LAB MANUAL

CSA1517 - CLOUD COMPUTING AND BIG DATA ANALYTICS FOR HADOOP APPLICATIONS

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EXP 14: CREATE AVIRTUAL HARD DISK AND ALLOCATE THE STORAGEUSING VM WARE WORKSTATION.

DATE:

AIM: To create a virtual hard disk and allocate the storage using vm ware workstation

PROCEDURE:

STEP 1:GOTO VM WARE WORKSTATION.
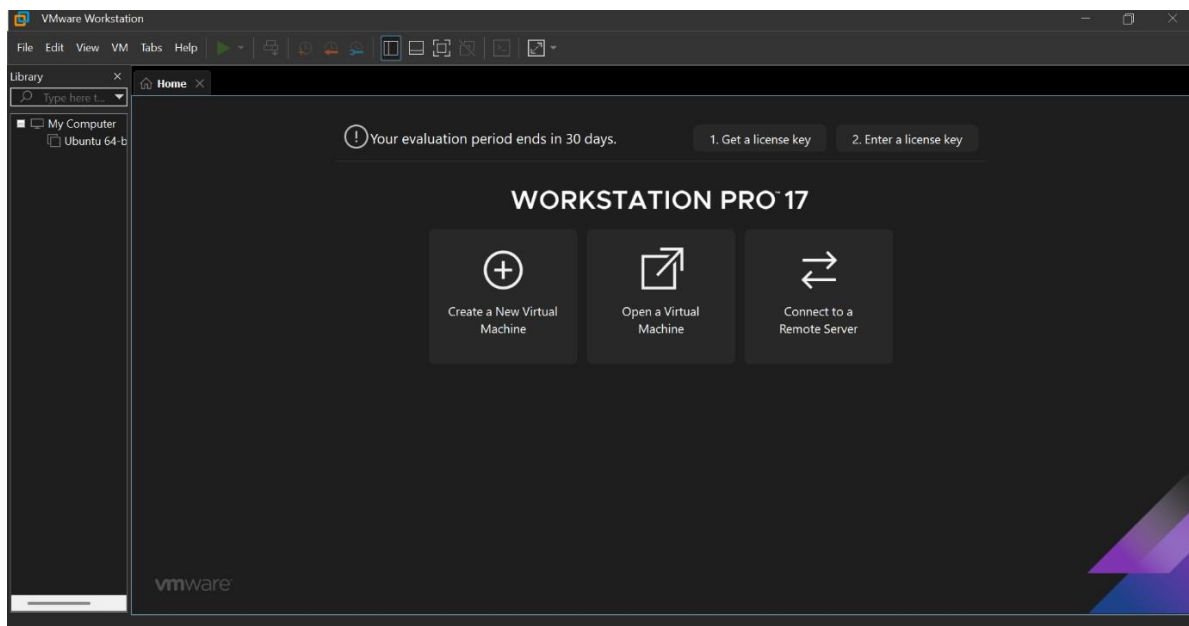
STEP2: RIGHT CLICK THE VM AND GOTO THE SETTINGS.

STEP 3: ADD HARDWARE WIZARD AND SELECT SCSI AND CLICK NEXT.

STEP 4: CREATE NEW VIRTUAL DISK.

STEP 5: SELCT THE DISK SIZE AS 2.0. AND SELCT SPLIT VIRTUAL DISK INTOMULTIFILES.

STEP 6: GIVE NAME AND CLICK THE FINISH.

DESIGN:

New Virtual Machine Wizard

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vmware®
WORKSTATION
PRO™
17

Welcome to the New Virtual Machine Wizard

What type of configuration do you want?

◉ Typical (recommended)

Create a Workstation 17.x virtual machine in a few easy steps.

◯ Custom (advanced)

Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.

| Help | | < Back | Next > | Cancel |

New Virtual Machine Wizard

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:

No drives available

● Installer disc image file (iso):

C:\CSA15 SOFTWARES\ubuntu-18.04.3-desktop-amd6 ∨   Browse...

