EXPERIMENT -15

Aim

To create a snapshot of a virtual machine (VM) using VMware Workstation and verify its functionality by reverting to the snapshot or creating and running a cloned VM.

Procedure

Step 1: Launch VMware Workstation

1. Open VMware Workstation on your system.
2. Select the virtual machine you wish to manage from the left panel.

Step 2: Shut Down the Virtual Machine

- Shut down the VM to ensure a clean snapshot (optional but recommended).

Step 3: Take a Snapshot

1. Click on the **VM** menu.
2. Select **Snapshot** → **Take Snapshot**.
3. Enter a name (e.g., "Before Update") and an optional description.
4. Click **Take Snapshot** to save the VM's current state.

Step 4: Make System Changes (Optional)

- Start the VM and install software or make system changes for testing purposes.

Step 5: Revert to the Snapshot

1. Go to **VM** → **Snapshot** → **Snapshot Manager**.
2. Select your previously saved snapshot.
3. Click **Go To** to restore the VM to that state.

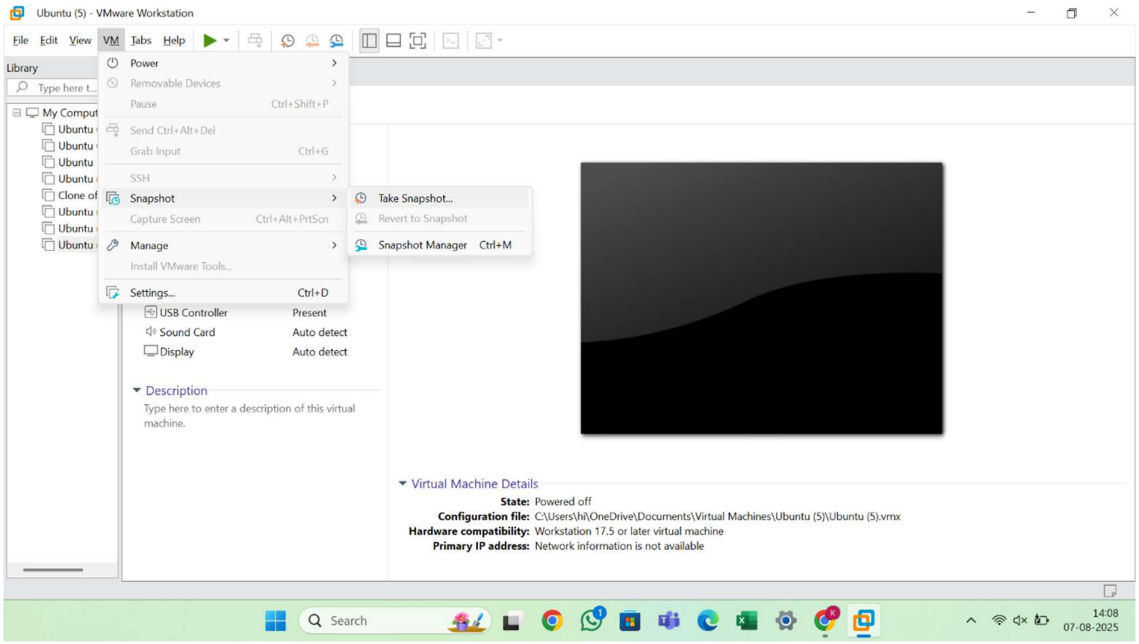
Step 6: Clone the VM (Optional Alternative)

