

9. Create a Snapshot of a VM and Test it by loading the Previous Version/Cloned VM using virtual box.

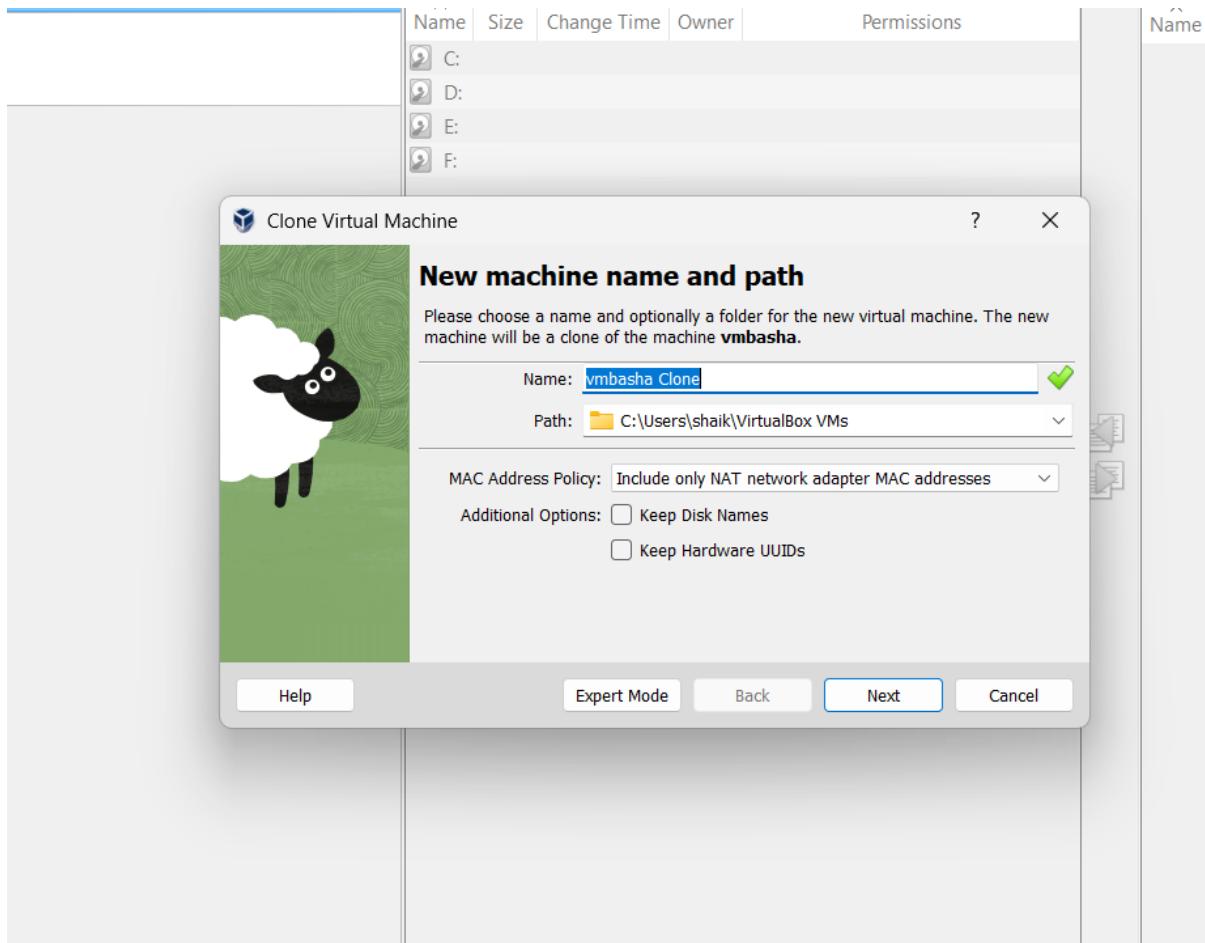
Aim

To create a snapshot of a Virtual Machine (VM) in Oracle VirtualBox and test it by restoring/loading the previous version or cloned VM, in order to understand VM state preservation and recovery.

Procedure

A. Creating a Snapshot of a Virtual Machine

1. Open Oracle VirtualBox.
2. Select the virtual machine you want to work with from the left panel.
3. Ensure the VM is either:
 - Powered off, or
 - Running (snapshots can also be taken while running).
4. Click on the \equiv (three lines) / Machine Tools \rightarrow select Snapshots, OR right-click the VM \rightarrow click Snapshots.
5. Click Take Snapshot.
6. Enter:
 - Snapshot Name (e.g., *Initial State*)
 - Description (optional)
7. Click OK.
8. The snapshot is now saved and listed in the snapshot tree.



