

Practical Exercise 6-1: Managing Ownership

This Practical Exercise will have students modifying file and directory ownership from the shell prompt using the `chmod` utility.

Open VirtualBox and start the openSUSE VM. Run snapshot 11-1 for the correctly configured environment. To run snapshot 11-1:

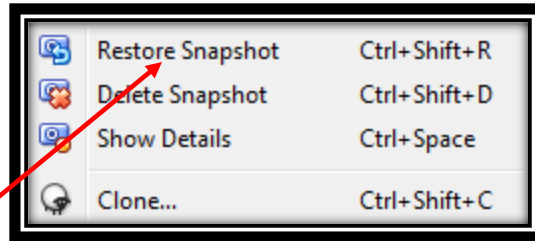
1. Open the Oracle VM VirtualBox manager by double clicking this icon on your desktop:



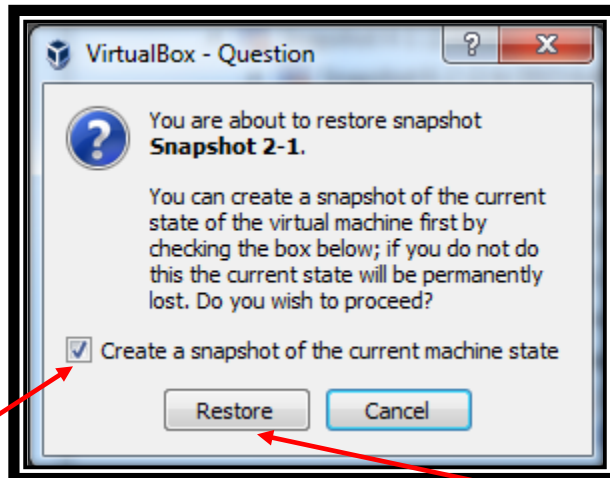
2. Click "Snapshots" in the top right of the Oracle VM Virtualbox Manager.



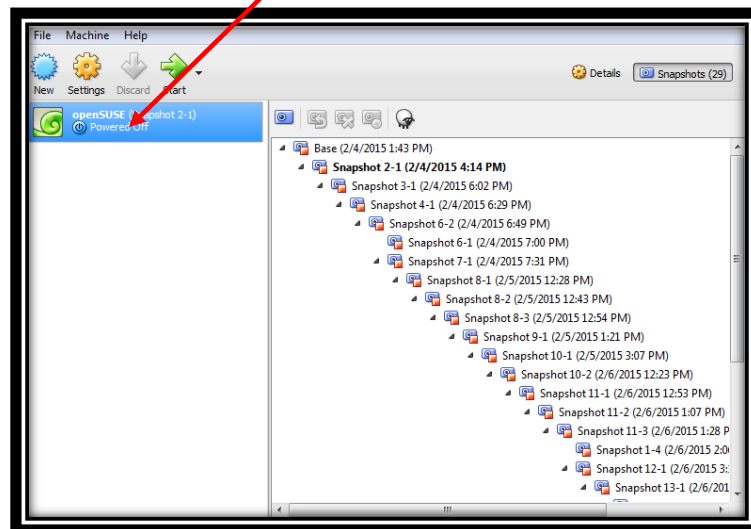
3. In the right side box populated with snapshots scroll up and find the one titled "Snapshot 11-1" and right click on it. The following box should appear:



4. Select "Restore Snapshot" and the following pop-up should appear:



5. Uncheck the "Create a Snapshot of the current machine state" box and then click the "Restore" button.
6. You should now see in the left box the openSUSE (Snapshot 2-1) with a status of "Powered Off." Power it on by double clicking it.



7. A separate window should open and you should see the openSUSE Linux OS booting.
8. Press **CTRL+ALT+F1** to move to the command line shell.
9. At your login prompt, authenticate to the system as the user: **root** and password: **student**.
10. Verify that your student user account is a member of the research group by doing the following:
 - a. At the shell prompt, enter **cat /etc/group**.
 - b. Verify that your student user is a member of the research group.
 - c. If your student user is not a member of the research group, add it using the **groupmod** command.
11. Change to the **/** directory by entering **cd /** at the shell prompt.
12. Create a new directory named **RandD** by entering **mkdir RandD** at the shell prompt.
13. At the shell prompt, enter **ls -l**. Notice that the root user account and the root group are the owners of the new directory.
14. Change ownership of the directory to your student user account and the research group by entering **chown student.research RandD** at the shell prompt.
15. Enter **ls -l** again at the shell prompt. Verify that ownership of the **RandD** directory has changed to your student user account and the research group.

--End of Practical Exercise--