## Exp. No:7b

Date: 25.08.25 Creation of VM, Powershell commands, Management

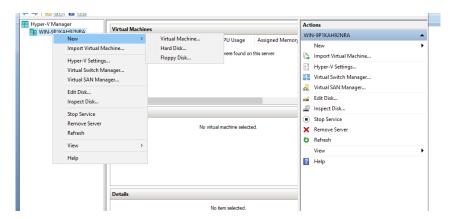
### Aim:

To create and manage Virtual Machines (VMs) using Hyper-V, including PowerShell commands for automation and efficient administration.

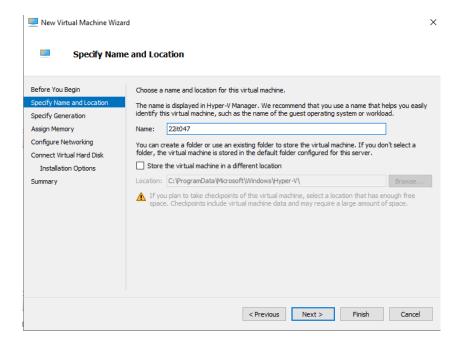
### **Procedure:**

## (VM installation without powershell)

1) Open Tools-> hyper v manager-> right click on server and click create new vm

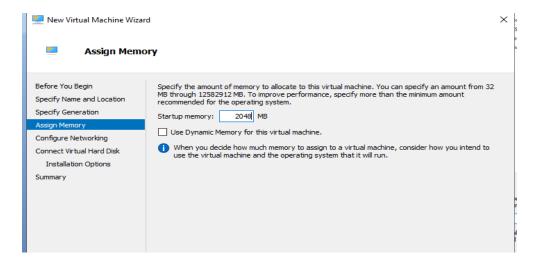


2) Specify name and location click next.

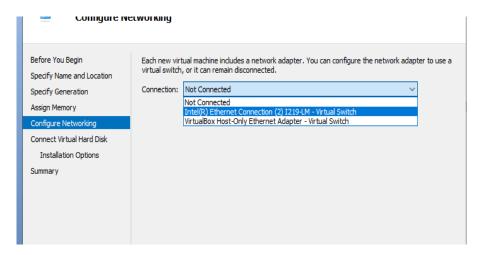


3) Assign the memory for the vm(for safety give as 2gb)

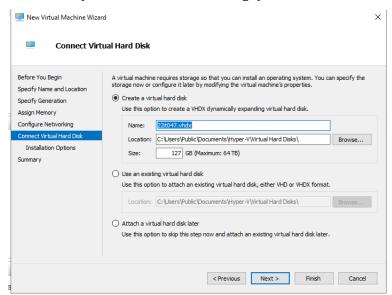
#### 22IT047-LAKSHMAN I



4) Conigure the network click on interR Ethernet connection virtual switch

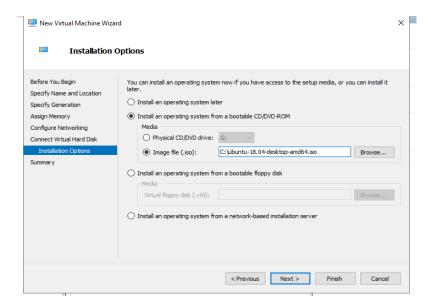


5) Connect virtual harddisk (name,location,maximum gb) click next.

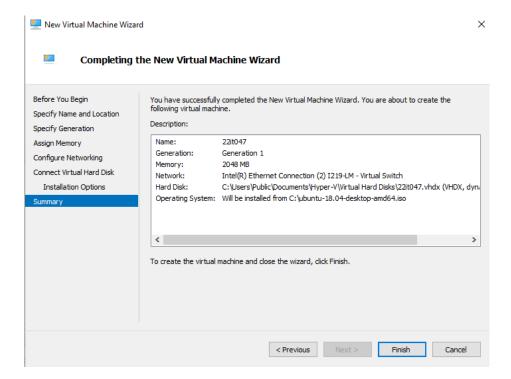


6) Import the iso file which os need to install on the vm(here ubunttu)

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# 7) Click finish



# VM installation using Powershell Procedure:

1) Create vm with name and space in gb with virtual hard disk creation



```
PS C:\Users\Administrator> New-VM -Name "tcevm" -MemoryStartupBytes 2GB -NewVHDPath "D:\tcevm.vhdx" -NewVHDSizeBytes 60GB -Path "D:\"

Name State CPUUsage(%) MemoryAssigned(M) Uptime Status Version
tcevm Off 0 0 00:00:00 Operating normally 9.0
```

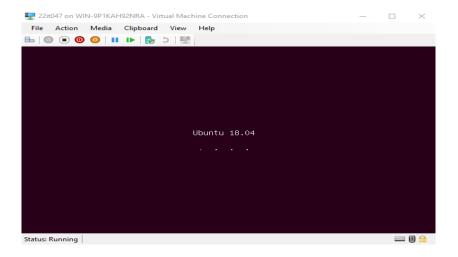
2) Asssign virtual switch to the vm

```
PS C:\Users\Administrator> Connect-VMNetworkAdapter -VMName "tcevm" -SwitchName "Intel(R) Ethernet Connection (2) I219-L
M - Virtual Switch"
PS C:\Users\Administrator>
```

3) Import the iso file which os need to install on vm

```
PS C:\Users\Administrator> Connect-VMNetworkAdapter -VMName "tcevm" -SwitchName "Intel(R) Ethernet Connection (2) I219-L
M - Virtual Switch"
PS C:\Users\Administrator> Set-VMDvdDrive -VMName "tcevm" -Path "C:\ubuntu-18.04-desktop-amd64.iso"
PS C:\Users\Administrator> _
```

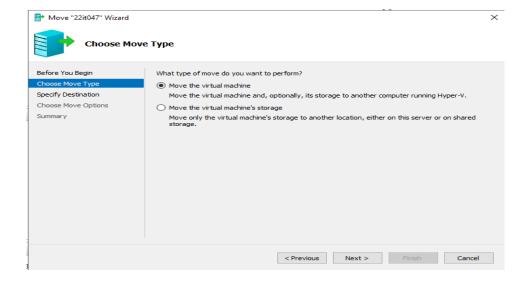
4) Start the vm



## **Powershell commands**

1) Get VM, start VM and stop VM

# Migration (Right click the VM and click move) and give finish.



### **Result:**

Thus, the creation and manage Virtual Machines (VMs) using Hyper-V, including PowerShell commands for automation and efficient administration has been executed successfully.