

LAB EXPERIMENTS

CSA1517

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

**P.SAHITH SAI
(192425029)**

EXP NO 15: CREATE A SNAPSHOT OF A VIRTUAL MACHINE (VM) USING VMWARE WORKSTATION ON AND VERIFY ITS FUNCTIONALITY BY REVERTING TO THE SNAPSHOT OR CREATING AND RUNNING A CLONED VM.

Aim: To create a snapshot of a virtual machine (VM) using VMware Workstation on 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.

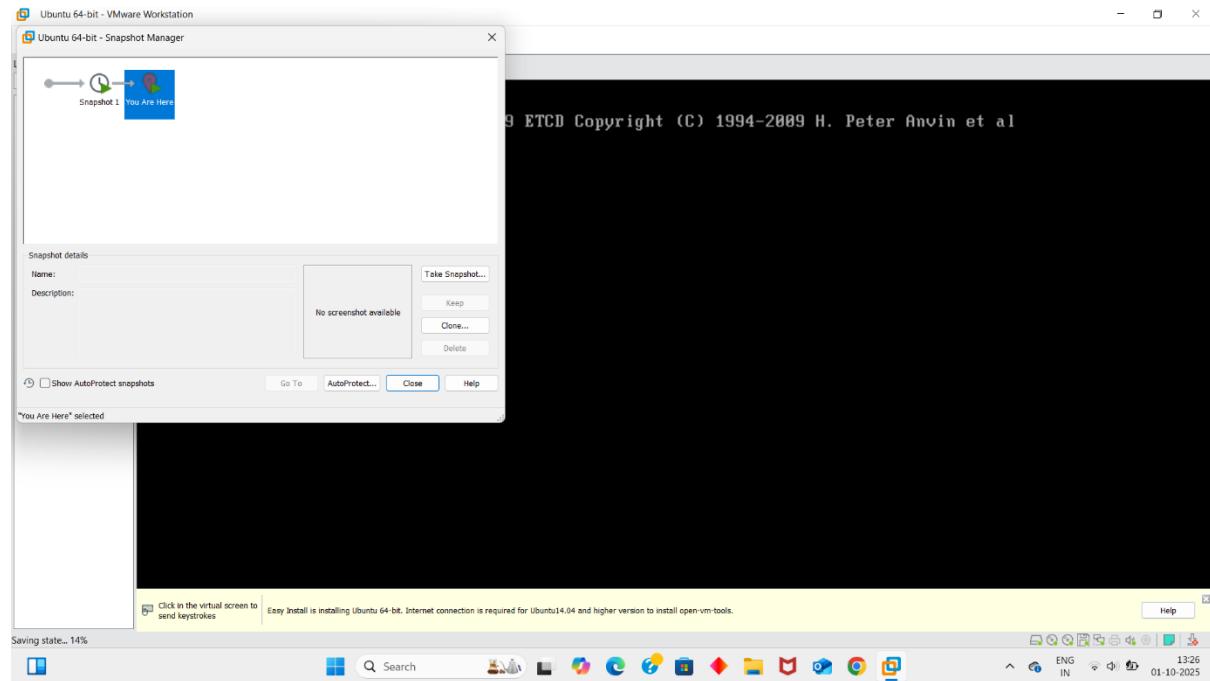
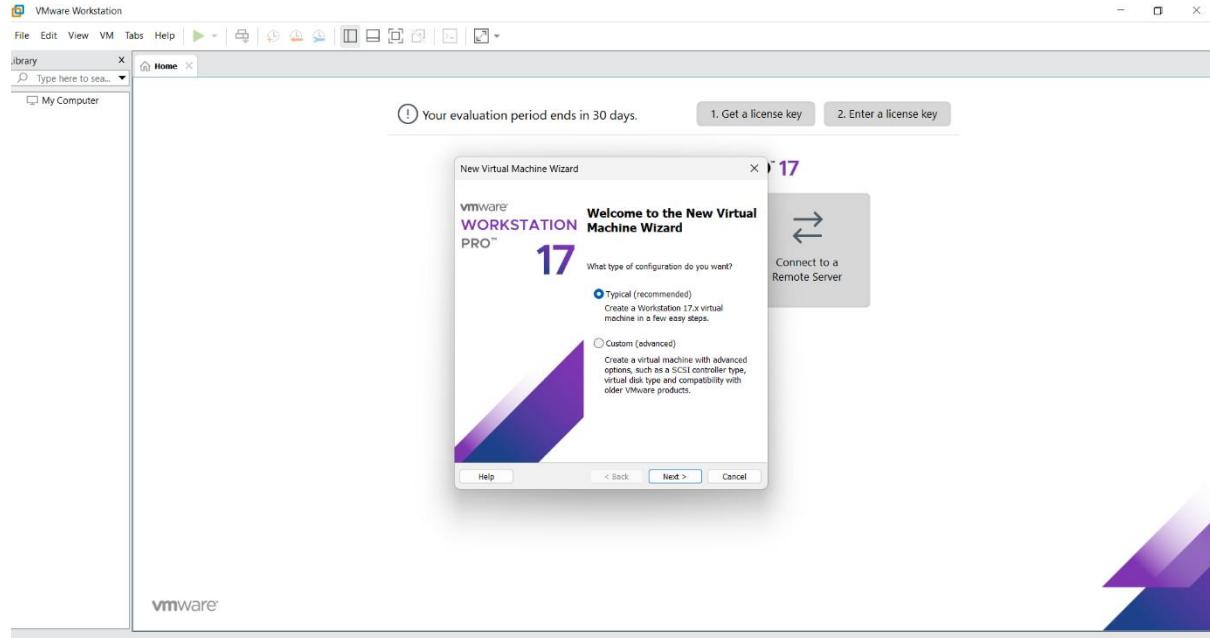
Step 6: Clone the VM (Optional Alternative)

