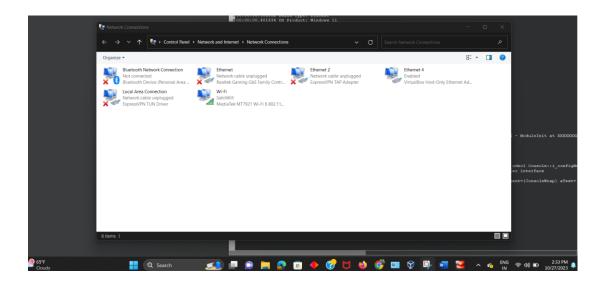
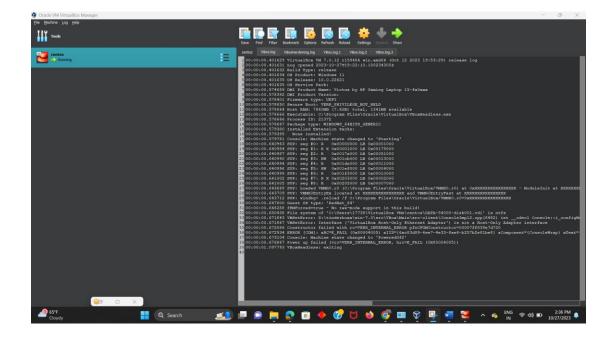
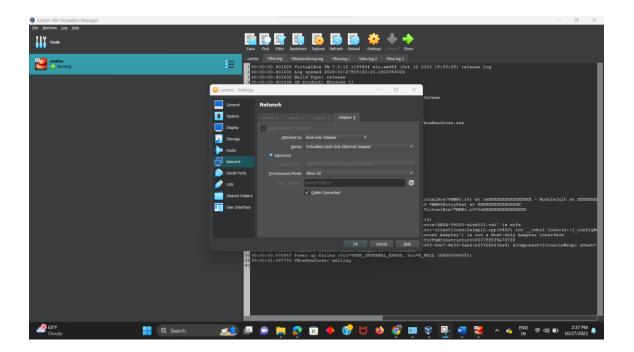
1. Checking Virtual Machine is Connected to Network in Control Panel.



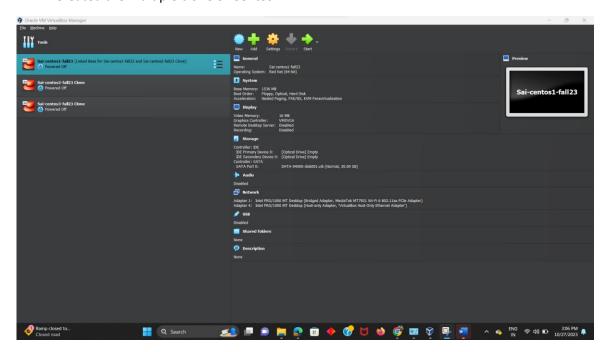
2. After Installing the Virtual Machine Starting the Clone and Running it.



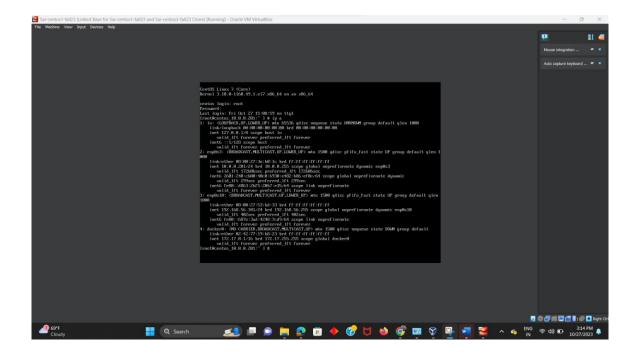
3. Importing Centos 7 into VM and selecting the host only adapter



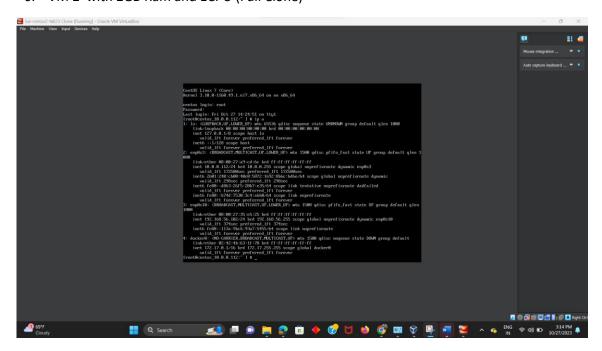
4. Created the multiple clone of Centos7 VM



