

LAB EXPERIMENTS

CSA1517

**CLOUD COMPUTING AND BIG
DATA ANALYTICS FOR HADOOP
APPLICATIONS**

**P.SAHITH SAI
(192425029)**

EXPERIMENT – 16 CREATE A CLONING OF A VM AND TEST IT BY LOADING THE PREVIOUS VERSION/CLONED VM USING VMWARE WORKSTATION

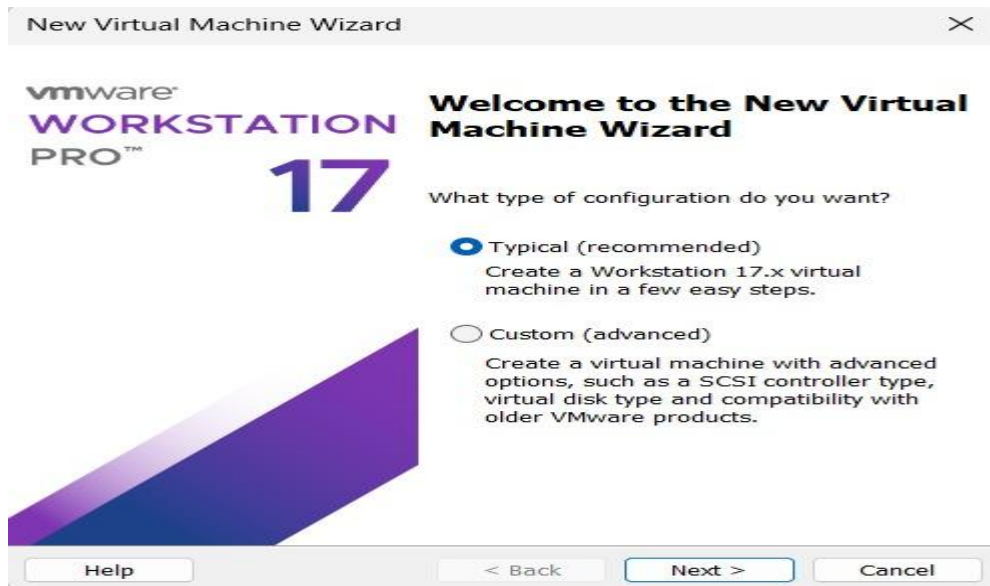
Aim:

To create a clone of a virtual machine and test it by loading the cloned VM using VMware Workstation.

Procedure:

1. Open VMware Workstation and select the virtual machine to be cloned.
2. Ensure the VM is powered off before cloning.
3. Go to VM → Manage → Clone.
4. The Clone Wizard will appear → Click Next.
5. Select Clone from an existing snapshot or current state.
6. Choose Full Clone (creates a complete independent copy) or Linked Clone (shares virtual disks with parent).
7. Provide a name and location for the cloned VM.
8. Click Finish → VMware will create the cloned VM.
9. Once created, power on the cloned VM from the VMware Workstation library.
10. Test the cloned VM to verify it loads properly and works independently of the original VM.

Output:



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):

Browse...

☒ 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

Select a Guest Operating System

Which operating system will be installed on this virtual machine?

Guest operating system

☐ Microsoft Windows

☒ Linux

☐ VMware ESX

☐ Other

Version

Ubuntu

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 Ubuntu: 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

New Virtual Machine Wizard



Ready to Create Virtual Machine

Click Finish to create the virtual machine. Then you can install Ubuntu.

The virtual machine will be created with the following settings:

