

EXPERIMENT-10

AIM:

To clone an existing Virtual Machine using Oracle VirtualBox and test the cloned VM by booting and verifying its functionality, as well as validating the capability to revert to or run the previous version.

Procedure

A. Cloning the Virtual Machine

1. **Open VirtualBox** on the host system.
2. Select the existing Virtual Machine to be cloned from the VirtualBox Manager.
3. Click on the **Machine** → **Clone** option or right-click the VM and select **Clone**.
4. Enter the name for the cloned VM (e.g., MyVM_Clone).
5. Choose the **Clone Type**:
 - **Full Clone** (creates a full, independent copy).
 - **Linked Clone** (depends on the original VM's disk, smaller in size).
6. Select **MAC Address Policy** → typically, choose **Generate new MAC addresses**.
7. Click **Next** → **Finish** to start cloning.
8. Wait until the cloning process is complete.

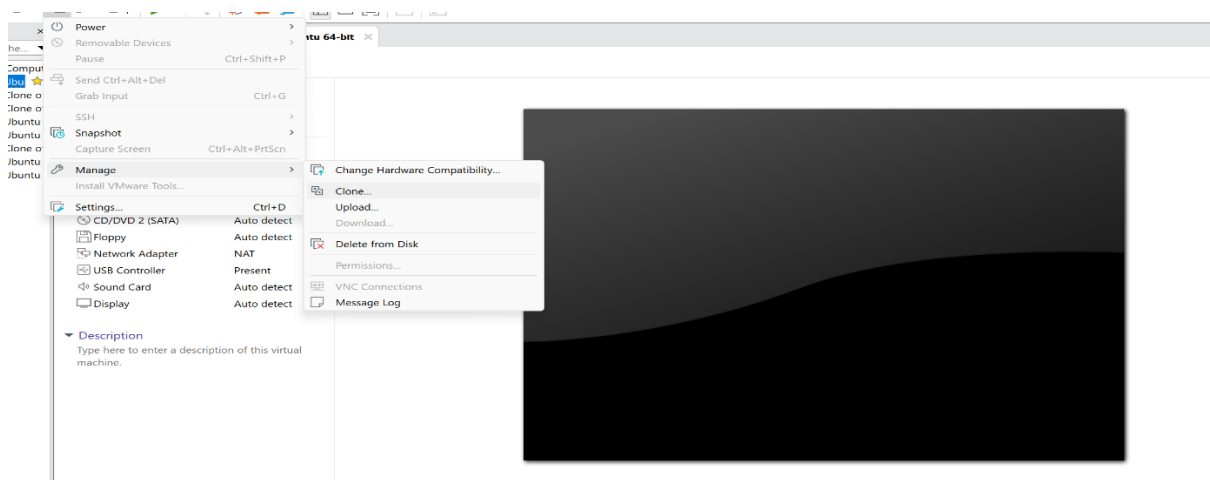
B. Testing the Cloned VM

1. From the VirtualBox Manager, select the newly cloned VM.
2. Click **Start** to boot up the cloned VM.
3. Verify that the cloned VM boots successfully without errors.
4. Check operating system functionality (e.g., log in, run sample applications).

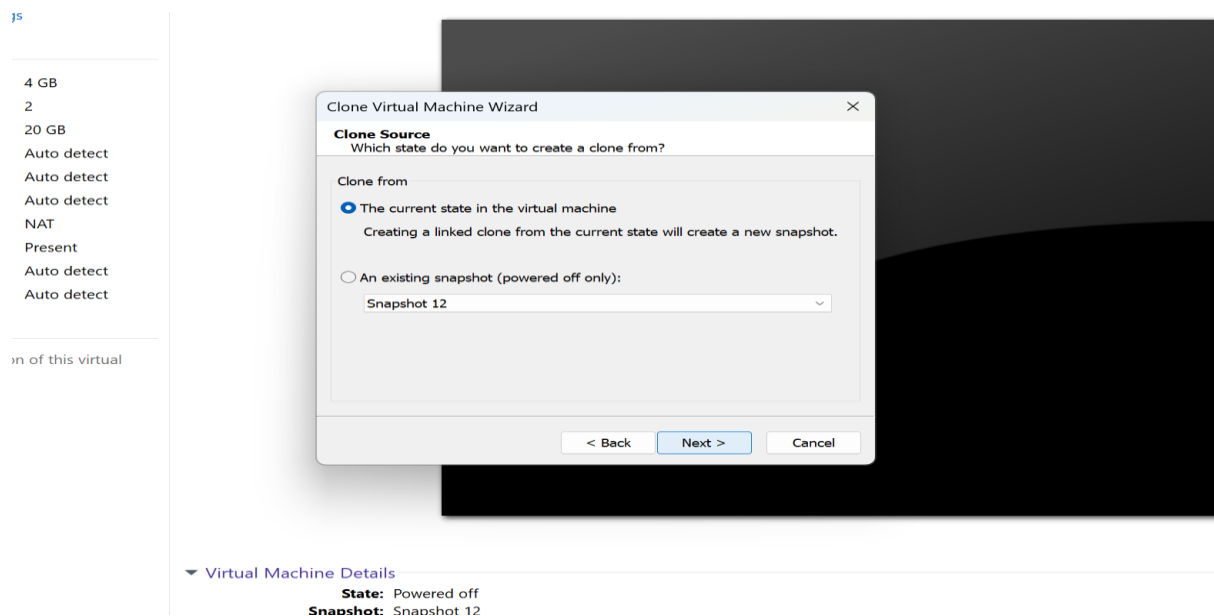
C. Loading Previous Version (Original VM)

1. Select the **original VM** from the VirtualBox Manager.
2. Click **Start** to boot the original VM.
3. Ensure that both versions (original and clone) run independently without conflict.

STEP 1:



STEP 2:



STEP 3:

detect
detect
detect

nt
detect
detect

s virtual

Clone Virtual Machine Wizard

Name of the New Virtual Machine

What name would you like to use for this virtual machine?

Virtual machine name

Clone of Ubuntu 64-bit (5)

Location

C:\Users\Siva Polam\OneDrive\Documents\Virtual Machines\C

Browse...

< Back

Finish

Cancel

Virtual Machine Details

State: Powered off

STEP 4:

ect
ect
ect

ect
ect

rtual

Clone Virtual Machine Wizard

Cloning Virtual Machine

✓ Preparing clone operation

✓ Snapshotting virtual machine

✓ Creating linked clone

✓ Done

Close

STEP 5:


▶ Power on this virtual machine
✎ Edit virtual machine settings

▼ Devices

Memory	4 GB
Processors	2
Hard Disk (SCSI)	20 GB
CD/DVD (SATA)	Auto detect
CD/DVD 2 (SATA)	Auto detect
Floppy	Auto detect
Network Adapter	NAT
USB Controller	Pre-ent
Sound Card	NAT Auto detect
Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.



▼ Virtual Machine Details

State: Powered off

Configuration file: C:\Users\Siva Polam\OneDrive\Documents\Virtual Machines\Clone of Ubuntu 64-bit (5)\Clone of Ubuntu 64-bit (5).vmx

Clone of: C:\Users\Siva Polam\OneDrive\Documents\Virtual Machines\Ubuntu 64-bit\Ubuntu 64-bit.vmx

Hardware compatibility: Workstation 17.5 or later virtual machine

Primary IP address: Network information is not available

RESULT:

- Successfully cloned a Virtual Machine using Oracle VirtualBox.
- Verified functionality of both the cloned and original VMs.
- Demonstrated that the cloned VM can be used as a backup or alternate configuration while preserving the original system state.