

## Practical exercise 4-4: Using grep

This Practical Exercise will take students through the use of grep search and display specific log entries from the system log.

Open VirtualBox and start the openSUSE VM. Run snapshot 4-1 for the correctly configured environment. To run snapshot 4-1:

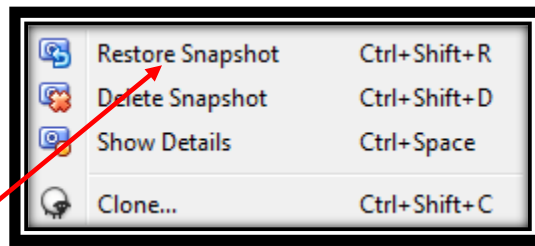
1. Open the Oracle VM VirtualBox manager by double clicking this icon on your desktop:



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



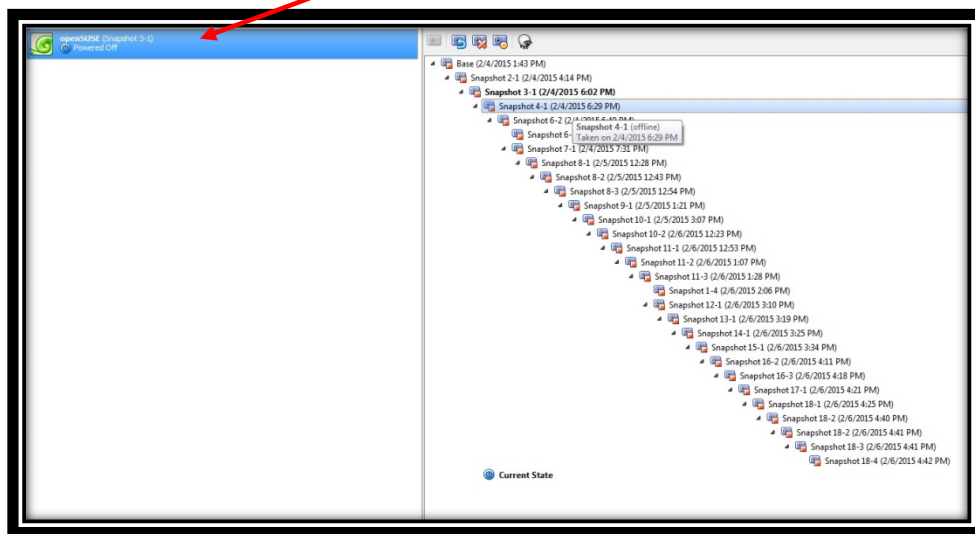
3. In the right side box populated with snapshots scroll up and find the one titled "Snapshot 3-1" and right click on it. The following box should appear:



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. If the pop up box does not have the check box, just click "Restore."
6. You should now see in the left box the openSUSE (Snapshot 4-1) 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. Log in as the user student with the password: **student**; then press CTRL+ALT+F1.
9. At your login prompt, authenticate to the system as the user: **student** and password: **student** again.
10. With your Linux system running and authenticated as the student user, switch to root by entering **su** – followed by a password of **student** at the shell prompt.
11. Locate references to the inittab file in your system log file by entering **grep ifup /var/log/messages**. What can you learn about ifup from the output of grep?
12. Use egrep to find information about the systemd daemon in your system log file by entering **egrep systemd /var/log/messages** at the shell prompt.
13. Use egrep again to find information about all the Ethernet interfaces installed in your system by entering **egrep enp0s[0-3] /var/log/messages** at the shell prompt.
14. Find all lines in your system log file that end with “Enabled” by entering **egrep Enabled\$ /var/log/messages** at the shell prompt.

**--End of Practical Exercise--**