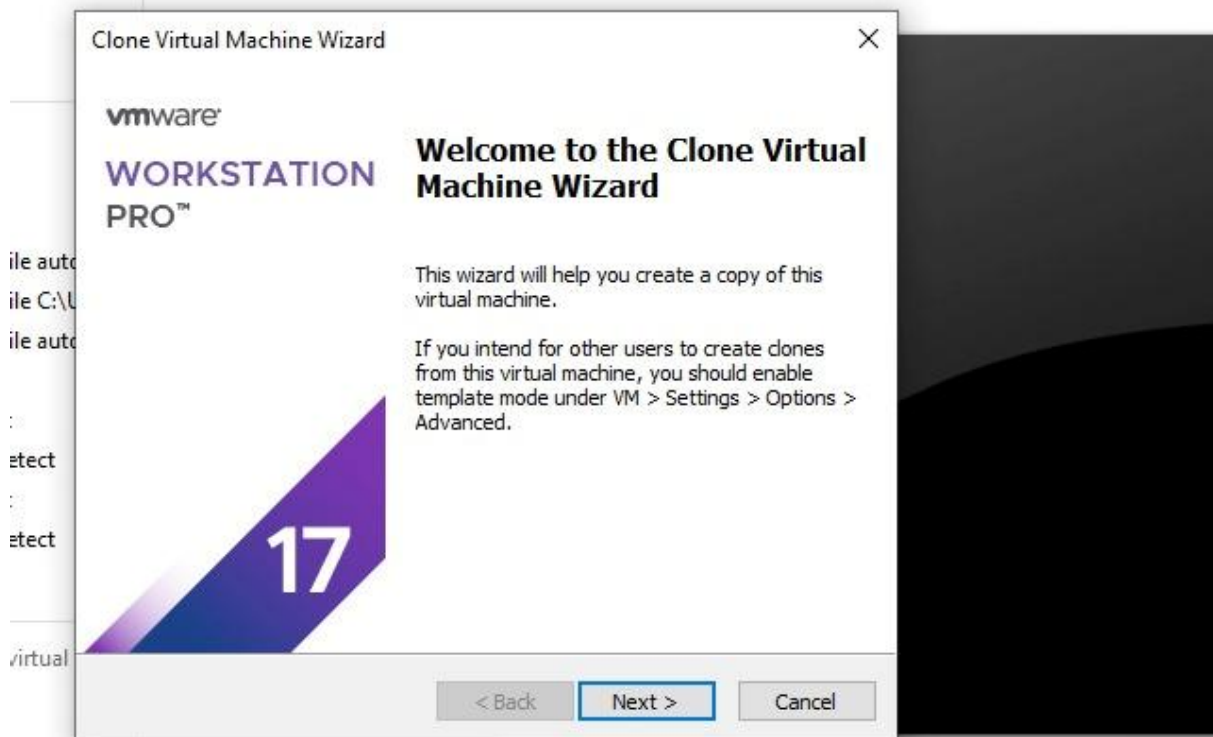
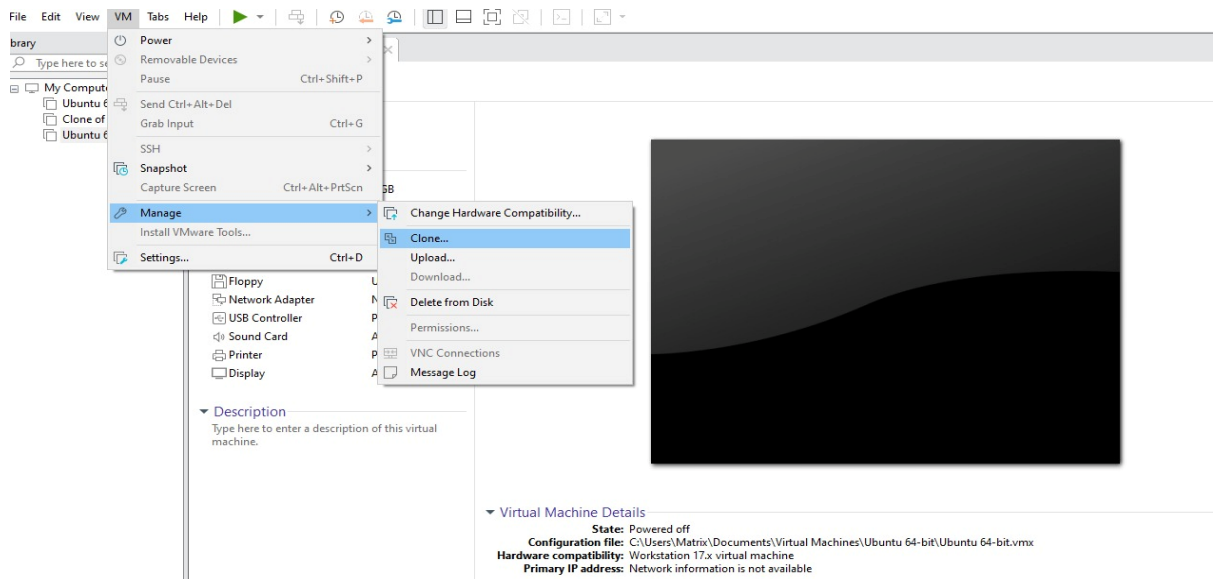
Name:	vm 01
Location:	C:\Users\RACHITHA\Documents\Virtual Machines\vm 01
Version:	Workstation 16.x
Operating System:	Ubuntu
Hard Disk:	20 GB, Split
Memory:	4096 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound C...

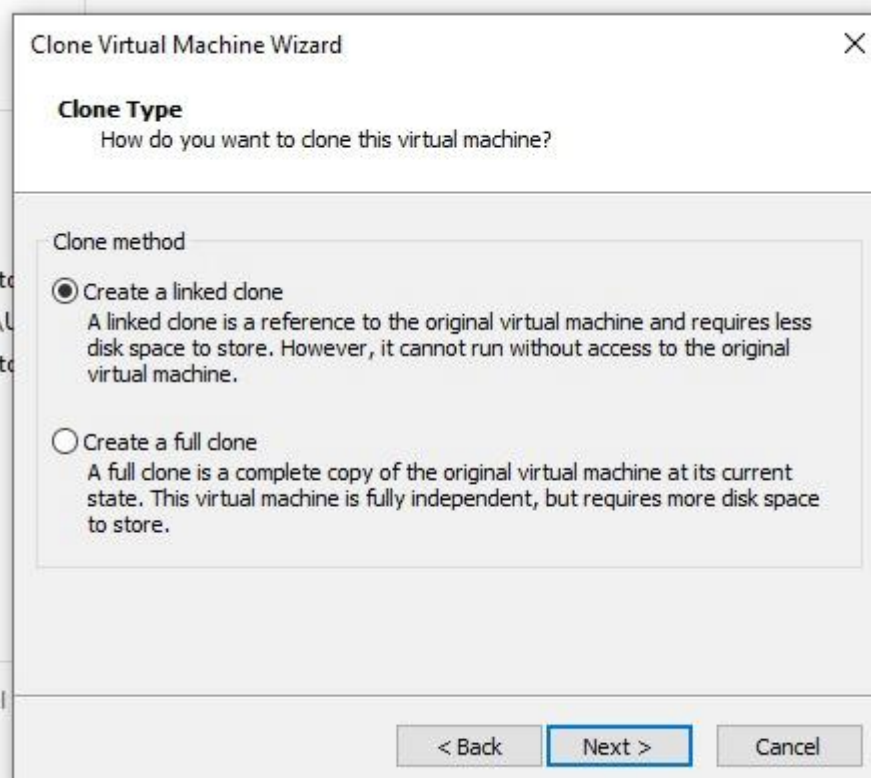
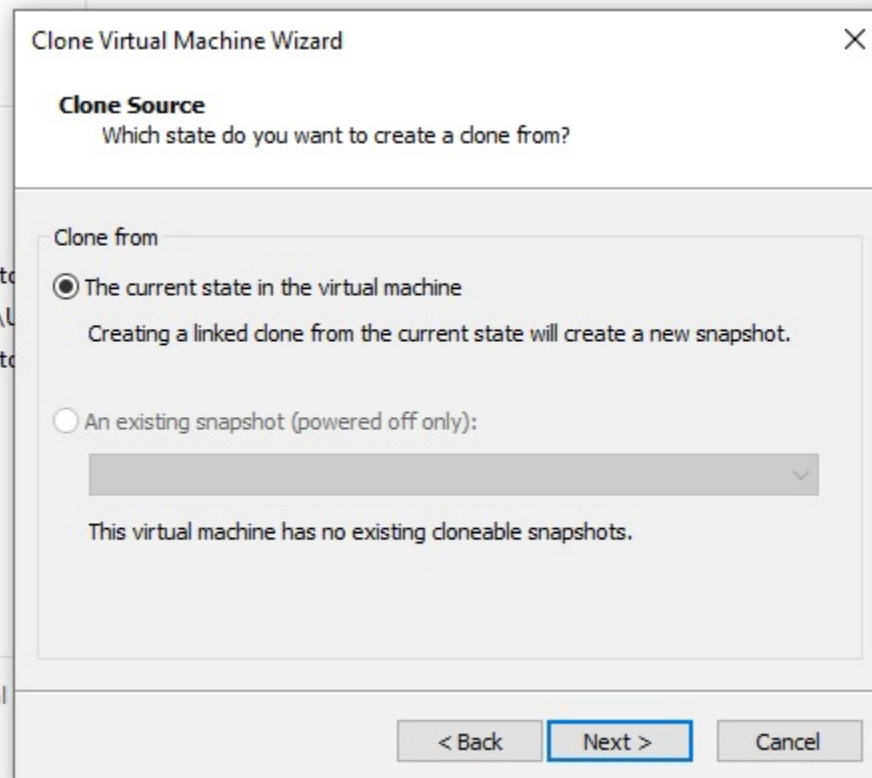
Customize Hardware...