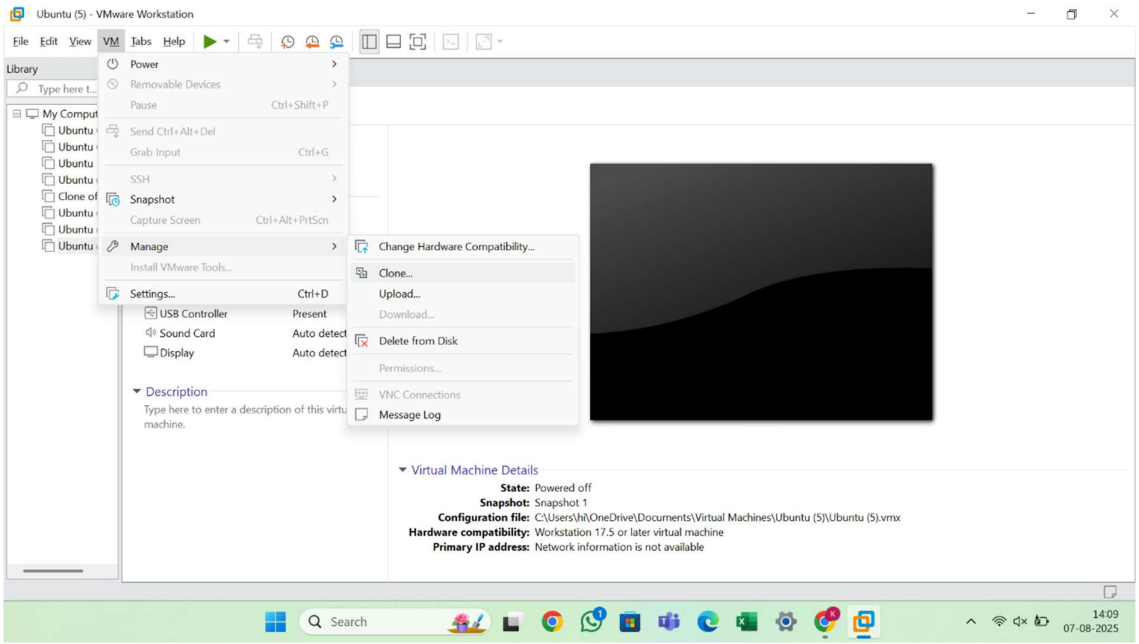
1. Shut down the VM again.
2. Go to **VM** → **Manage** → **Clone**.
3. Choose:
    - **Clone from Snapshot** (to use saved snapshot)
    - **Create a Full Clone** (for independent use)

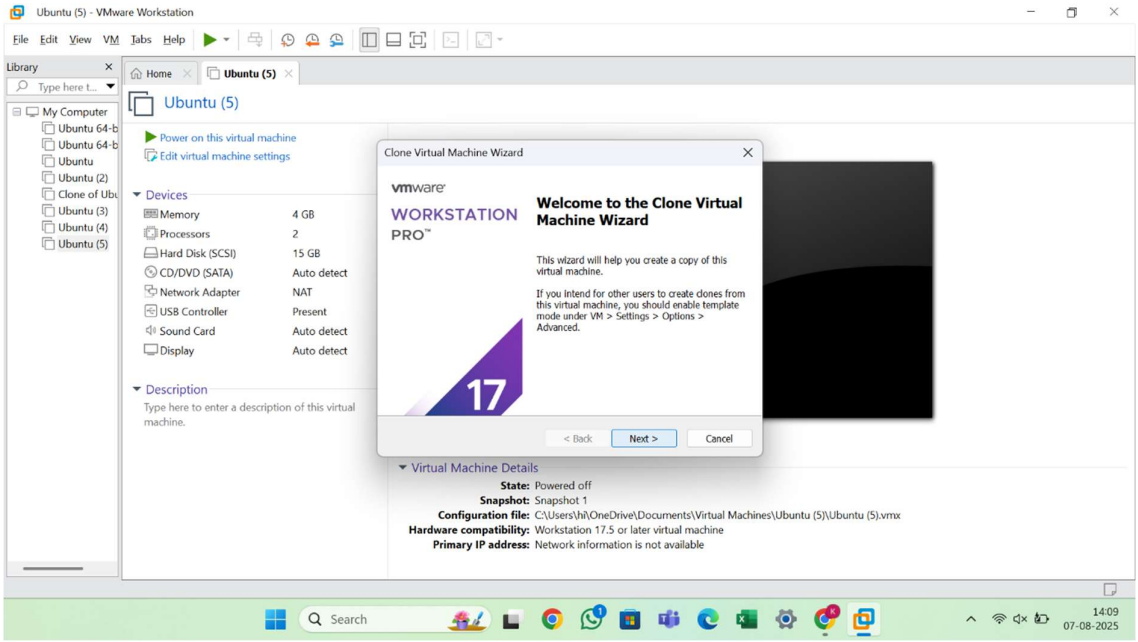
4. Name and save the clone in your desired location.