ⓘ Ubuntu 64-bit 18.04.3 detected.
This operating system will use Easy Install. (What's this?)

○ 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

Easy Install Information
This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: tarunreddy

User name: tarunreddy

Password: ••••••••

Confirm: ••••••••

Help		< Back	Next >	Cancel

New Virtual Machine Wizard

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Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu 64-bit

Location:

C:\Users\ngova\OneDrive\Documents\Virtual Machines\Ubuntu 6

Browse...

The default location can be changed at Edit > Preferences.

< Back   Next >   Cancel

New Virtual Machine Wizard   ✕

Name the Virtual Machine
        What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu 64-bit vm 1

Location:

C:\Users\ngova\OneDrive\Documents\Virtual Machines\Ubuntu 6‹   Browse...

The default location can be changed at Edit > Preferences.

                                    < 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):   20.0

Recommended size for Ubuntu 64-bit: 20 GB

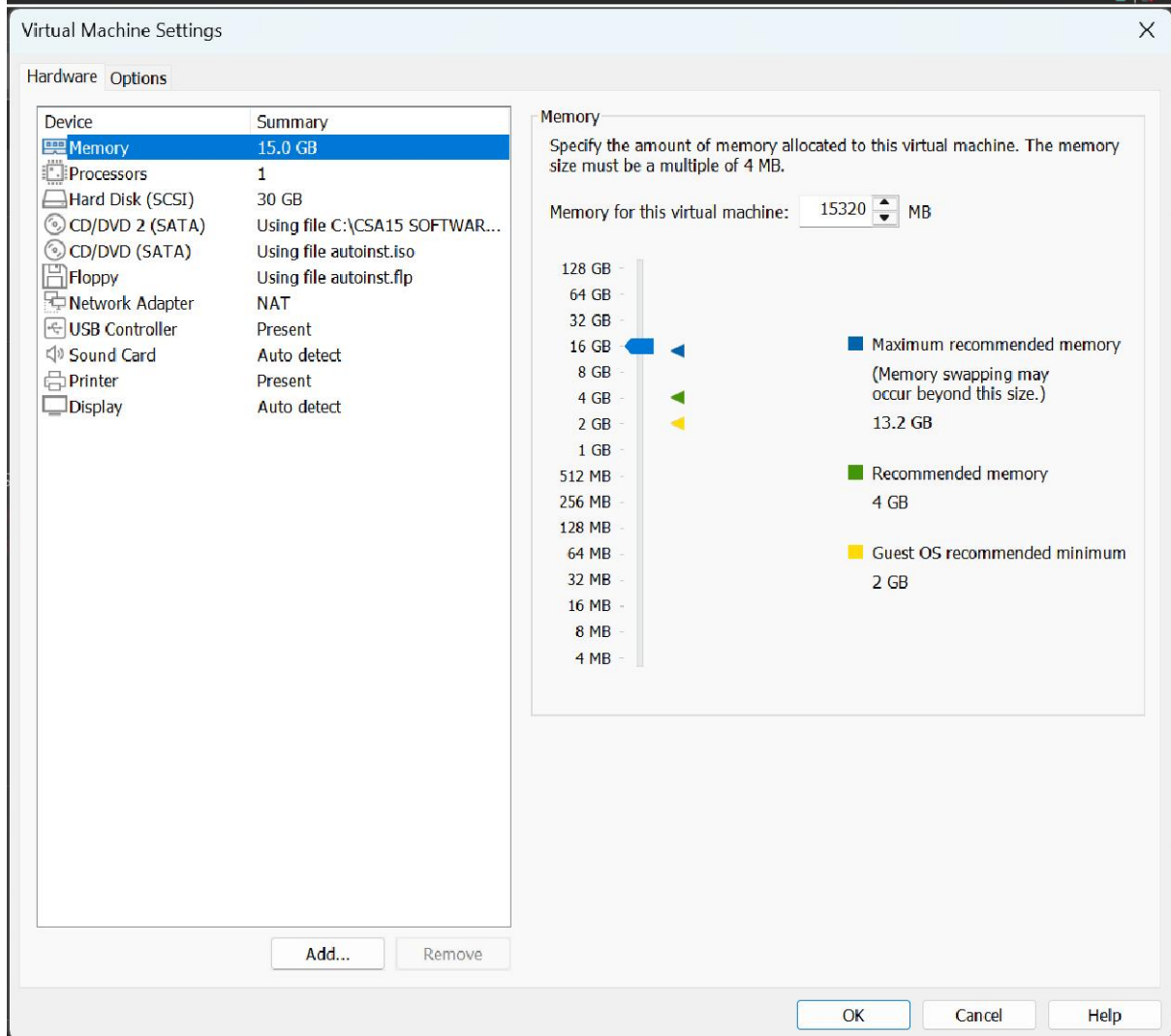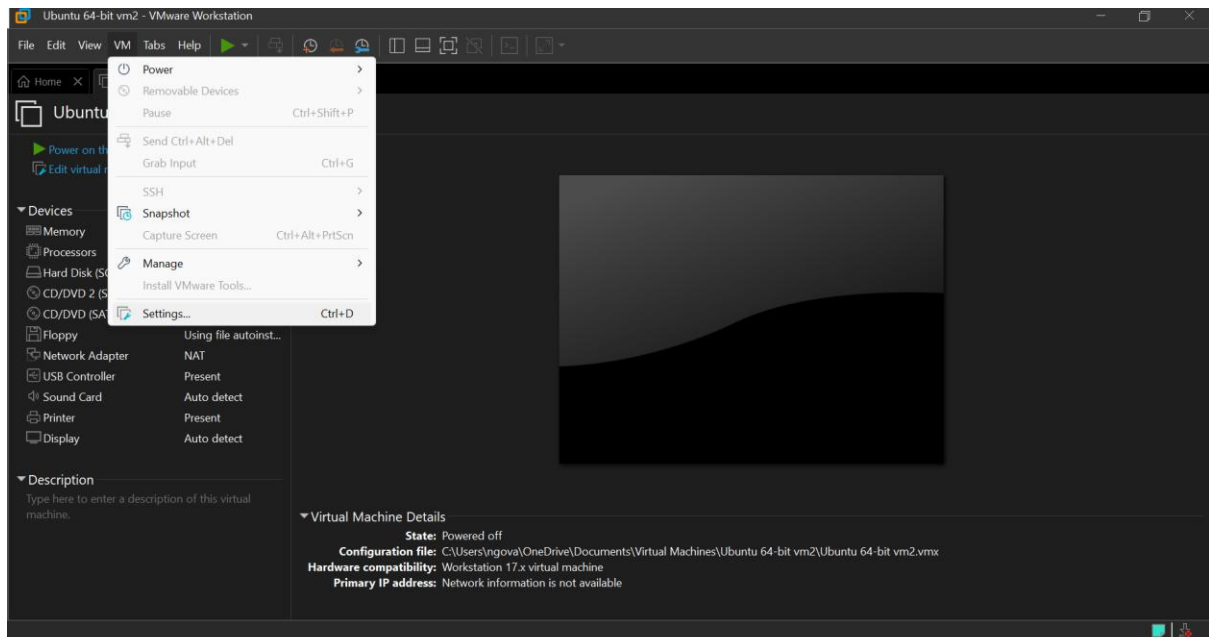○ Store virtual disk as a single file

● 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 | | < Back | Next > | Cancel |

Add Hardware Wizard　　　　　　　　　　　　　　　　　　　　　　　　✕

Hardware Type
What type of hardware do you want to install?

Hardware types:

- 🖴 Hard Disk
- 💿 CD/DVD Drive
- 💾 Floppy Drive
- 🖧 Network Adapter
- 🔌 USB Controller
- 🔊 Sound Card
- 🖵 Parallel Port
- 🔲 Serial Port
- 🖶 Printer
- ◇ Generic SCSI Device
- 🔒 Trusted Platform Module

Explanation

Add a hard disk.