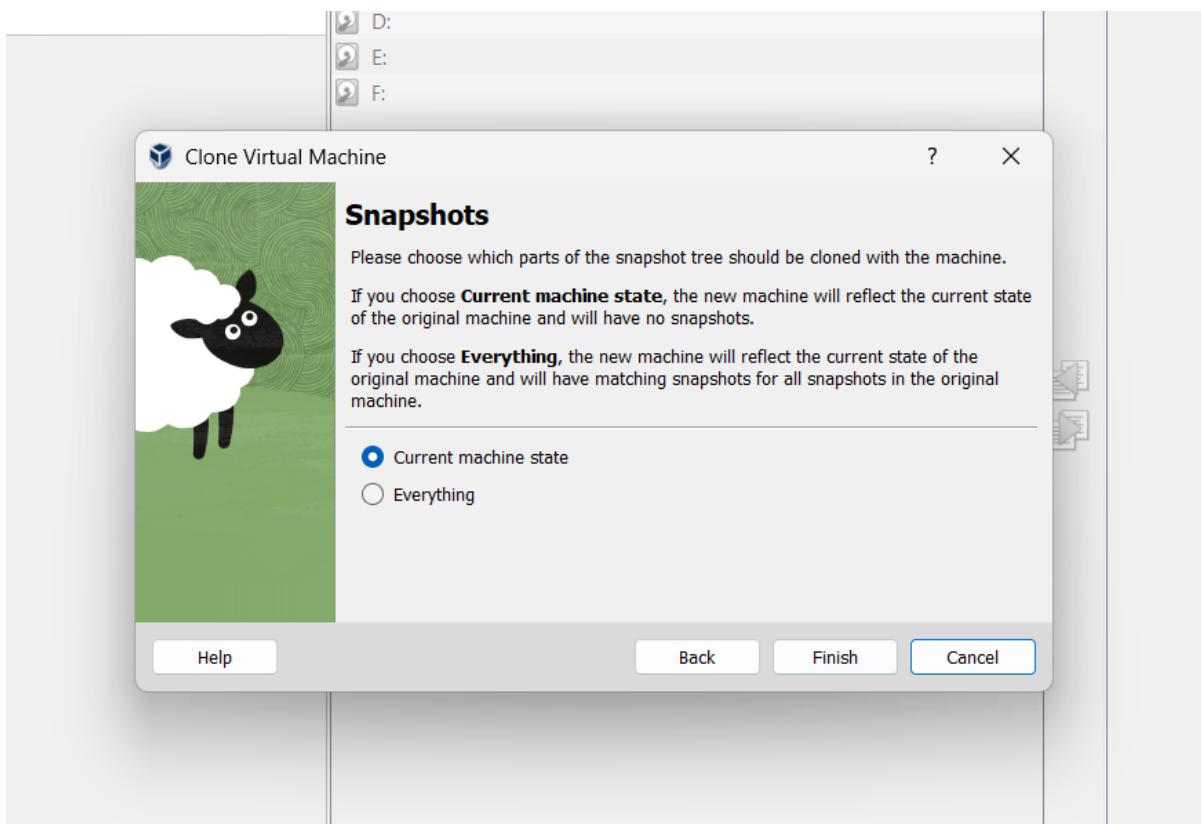
B. Modifying the VM (for Testing Purpose)

1. Start the VM.
2. Make some changes, such as:
 - Install new software
 - Change system settings
 - Create or delete files
3. Shut down or keep the VM running after changes.

C. Restoring / Loading the Previous Version (Snapshot)

1. Open VirtualBox Manager.

2. Select the VM → click Snapshots.
3. Choose the previously created snapshot (e.g., *Initial State*).
4. Click Restore.
5. If prompted, select:
 - Restore Snapshot (and optionally create a snapshot of current state).
6. Start the VM.
7. Verify that:
 - The VM has reverted to the earlier state
 - Changes made after the snapshot are no longer present



D. Testing by Cloning the VM (Optional Method)

1. Right-click the VM → select Clone.
2. Enter a new VM name.
3. Choose:

- Linked Clone (uses snapshot, faster)
 - Full Clone (independent copy)
4. Select Current Machine State or Specific Snapshot.
 5. Click Finish.
 6. Start the cloned VM and verify it works independently.

Result

A snapshot of the virtual machine was successfully created and tested by restoring the previous version and/or loading a cloned VM using Oracle VirtualBox.

Output:

