

Backup and Restore OpenSUSE Virtual Machine (opensuse.example.com) using VirtualBox Snapshots

Objective:

This task involves creating a backup of your OpenSUSE virtual machine (opensuse.example.com) using VirtualBox snapshots and verifying its functionality by restoring the VM from the snapshot. This will ensure you have a recovery point in case of system issues or data loss.

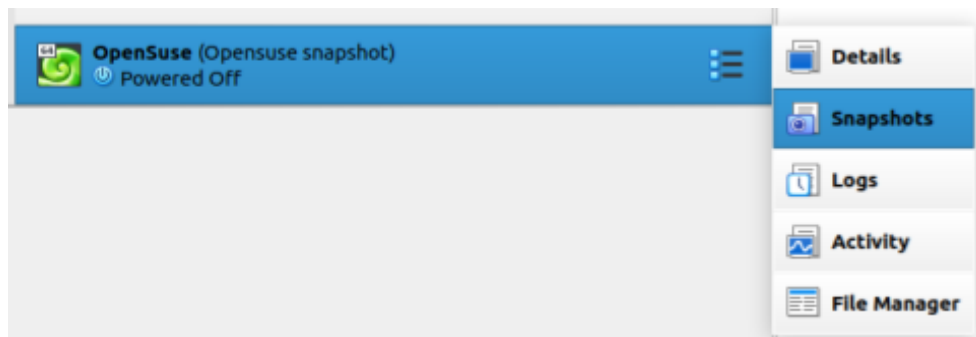
Scenario:

You manage a virtualized environment that includes an OpenSUSE virtual machine (opensuse.example.com). It's crucial to implement a backup strategy to safeguard your system and data. VirtualBox snapshots provide a convenient way to capture the state of a VM at a specific point in time.

Solution :-

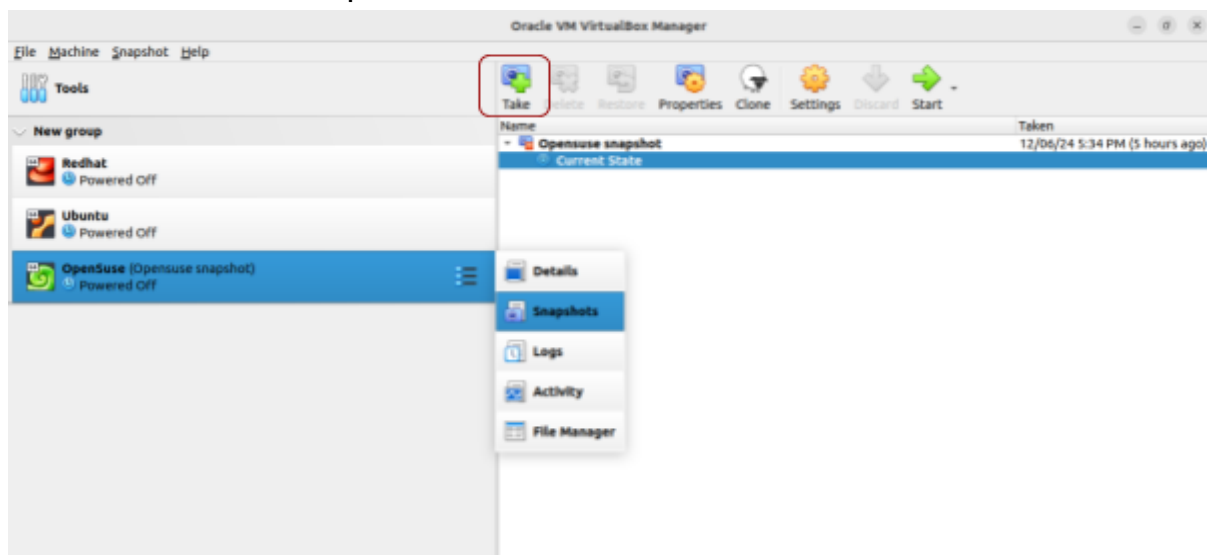
Step 1: Open Oracle VirtualBox and Select Snapshots of OpenSuse.

- Select Opensuse Vm and Click on menu option.
- Click on Snapshots.



