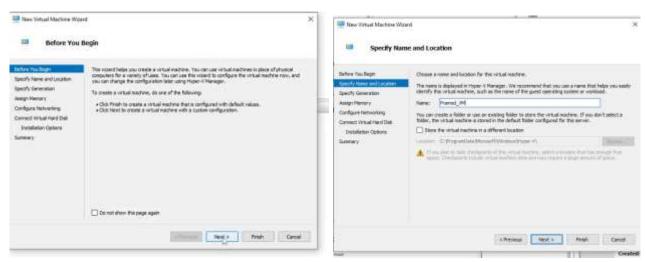
Step 5: Now in Start Search for Hyper V-manager and open it.



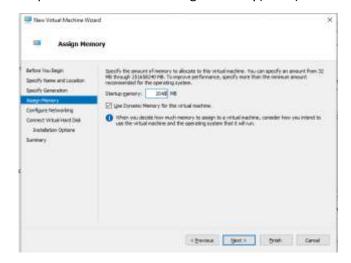
Step 6: Now click on the new-> Virtual Machine (Located on the right hand side of the tab) to create a virtual machine.



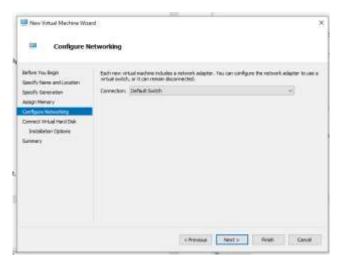
Step 7: Press next and then assign the name for virtual machine and click on next.



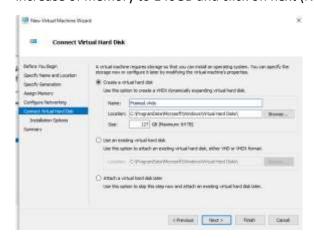
Step 8: Now in the next assign memory(RAM) 2048 or 4096 MB and click on next



Step 9: Now in the Configure networking section select Default switch and click on next.



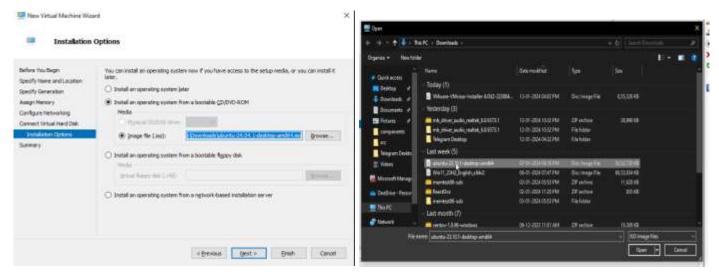
Step 10: Now in Connect Virtual Hard Disk Section select the location where you want to save the VM file And now increase of memory to 140GB and click on next (Note:select the drive which have atleast 140 GB free .)



Step 11: Now in Installation Option section Select "Install an operating system from cd/DVD-ROM",

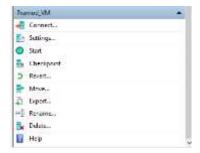
Then Click on Image file -> Browse.. and select the Ubuntu Iso file and click on next.

(This file in the TYCS\_CC\_SOFTWARE folder check in Lab 1-1)

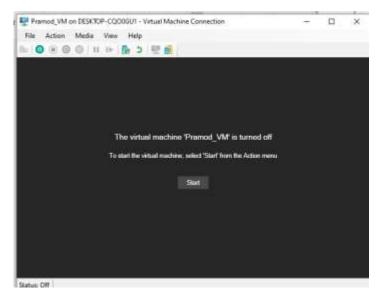


Step 12: Now click on the finish Now the Vm is created

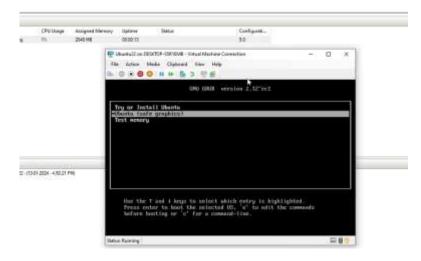
Step 13 : Now click on "Connect" located Right Handside in the Action (under the name of virtual machine which you have given.)



Step 14: Now click on start.



Step 15: Now use arrow keys and select the try or install ubuntu and press enter.



Step 16: And now wait for the ubuntu to complete its installation.

Step 17: Now open the terminal and execute the below commands in it.

## Commands

## Set 1:

- i) Display calendar of current year: cal
- ii) Display today's date: date
- iii) Display list of all users currently logged in: who
- iv) Display message "Hello World": echo "Hello World"
- v) Perform some calculation: bc (starts an interactive calculator)

## Set 2:

- i) Display present working directory: pwd
- ii) Display today's date and time in 2 different lines:bashdate +"%D"date +"%T"
- iii) Display your terminal address: tty
- iv) Display login name of user currently logged in: whoami
- v) Display all processes of the users: ps aux
- vi) Display all files and directories in current working directory: ls -l

```
tuBubuntu: 5 date + %D'
02/17/25
    ntumubuntu: 5 pwd
/home/ubuntu
 buntugübuntu: S date + ST
buntugubuntu:-$ tty
/dev/pts/0
 buntugubuntu: $ whoamt
ubuntu
ubuntudubuntu: $ ps aux
                 PID KCPU %MEM
                                           VSZ RSS TTY
                                                                       STAT START
USER
                                                                                          TIME COMMAND
                    PID NCPU WMEM VSZ RSS TTY

1 0.1 0.3 167984 13380 ?

2 0.0 0.0 0 0 ?

3 0.0 0.0 0 0 ?

4 0.0 0.0 0 0 ?

5 0.0 0.0 0 0 ?

6 0.0 0.0 0 0 ?

7 0.1 0.0 0 0 ?

10 0.0 0.0 0 0 ?
                                                                       Ss 08:06
                                                                                         0:01 /sbin/init ma
root
                                                                               08:06
                                                                                         0:00 [kthreadd]
                                                                                         0:00 [rcu_gp]
0:00 [rcu_par_gp]
0:00 [slub_flushwq
0:00 [netns]
                                                                               08:00
                                                                              08:06
                                                                               08:06
                    6 0.0 0.0
7 0.1 0.0
10 0.0 0.0
11 0.0 0.0
                                                                       1<
                                                                              08:06
                                                                                           0:01 [kworker/0:8-
                                                                               08:06
                                                                               08:06
                                                                                           0:00
                                                                                                  [mm_percpu_wq
                                                                               08:06
                                                                                           6:00
                                                                                                  [rcu_tasks_kt
```

```
ubuntu@ubuntu:=$ ls -l
total 0
drwxr-xr-x 2 ubuntu ubuntu 60 Feb 17 08:06 Desktop
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Documents
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Downloads
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Music
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Pictures
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Public
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:07 Snap
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Templates
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 17 08:08 Videos
ubuntu@ubuntu:=$
```

- i) Display content of file: cat filename
- ii) Copy the given file: cp filename destination
- iii) Rename the given file: mv oldname newname
- iv) Delete the given file: rm filename
- v) Exit: exit or press Ctrl+D

