

# **LAB EXPERIMENTS**

**CSA1517**

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

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## **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 Worksta on**

1. Open VMware Workstation on your system.
2. Select the virtual machine you wish to manage from the le 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 so ware 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.

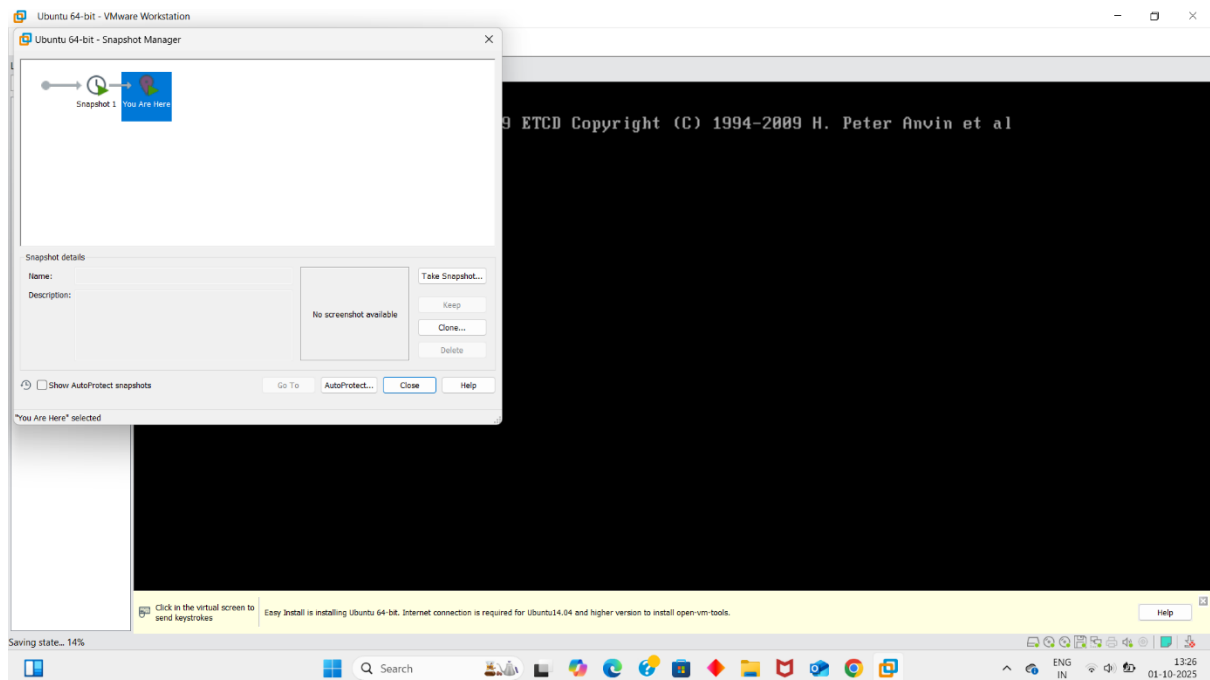
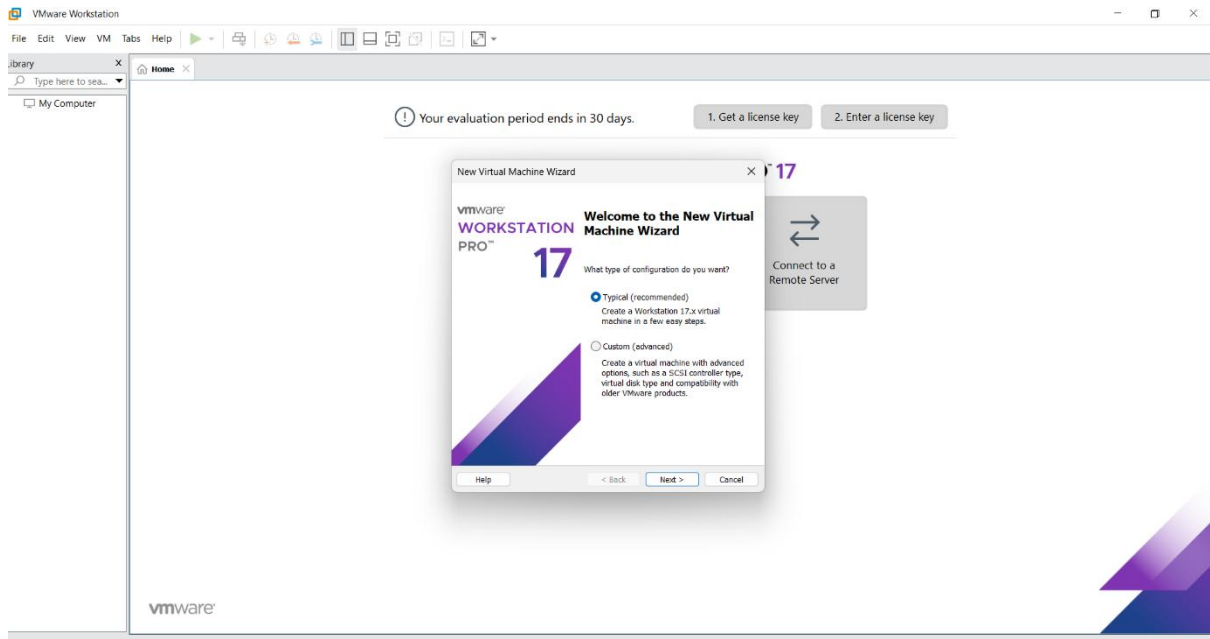
#### **Step 6: Clone the VM (Optional Alternative)**