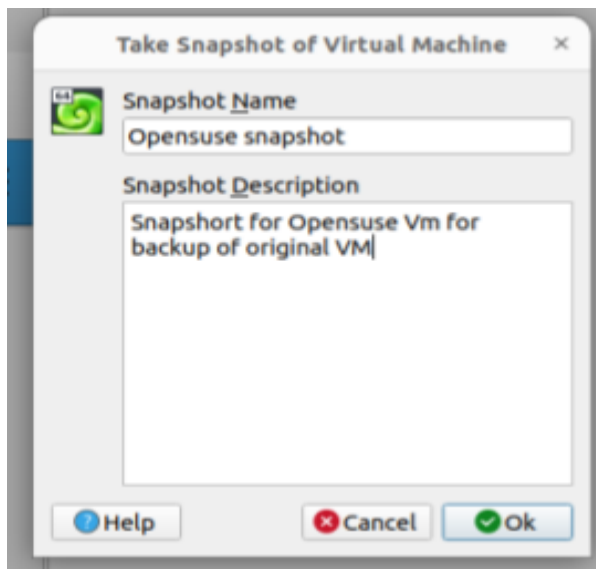
Step 2: Select Take Option.

- Click on Take Option.



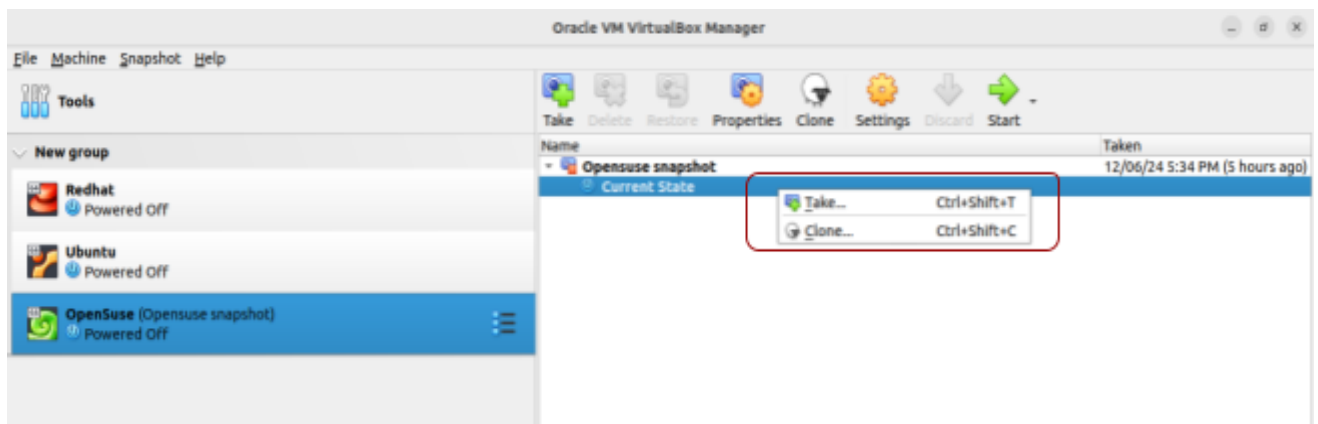
Step 3: Snapshot Name.

- Give Name and Description to Snapshot.
- Click **Ok**.



