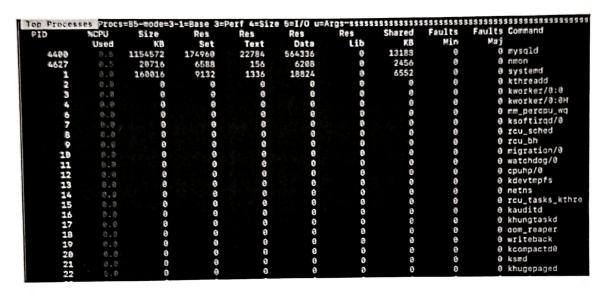
Experiment 8: Automation of system task

Nmon - CPU Monitoring tool

Interactive command-line monitoring tool for CPU, memory, disks, network, NFS, and virtual memory utilization. To view the top process (by utilization), you can execute nmon and press t button.

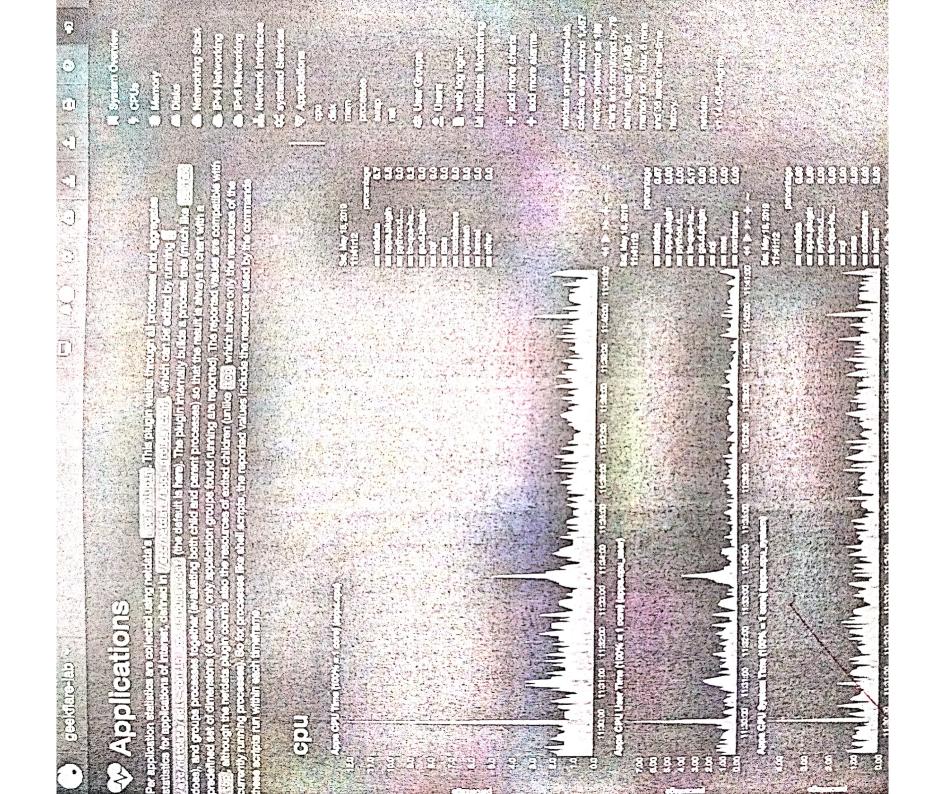


You can install nmon as below.

dnf install nmon

Netdata - Real time performance monitoring

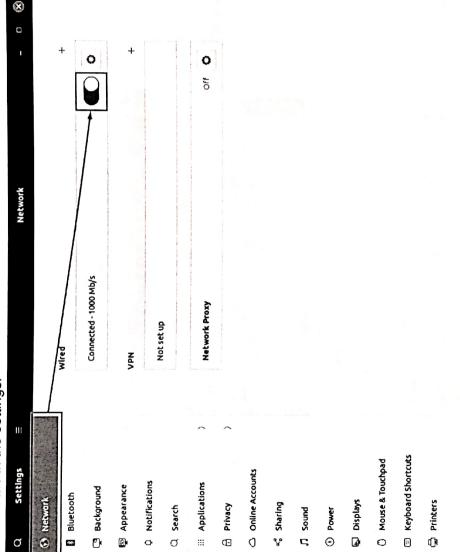
Netdata is a real-time performance monitoring for system resources, applications, web servers, databases, DNS, mail, hardware sensors, and a lot more. It is open-source and getting started is easy. All the data is collected, stored, and streamed for you to visualize interactively. Data is collected every second, so you never miss anything.



Experiment 9: Enabling Internet on Linux VM

Step 1: Ensure the internet connection

First, ensure that the wired network connection is already turned on by going to the network tab in the settings.