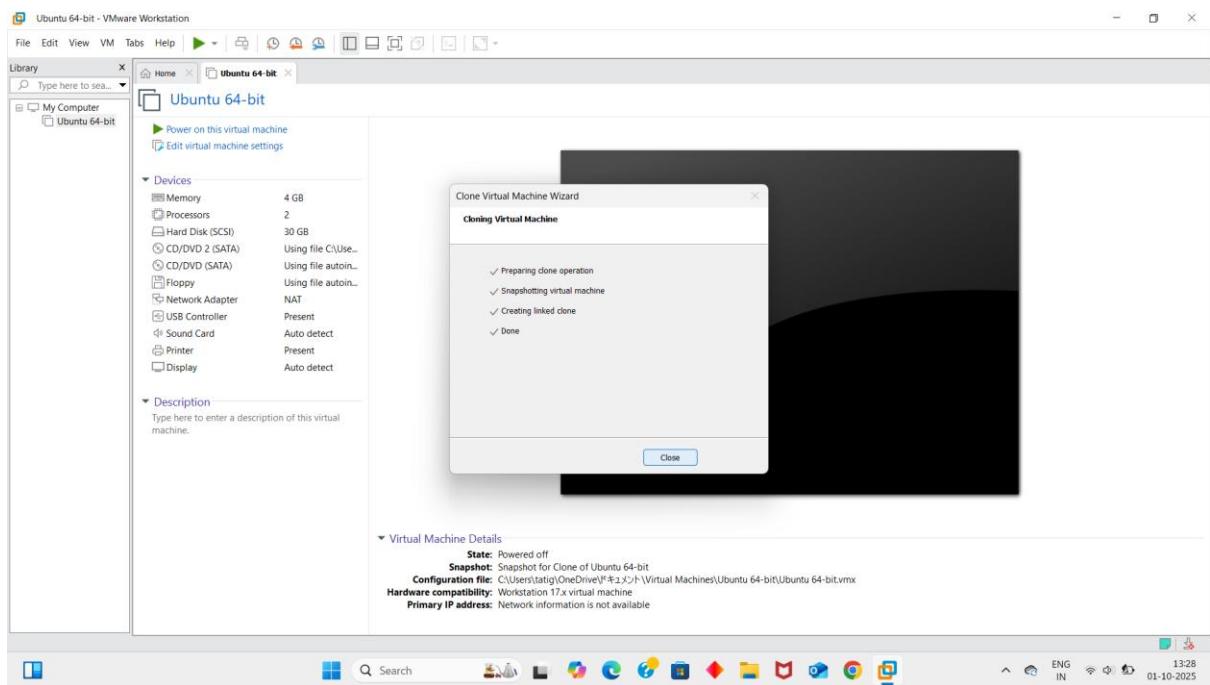
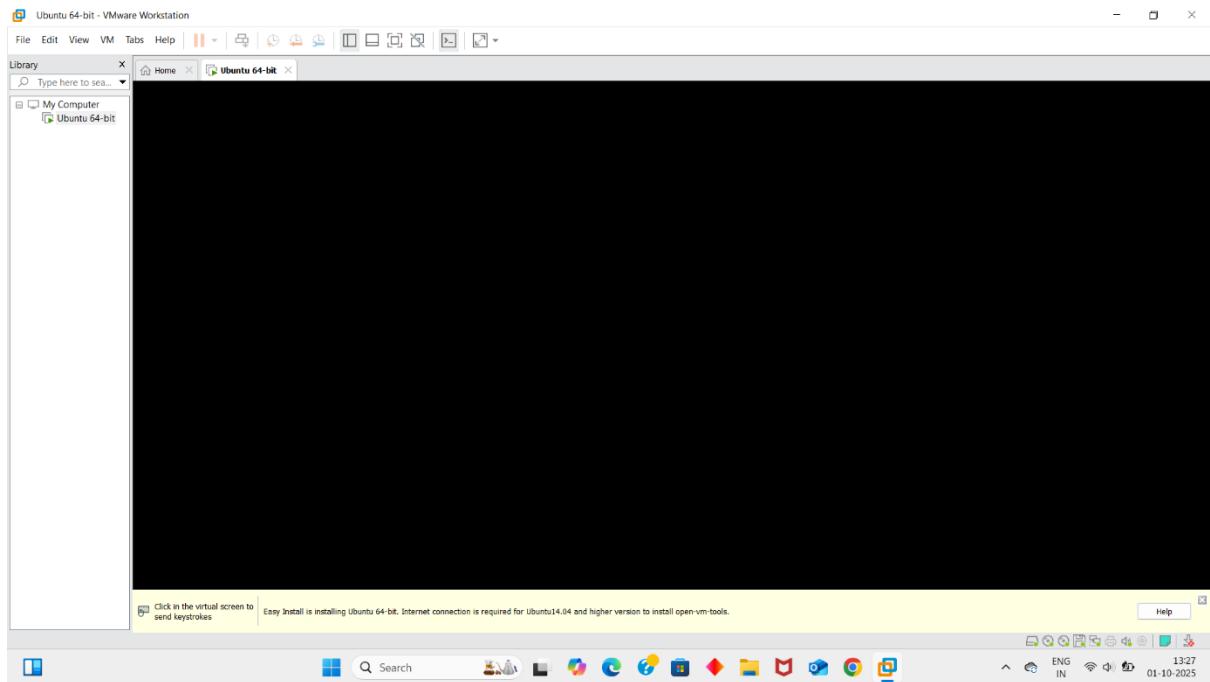
1. Shut down the VM again.
2. Go to VM → Manage → Clone.
3. Choose:
 - o Clone from Snapshot (to use saved snapshot)
 - o Create a Full Clone (for independent use)
4. Name and save the clone in your desired location.