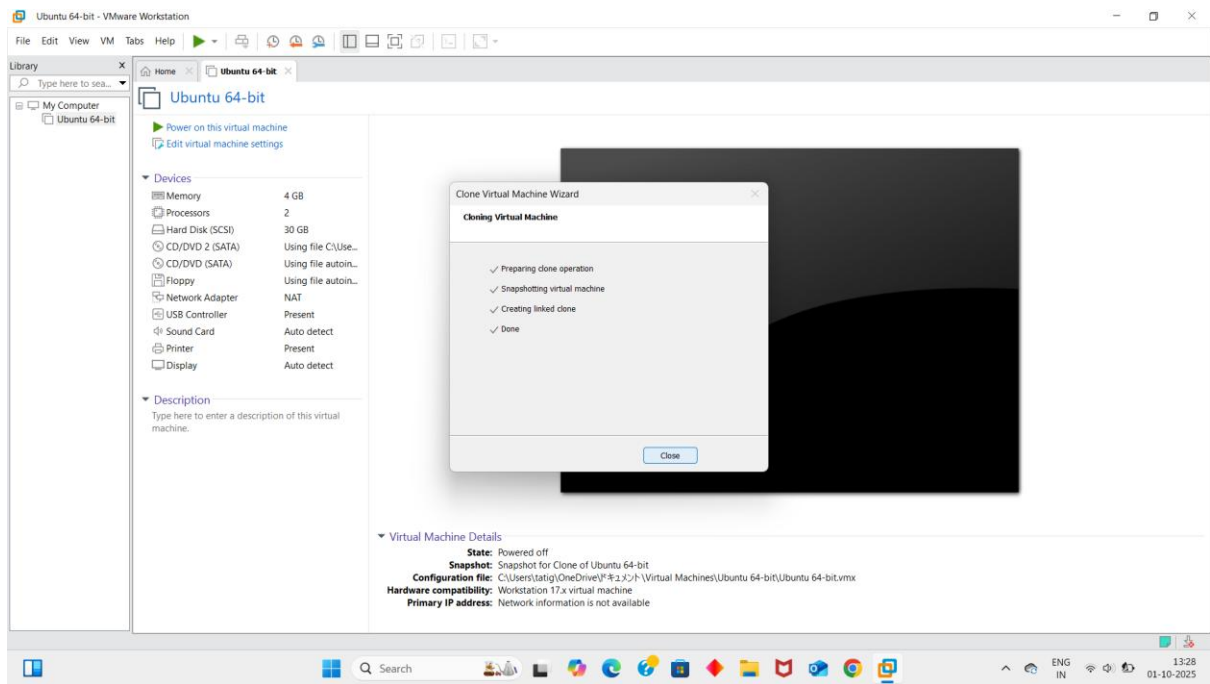
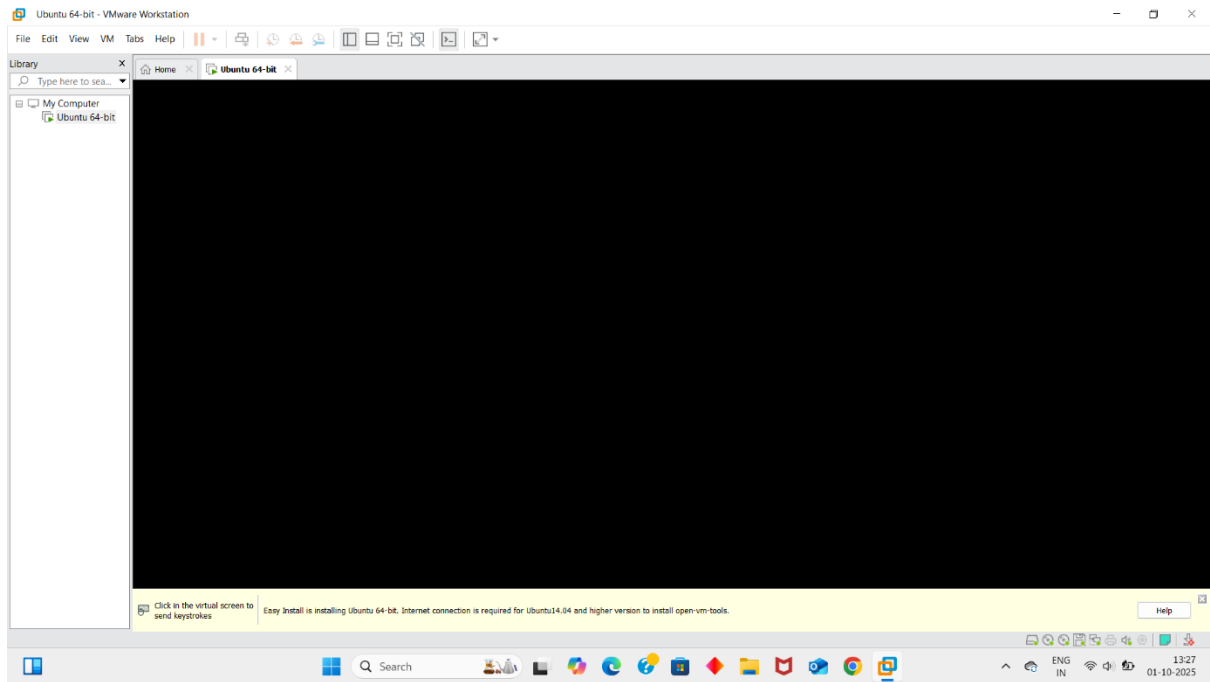
1. Shut down the VM again.
2. Go to VM → Manage → Clone.
3. Choose:
  - o Clone from Snapshot (to use saved snapshot)
  - o Create a Full Clone (for independent use)
4. Name and save the clone in your desired location.