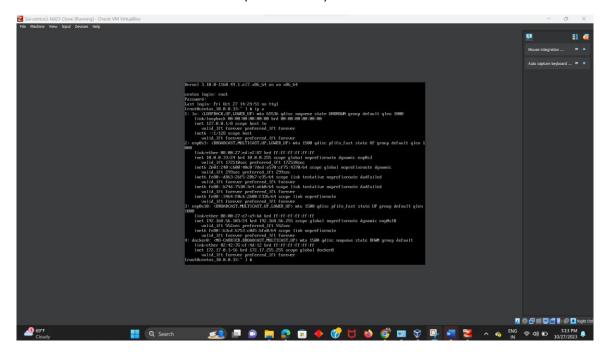
#### 5. VM 1 with 1.5GB Ram and 1CPU



6. VM 2 with 2GB Ram and 1CPU (Full Clone)



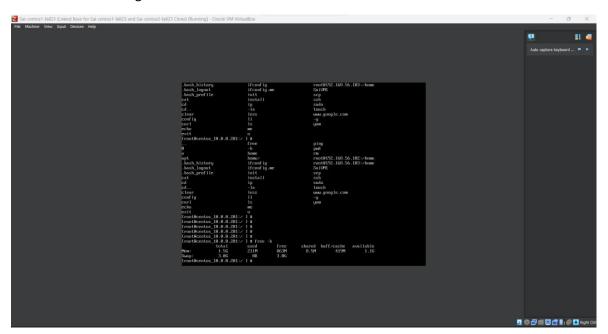
7. VM 3 with 0.5GB Ram and 1CPU (Linked Clone)



8. In VM1 running the command to install curl

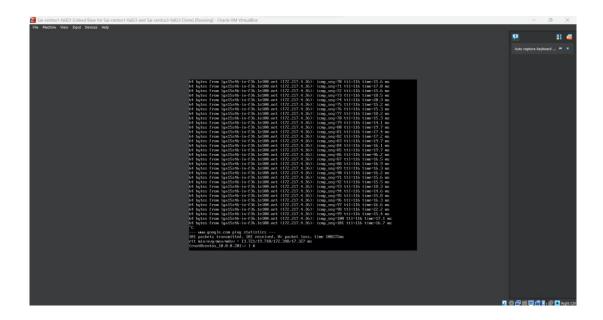


9. On vm1 running the free-h command

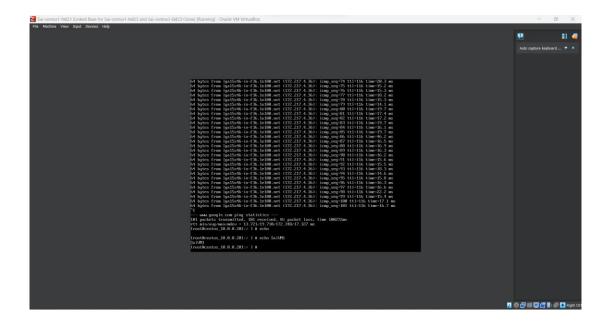


10. On vm1 running the ping command

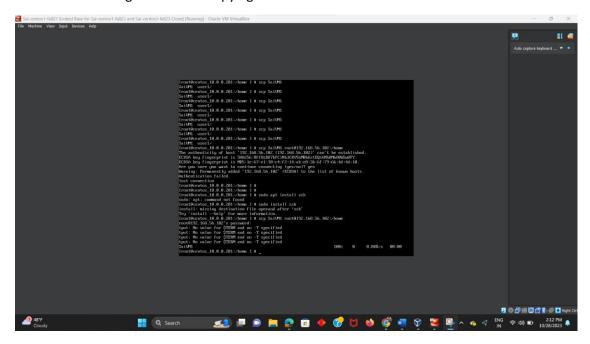
11. Ping command is terminated.



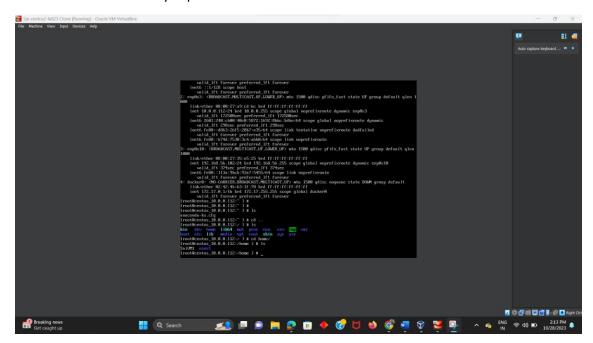
## 12. Echo Command



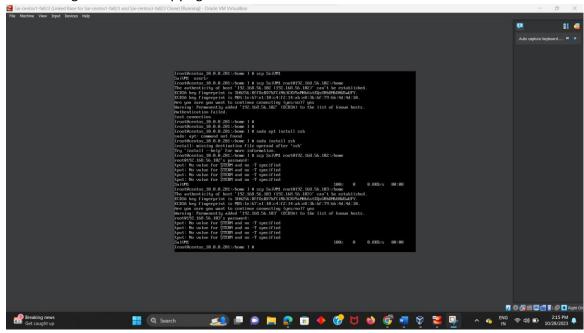
13. File creating in VM1 and copying the file to VM2.