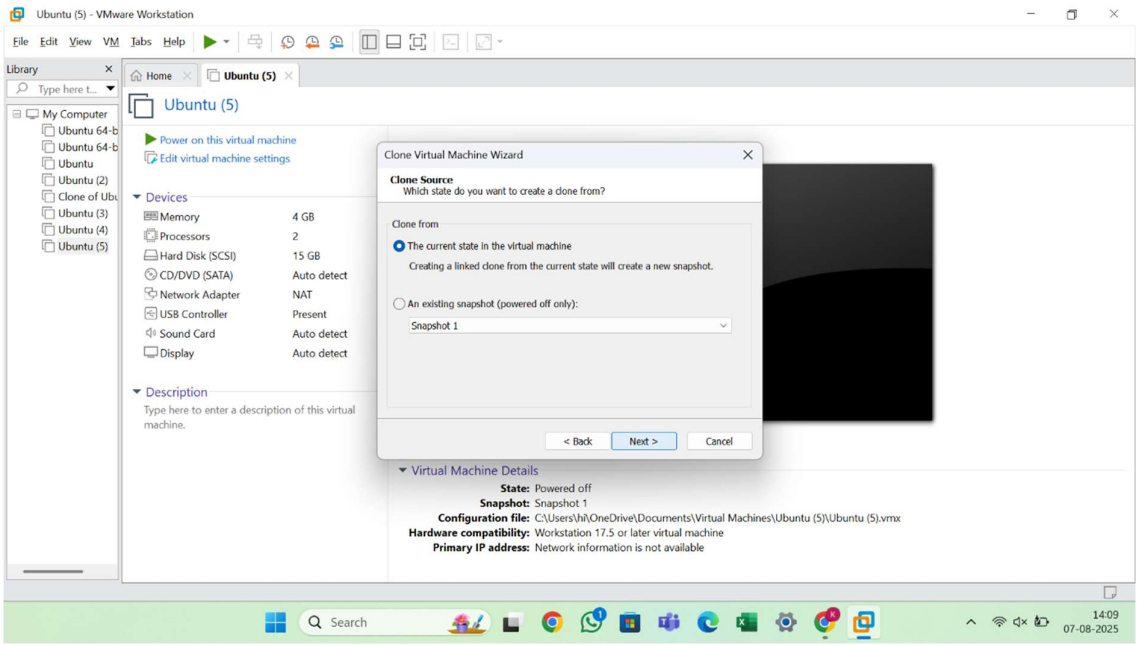
Step 7: Run the Cloned VM

- Power on the cloned VM and verify that it runs as expected, matching the state of the snapshot.