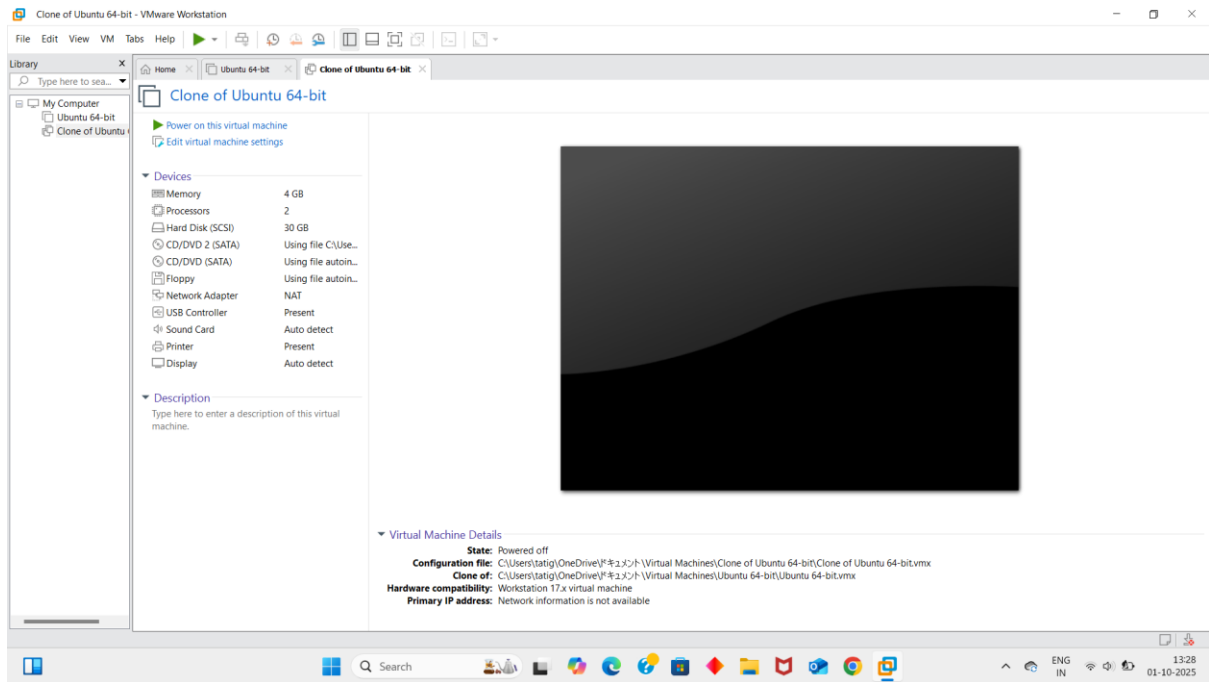
#### **Step 7: Run the Cloned VM**

- 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.