

CLOUD COMPUTING

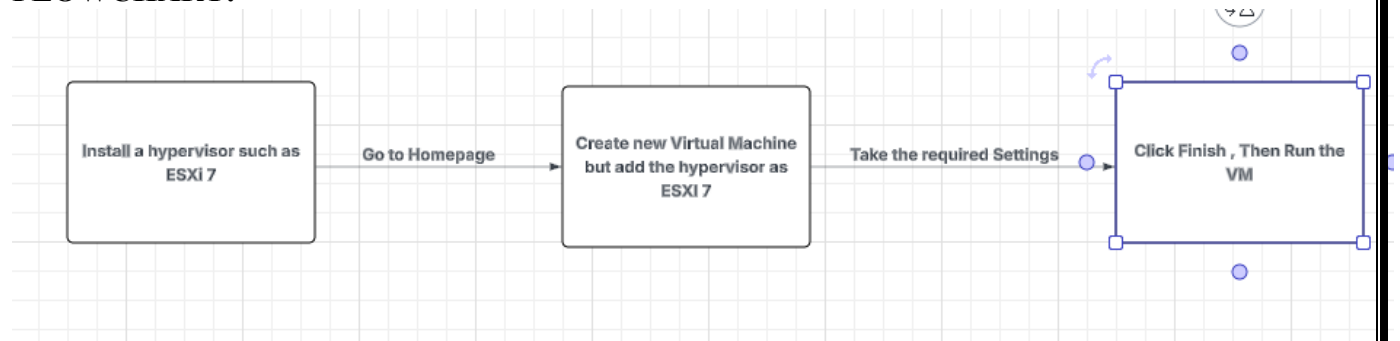
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Experiment No. 03:

TITLE:

To Deploy Virtual Machine on hypervisor such as KVM, ESXI 7. Take Backup and migrate them.

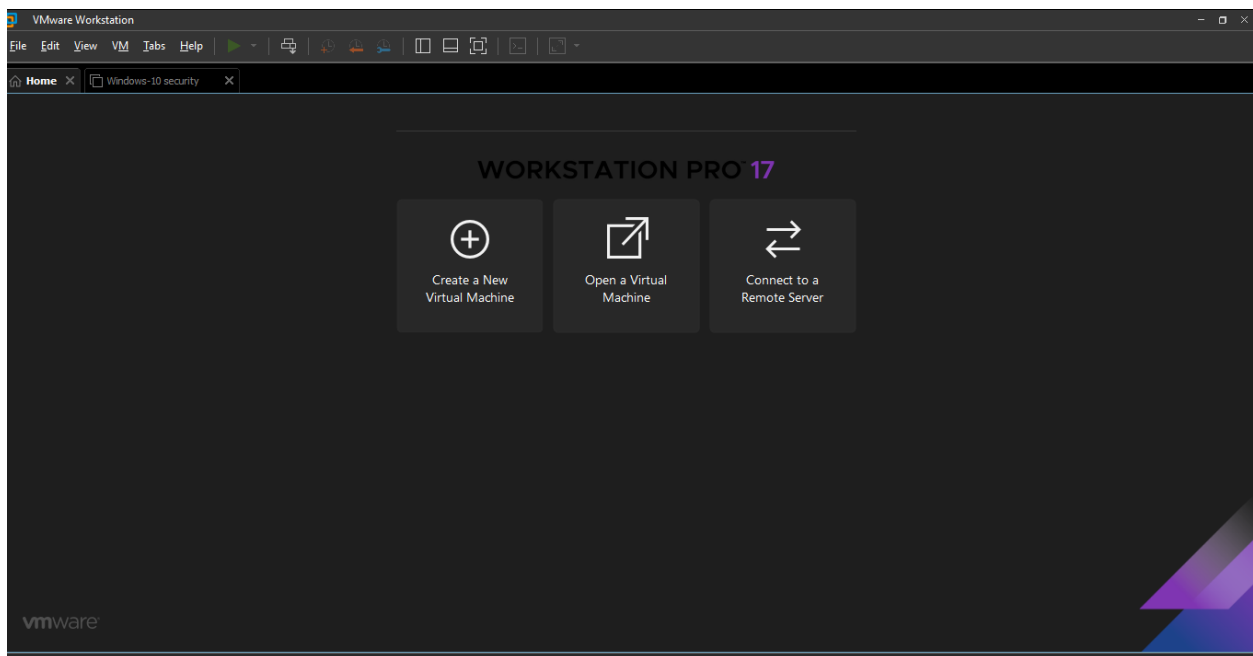
FLOWCHART:



STEPS:

- 1) Install a Hypervisor such as ESXI 7.

Home page:



- 2) Click on create a New Virtual Machine. Click on custom, select the hypervisor you installed, select the disk, select the name and the storage size.

Guest Operating System Installation

A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:


☐ Installer disc:

 DVD RW Drive (D:) ▼

☒ Installer disc image file (iso):

ware-VMvisor-Installer-7.0U3f-20036589.x86_64.iso ▼

Browse...

 VMware ESXi 7 detected.

☐ I will install the operating system later.

The virtual machine will be created with a blank hard disk.

Help

< Back

Next >

Cancel

New Virtual Machine Wizard

×

Specify Disk Capacity
How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):

Recommended size for VMware ESXi 7: 142 GB

☐ Store virtual disk as a single file

☒ Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

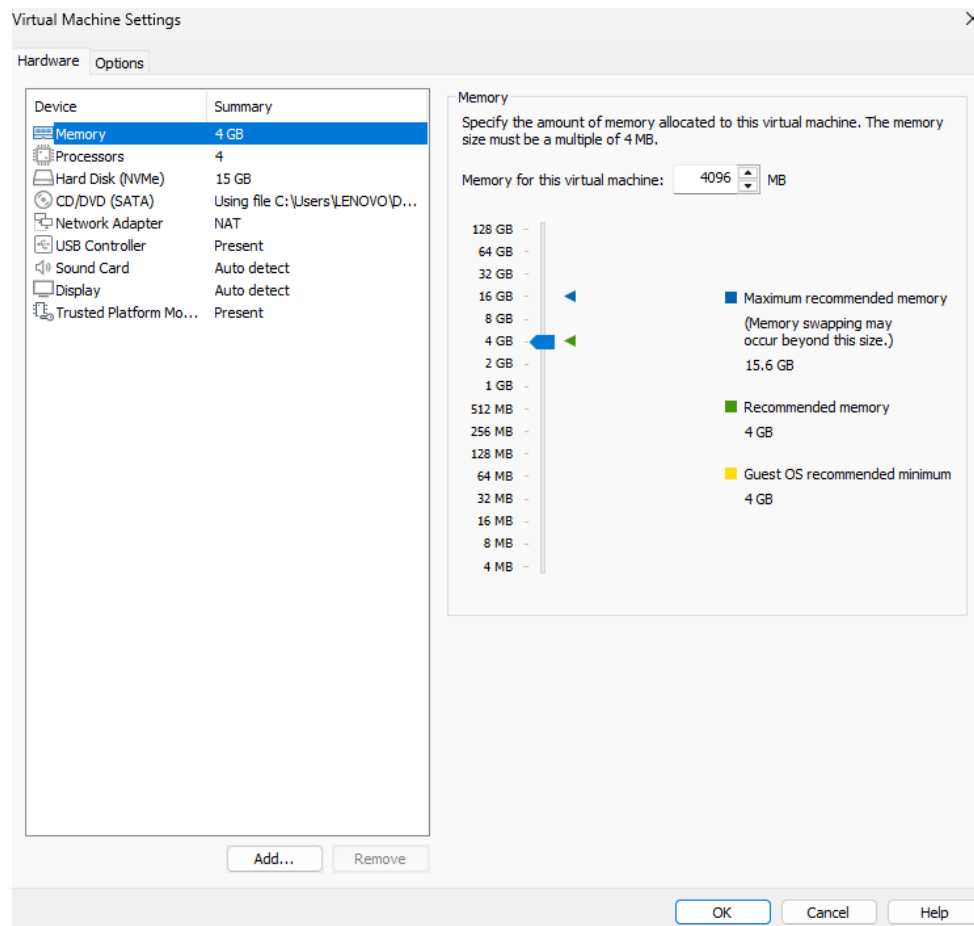
Help

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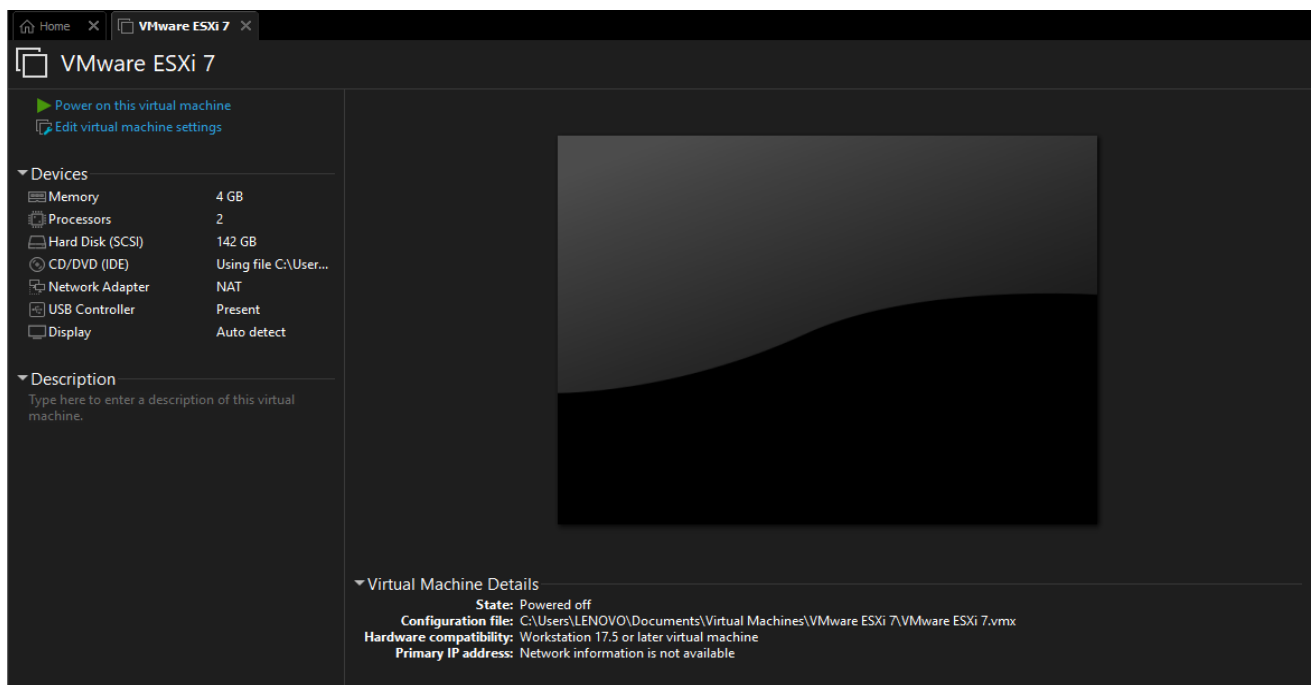
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Cancel

3) Click on finish. The virtual machine should be now visible in library. Now click on Edit Virtual Machine settings.



Now you can run the virtual machine –



CONCLUSION:

In this experiment, we successfully installed an operating system inside a VM using VirtualBox/VMware Workstation, added additional storage, and deployed a VM on enterprise-grade hypervisors such as KVM and ESXi. We also learned how to take VM backups and migrate them between hosts or datastores. These skills are fundamental in cloud computing environments where virtualization, high availability, and disaster recovery are critical.