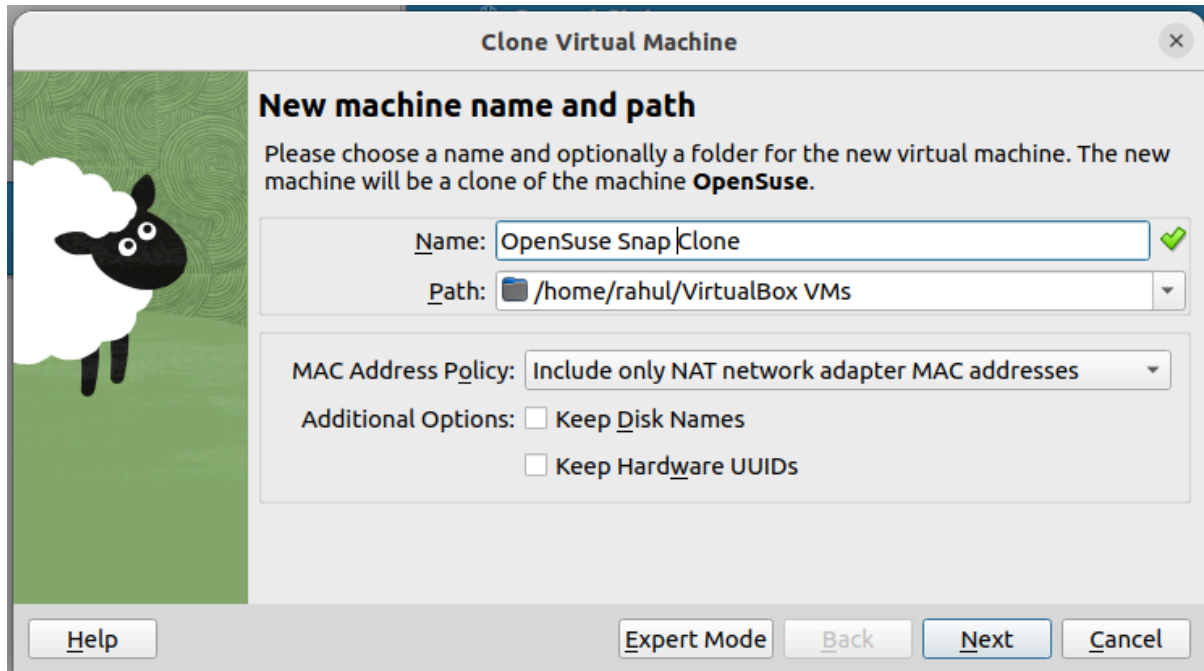
Step 4: Clone the Snapshot.

- Right click on Opensuse snapshot.
- Select **Clone**.



Step 5: Clone Virtual Machine

- Name the Clone VM and Select the location.
- Click **Next**.



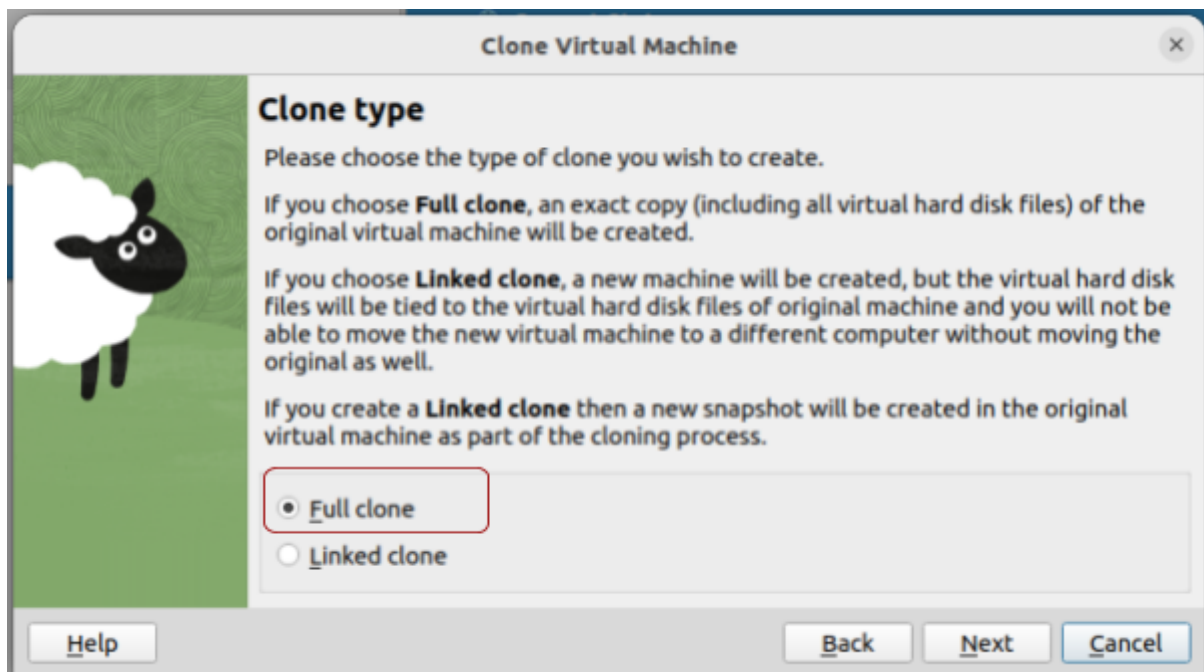
The screenshot shows the 'Clone Virtual Machine' dialog box with the title bar 'Clone Virtual Machine'. On the left is a decorative image of a sheep. The main area is titled 'New machine name and path' and contains the following fields and options:

- Name:** A text input field containing 'OpenSuse Snap|Clone' with a green checkmark icon to its right.
- Path:** A dropdown menu showing '/home/rahul/VirtualBox VMs'.
- MAC Address Policy:** A dropdown menu set to 'Include only NAT network adapter MAC addresses'.
- Additional Options:** Two checkboxes: 'Keep Disk Names' (unchecked) and 'Keep Hardware UUIDs' (unchecked).

At the bottom, there are four buttons: 'Help', 'Expert Mode', 'Back', and 'Next' (highlighted in blue), followed by 'Cancel'.

Step 6: Clone type

- Select **Full clone**.
- Click **Next**.



The screenshot shows the 'Clone Virtual Machine' dialog box with the title bar 'Clone Virtual Machine'. On the left is a decorative image of a sheep. The main area is titled 'Clone type' and contains the following text and options:

Please choose the type of clone you wish to create.

If you choose **Full clone**, an exact copy (including all virtual hard disk files) of the original virtual machine will be created.

If you choose **Linked clone**, a new machine will be created, but the virtual hard disk files will be tied to the virtual hard disk files of original machine and you will not be able to move the new virtual machine to a different computer without moving the original as well.

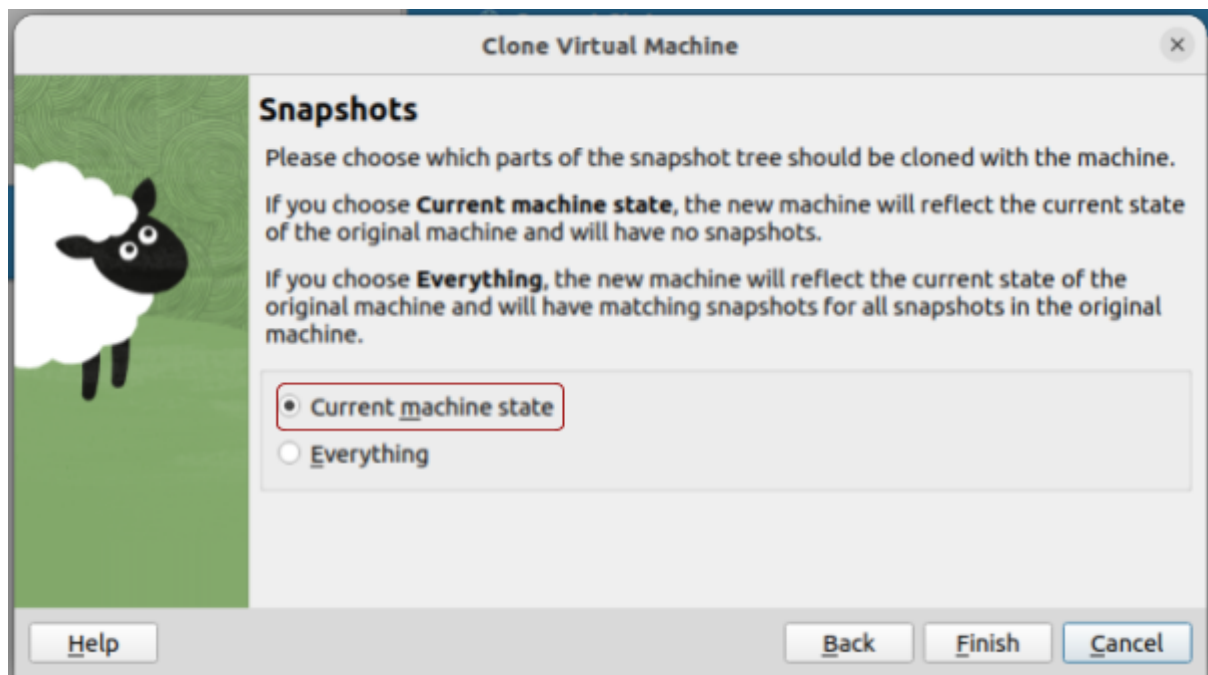
If you create a **Linked clone** then a new snapshot will be created in the original virtual machine as part of the cloning process.