Ubuntu (5) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
Ubuntu 64-b
Ubuntu 64-b
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Ubuntu (4)
Ubuntu (5)
Home
Ubuntu (5)
Ubuntu (5)
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 2
Hard Disk (SCSI) 15 GB
CD/DVD (SATA) Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Display Auto detect
Description
Type here to enter a description of this virtual machine.
Clone Virtual Machine Wizard
vmware
WORKSTATION PRO™
17
Welcome to the Clone Virtual Machine Wizard
This wizard will help you create a copy of this virtual machine.
If you intend for other users to create clones from this virtual machine, you should enable template mode under VM > Settings > Options > Advanced.
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Snapshot: Snapshot 1
Configuration file: C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu (5)\Ubuntu (5).vmx
Hardware compatibility: Workstation 17.5 or later virtual machine
Primary IP address: Network information is not available
Search
14:09
07-08-2025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Devices
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Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Display Auto detect
Description
Type here to enter a description of this virtual machine.
Clone Virtual Machine Wizard
Clone Source
Which state do you want to create a clone from?
Clone from
The current state in the virtual machine
Creating a linked clone from the current state will create a new snapshot.
An existing snapshot (powered off only):
Snapshot 1
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Snapshot: Snapshot 1
Configuration file: C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu (5)\Ubuntu (5).vmx
Hardware compatibility: Workstation 17.5 or later virtual machine
Primary IP address: Network information is not available
Search
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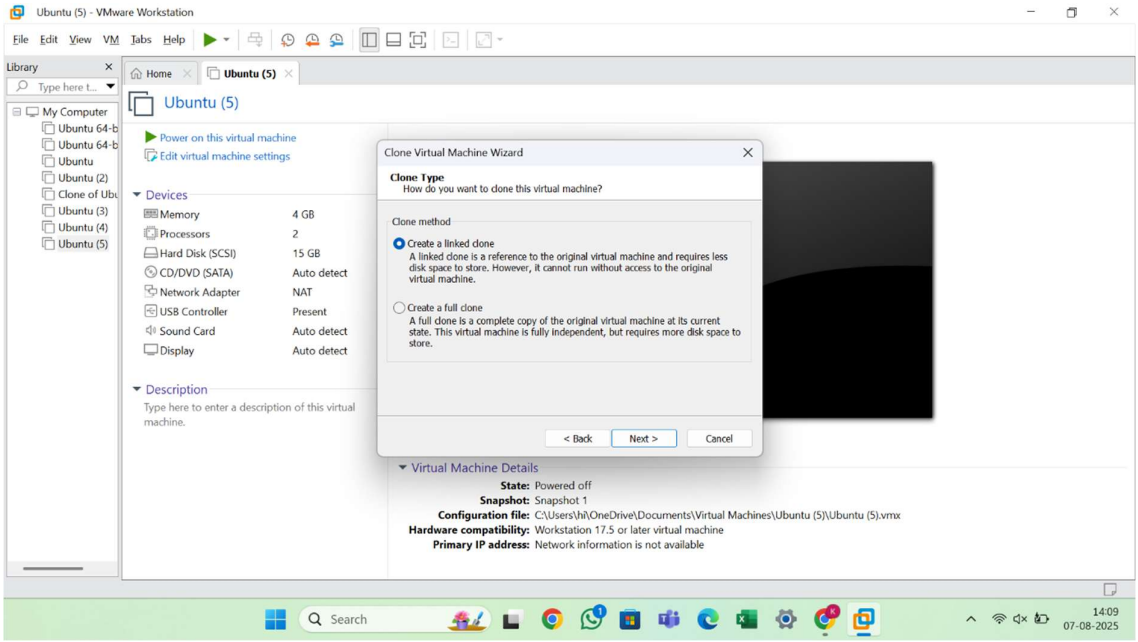
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Power on this virtual machine
Edit virtual machine settings
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Memory 4 GB