[< Back]　[Next >]　[Cancel]

Add Hardware Wizard   ✕

Select a Disk Type
What kind of disk do you want to create?

Virtual disk type

- ⭕ IDE
- 🔘 SCSI   (Recommended)
- ⭕ SATA
- ⭕ NVMe

< Back   Next >   Cancel

Add Hardware Wizard

Select a Disk

Which disk do you want to use?

Disk

● **Create a new virtual disk**

A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

○ **Use an existing virtual disk**

Choose this option to reuse a previously configured disk.

○ **Use a physical disk (for advanced users)**

Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.

[< Back] [Next >] [Cancel]

Add Hardware Wizard   ✕

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

Maximum disk size (GB):   [20.0] ⬍

Recommended size for Ubuntu 64-bit: 20 GB

☐ Allocate all disk space now.

Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

○ 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.

[< Back]   [Next >]   [Cancel]
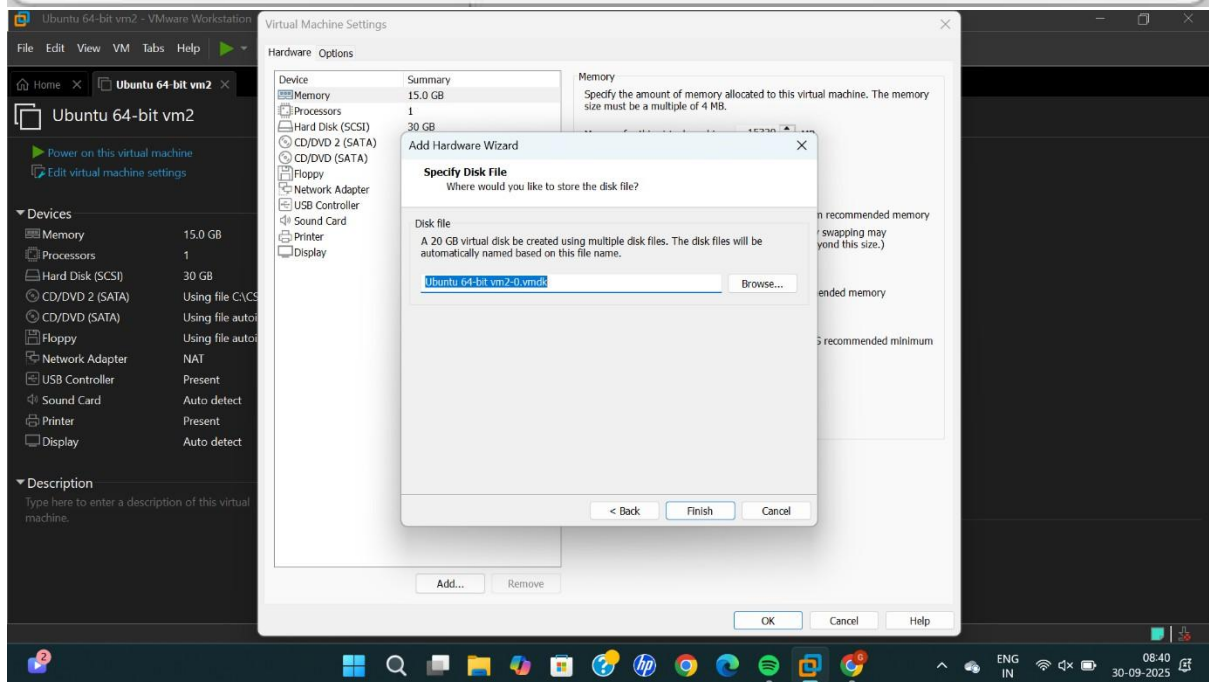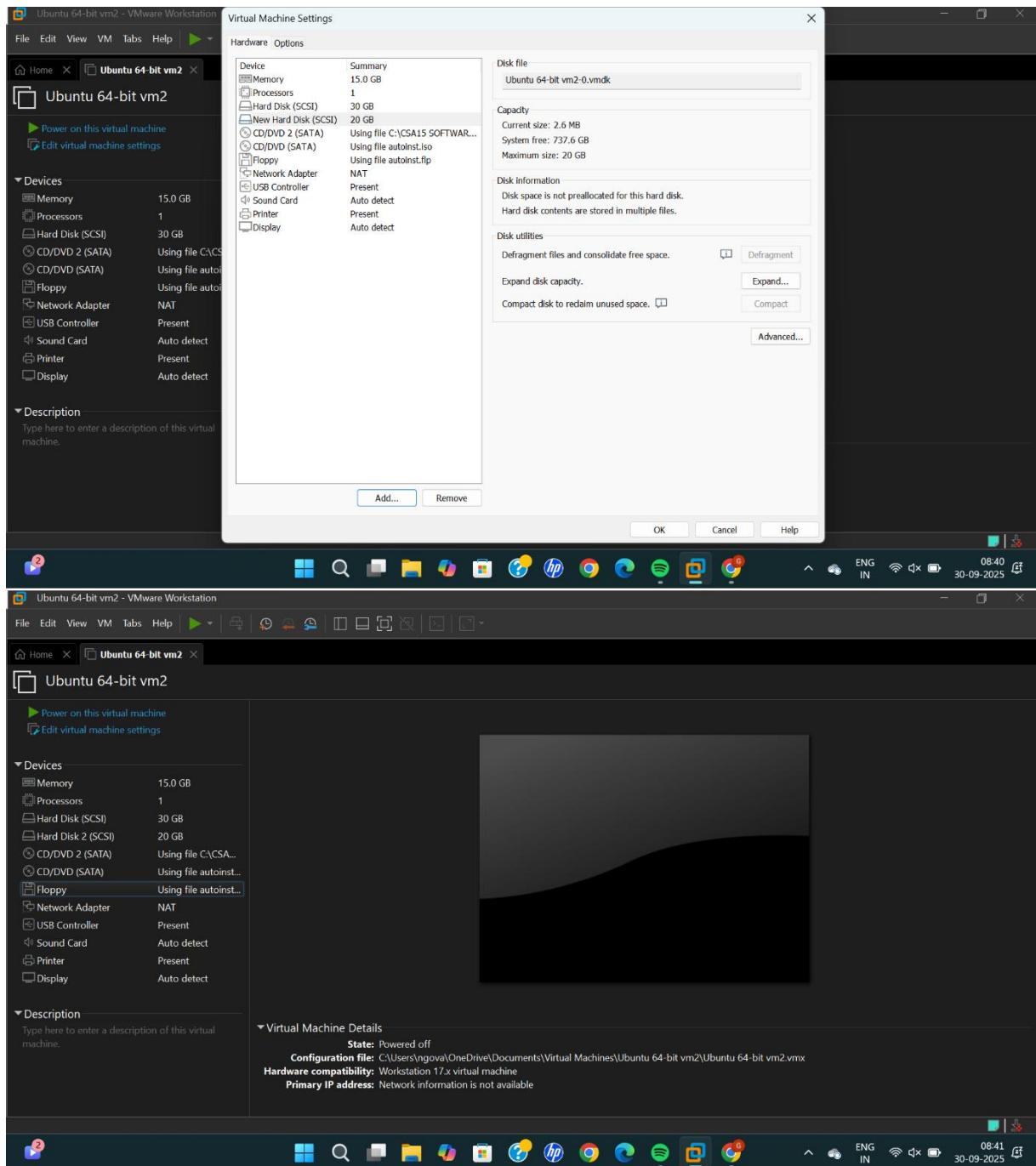
Add Hardware Wizard

Specify Disk File
Where would you like to store the disk file?

Disk file

A 20 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.

Ubuntu 64-bit vm2-0.vmdk | Browse...

< Back | Finish | Cancel

RESULT:

Successfully created a virtual hard disk and allocate the storage using vm ware workstation.