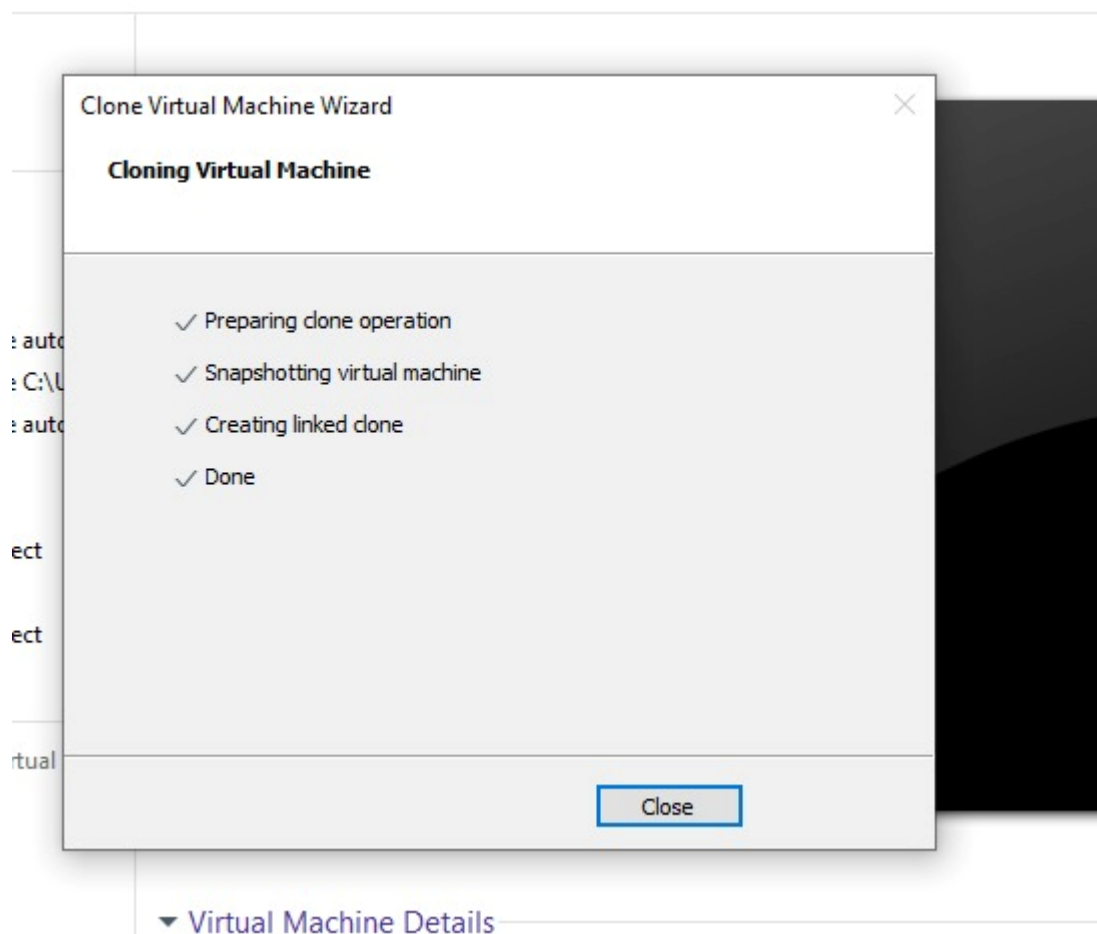
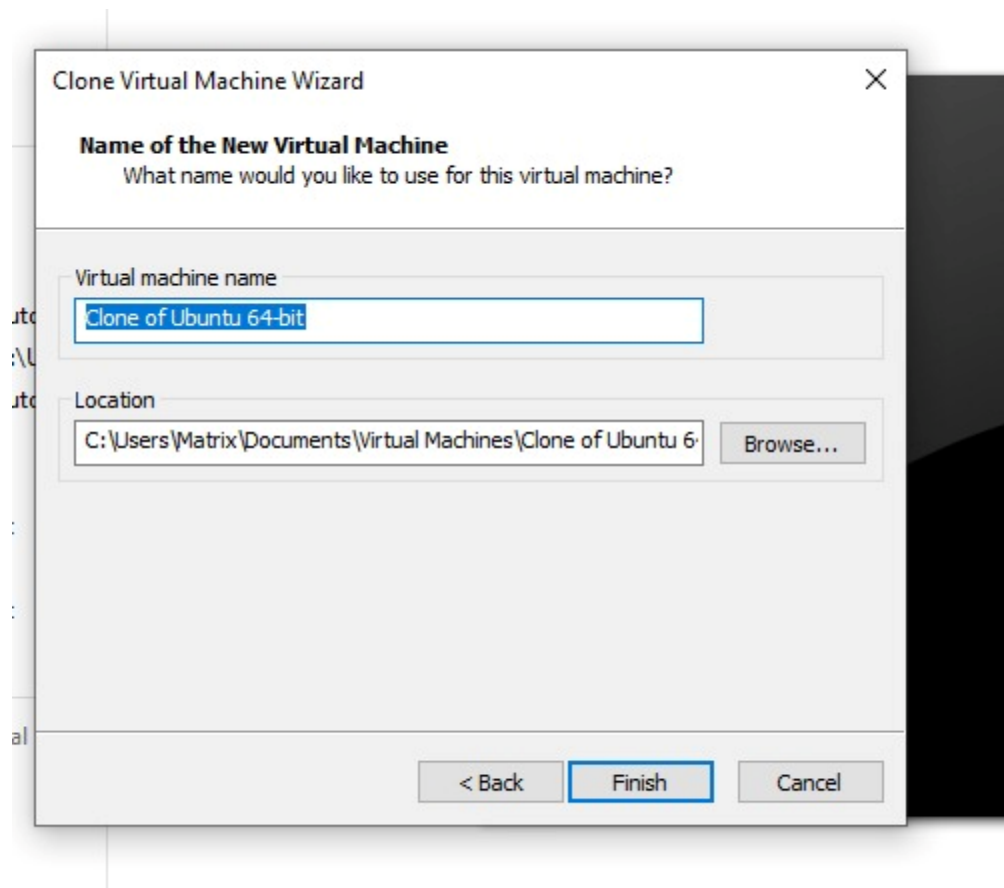
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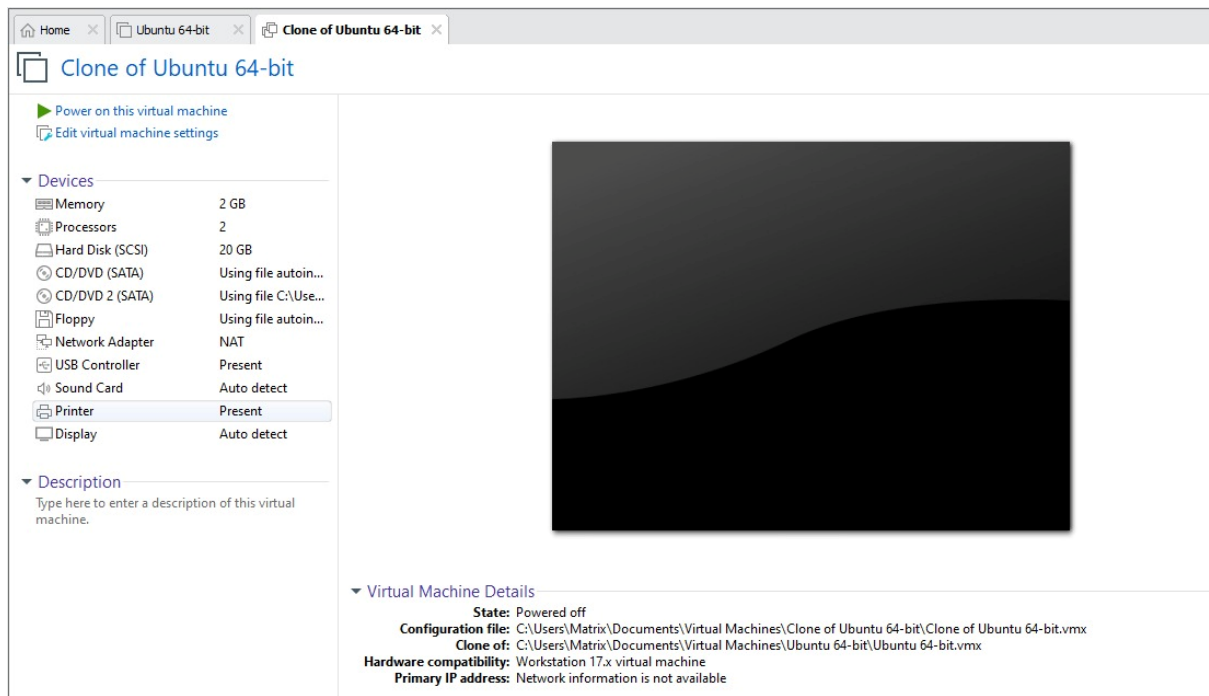
Finish

Cancel









Result:

A clone of the VM was successfully created and tested. The cloned VM loaded correctly and functioned independently from the original VM, demonstrating the cloning feature of VMware Workstation.