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USB Controller Present
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Display Auto detect
Description
Type here to enter a description of this virtual machine.
Clone Virtual Machine Wizard
Clone Type
How do you want to clone this virtual machine?
Clone method
Create a linked clone
A linked clone is a reference to the original virtual machine and requires less disk space to store. However, it cannot run without access to the original virtual machine.
Create a full clone
A full clone is a complete copy of the original virtual machine at its current state. This virtual machine is fully independent, but requires more disk space to store.
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Snapshot: Snapshot 1
Configuration file: C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu (5)\Ubuntu (5).vmx
Hardware compatibility: Workstation 17.5 or later virtual machine
Primary IP address: Network information is not available
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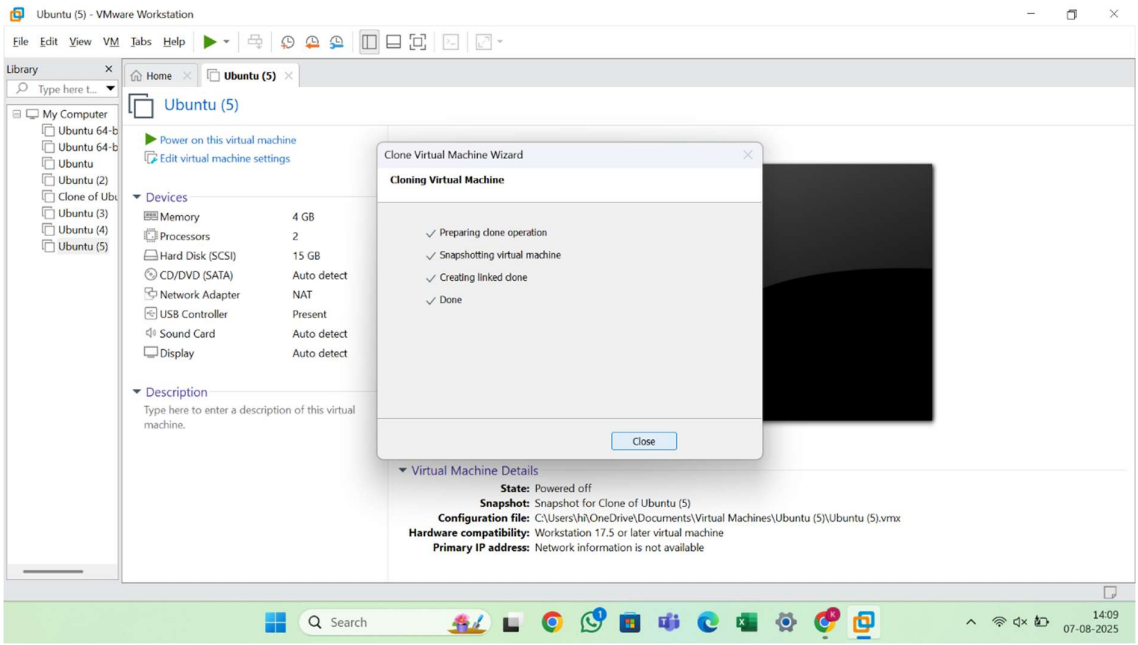
07-08-2025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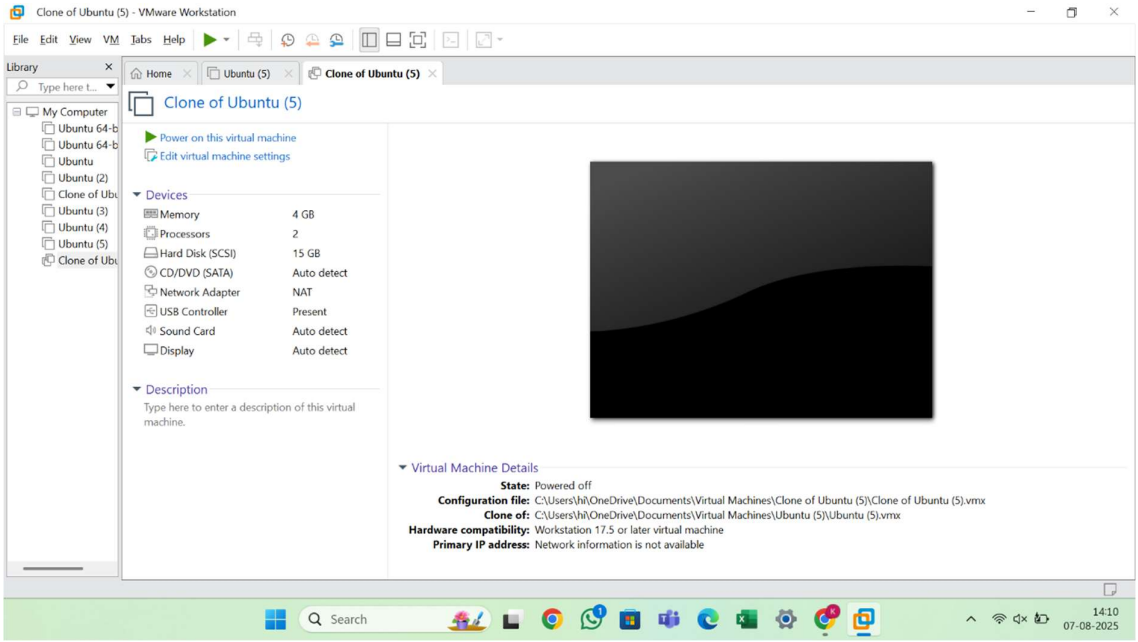
Ubuntu
Ubuntu (2)
Clone of Ubu
Ubuntu (3)
Ubuntu (4)
Ubuntu (5)
Home
Ubuntu (5)
Ubuntu (5)
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 2
Hard Disk (SCSI) 15 GB
CD/DVD (SATA) Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Display Auto detect
Description
Type here to enter a description of this virtual machine.
Clone Virtual Machine Wizard
Cloning Virtual Machine
Preparing clone operation
Snapshotting virtual machine
Creating linked clone
Done
Close
Virtual Machine Details
State: Powered off
Snapshot: Snapshot for Clone of Ubuntu (5)
Configuration file: C:\Users\hi\OneDrive\Documents\Virtual Machines\Ubuntu (5)\Ubuntu (5).vmx
Hardware compatibility: Workstation 17.5 or later virtual machine
Primary IP address: Network information is not available
Search
14:09
07-08-2025



Result

The virtual machine snapshot was successfully created. The system was reverted to the snapshot state without data loss. Additionally, a cloned VM was created and verified to run correctly from the selected snapshot state.