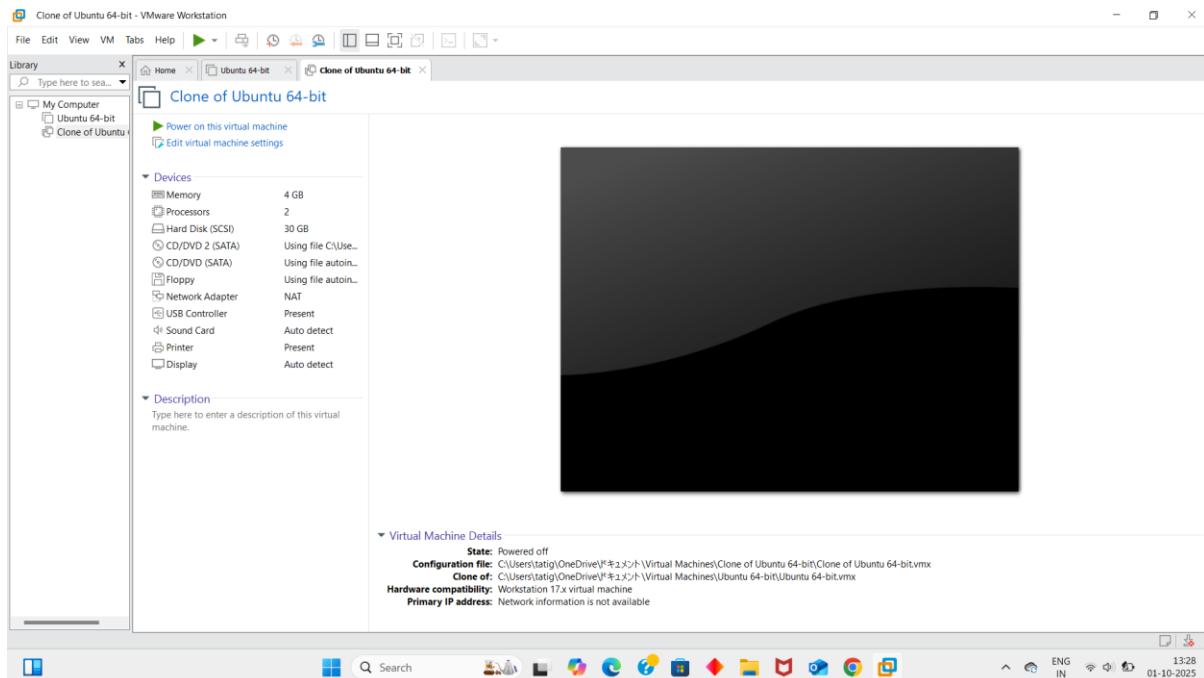
Step 7: Run the Cloned VM

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

IMPLEMENTATION:







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.