At the bottom, there are two radio buttons: 'Full clone' (selected and highlighted with a red box) and 'Linked clone'.

At the bottom of the dialog, there are four buttons: 'Help', 'Back', 'Next' (highlighted in blue), and 'Cancel'.

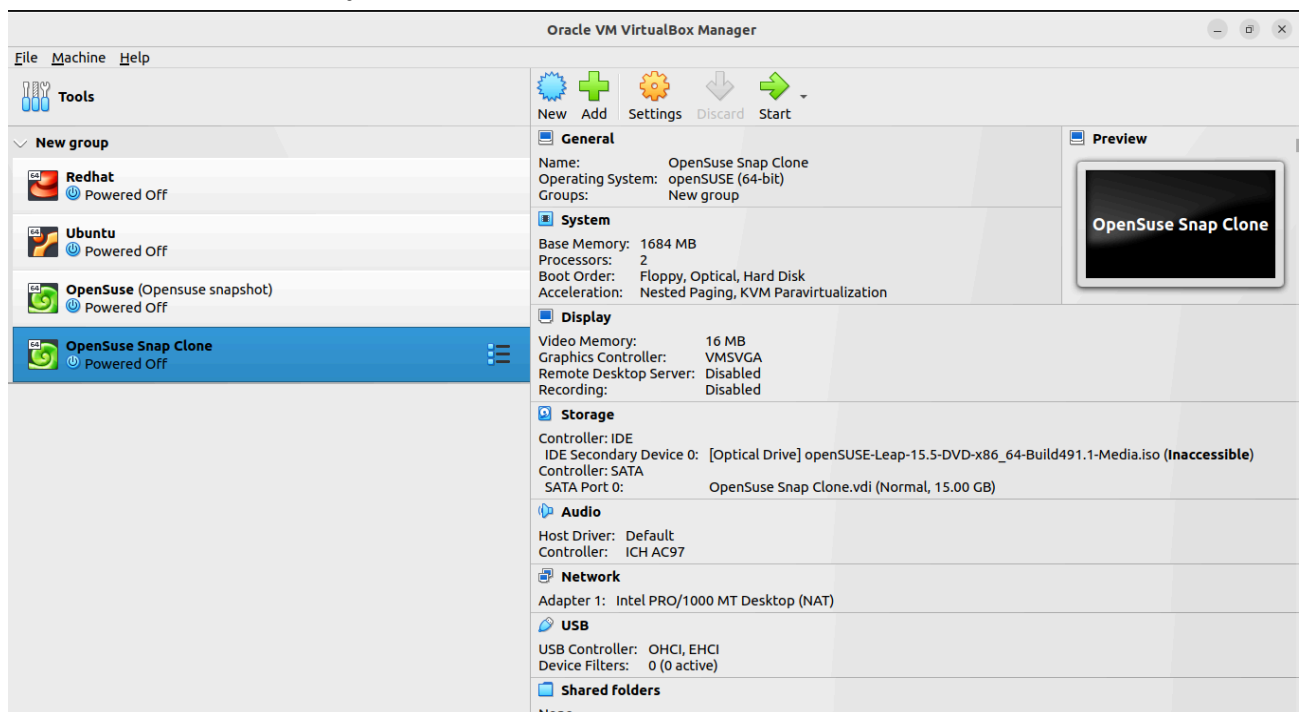
Step 7: Snapshots

- Select **Current machine state**.
- Click **Finish**.



Step 8: Snapshot VM

- Your VM is ready.



Congratulation your snapshot vm is ready!...

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