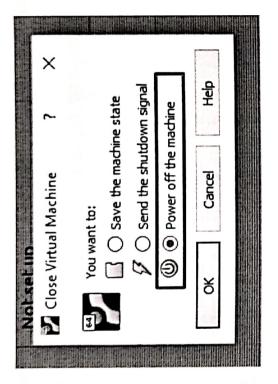
0 seconds of 0 seconds Volume 0%

This ad will end in 1

If the highlighted toggle button in the screenshot attached is OFF, then turn it ON and establish the internet connection.

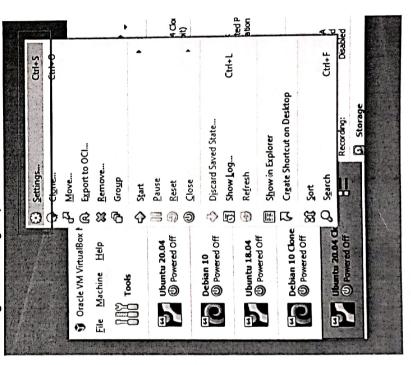
Step 2: Turn OFF the Virtual Machine

For changing the network settings and for the modifications to take effect, turn off the If you still do not have the internet connection established, you need to change the machine's network adapter settings from the Virtual machine settings. virtual machine.

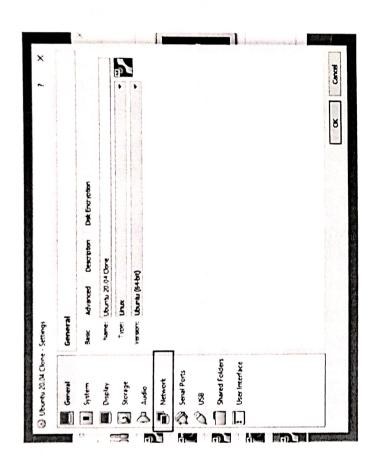


Step 3: Open network settings of Virtual Machine

After closing the Virtual Machine, open the virtual machine settings by right-clicking on the machine and selecting the settings option from the context menu.

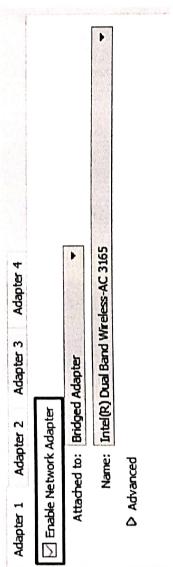


In the settings window that appeared, click on the Network tab from the left bar.



Step 4: Enable the Network Adapter

In the machine's Network Adapter settings, click on the "Enable Network Adapter" to enable the network adapter and modify its settings.



If it is unchecked, then definitely this was the reason behind the internet connection not working because there was no network adapter assigned to the Virtual machine by the VirtualBox.

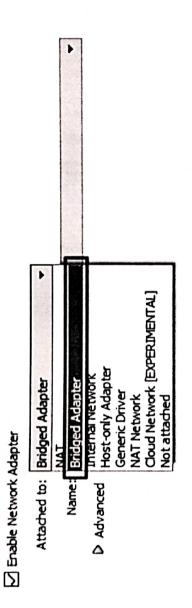
Step 5: Select the Network Device

After enabling the network adapter for the virtual machine, you can select the preferred method from the "attached to" dropdown menu to attach the virtual network adapter to your host OS network.

Intel(R) Dual Band Wireless-AC 3165 **Bridged Adapter** Enable Network Adapter Name: Attached to:

D Advanced

We will suggest selecting the Bridged Adapter because this way, the virtual machine will be connected to the network using the host OS Ethernet adapter.

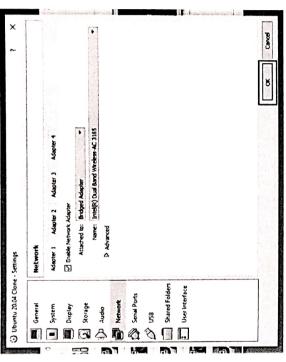


After selecting the appropriate method from the "Name" drop-down, select the right device that you want to choose.

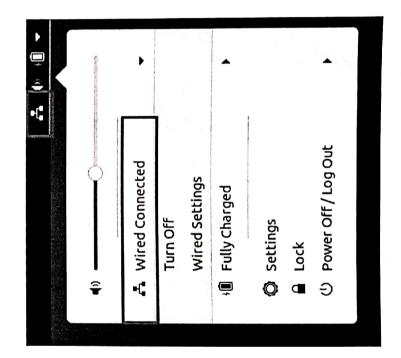
Intel(R) Dual Band Wireless-AC 3165 Intel(R) Dual Band Wireless-AC 3165 Realtek PCIe GbE Family Controller Attached to: Bridged Adapter ☑ Enable Network Adapter Name: anced D Ad

Step 6: Save Settings and start the Virtual Machine

After configuring all the described settings, click on the OK button to save the settings.



And start the machine by double-clicking on the machine.



You will have the internet connection working perfectly fine on your virtual machine in the virtual box.