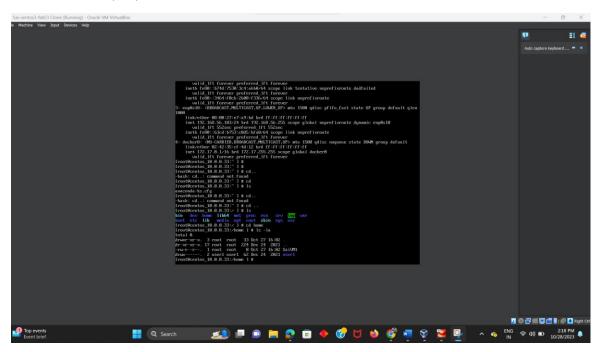
14. File is successfully copied to VM2.



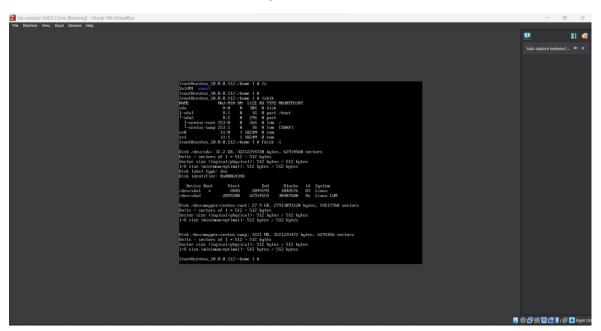
15. File creating in VM1 and copying the file to VM3



16. File is successfully copied to VM3



17. To find No of Disks in VM2 following command as used.



1. Describe in a few sentences the meaning of the 3 options to start a VM in VirtualBox, namely, Normal, Headless and Detachable.

**Normal:** A graphical user interface is shown when a virtual machine (VM) starts in Normal mode. It means that the user will be able to see and interact with the virtual machine's desktop through a window on the host operating system. When a visual interface is required, it is the common way of running a virtual machine (VM) the same as using a physical computer.

**Headless:** A virtual machine that is started in Headless mode does not have a graphical user interface. When working on server or backend operations and without having a graphical user interface, this is helpful. The virtual machine (VM) may still be monitored and used, but only through remote access methods like SSH, RDP, or other command-line applications. When running a virtual machine in the background for server applications, headless mode is frequently used.

# Week 1

Sai Kumar Murarishetti Lewis ID: 30079224

**Detachable:** Users may operate a virtual machine (VM) with a graphical window that separates from the main VirtualBox GUI by using the Detachable mode with the VBoxSDL front-end. Declared in various ways, the graphical user interface of the virtual machine functions separately from the main VirtualBox interface. It can be useful whenever we want to run multiple virtual machines (VMs) in separate detachable windows or separate the VM's GUI from the VirtualBox administration.

2. What is the meaning and purpose of the Export Appliance option in VirtualBox? When would you use this option?

In VirtualBox, users may create a self-contained package of a virtual machine by using the "Export Appliance" alternative, which combines the disk images and settings into a single file.

#### Uses:

Anyone may share a virtual computer with another person. Generate a virtual machine backup. Storing virtual machines for transfer for long-term storage.

3. What some pros/cons of VirtualBox Snapshots?

Pros of VirtualBox Snapshots:

- Easy and Simple Backup.
- Simple Rollback.
- Expanding and Creating versions.
- Separation.
- Several Branches.

### Cons of VirtualBox Snapshots:

- Storage above.
- Impact on the Performance.
- Unsuitable for Extended-Duration Backup.
- Difficult management.
- Issues with Snapshot Chain.

4. Navigate to the place where VirtualBox stores the VMs on your Windows PC and then get the size of the folders where the Centos VMs and clones are stored. What are the sizes? Which VM takes up less space? Include screenshots of the disk spaces.

To determine the sizes of the virtual machines and clones, you must locate the folder in which VirtualBox stores its virtual machine files. Without access to the exact configuration, we are unable to provide specific VM sizes as they are dependent on the quantity of data and parameters. Usually, the VirtualBox VM directory has these files. Probably the virtual machine with a smaller disk utilize is one with less snapshots and data.

5. What is the purpose of the IP address "127.0.0.1"?

The computer which we are currently using is the local host, and the IP address 127.0.0.1 is known as the loopback address. It is used to create network connections with it. By joining to 127.0.0.1, a network program performs in self-communication. It is frequently employed to test and identify network problems. It is frequently employed to test and identify network problems. The IP address can be both localhosts are 127.0.0.1. It makes sure that network communication cannot traverse a physical network interface and instead stays on the local computer.