

U18ITI7202-Cloud Computing

Lab Exercise – 2

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Roll no : 23BIT023

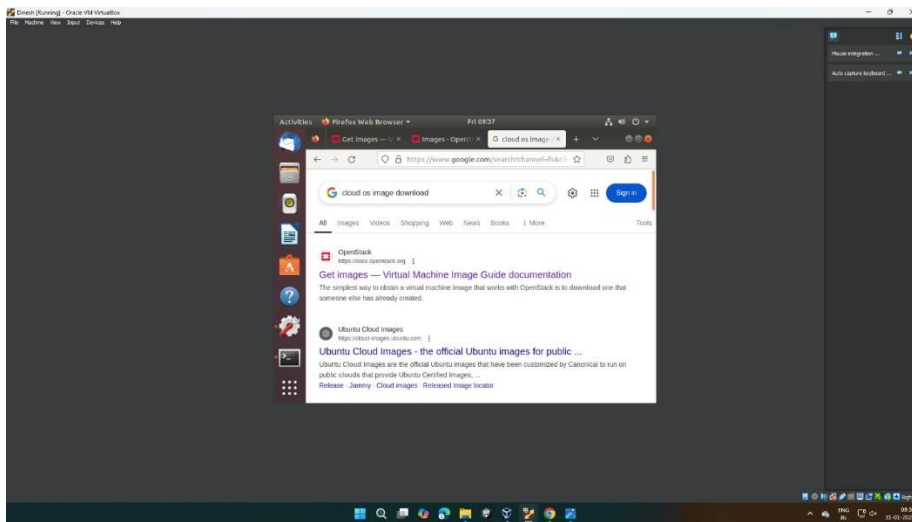
Aim:

To install a customized cloud OS image using OpenStack in a Virtual Machine.

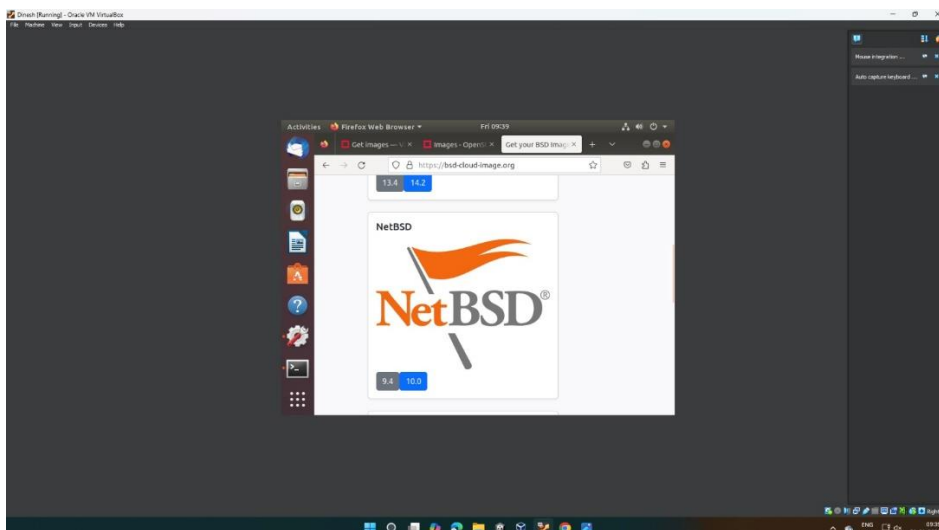
Procedure:

Downloading and Setting Up the Cloud OS Image

1. Open a web browser and search for free customized cloud OS images.



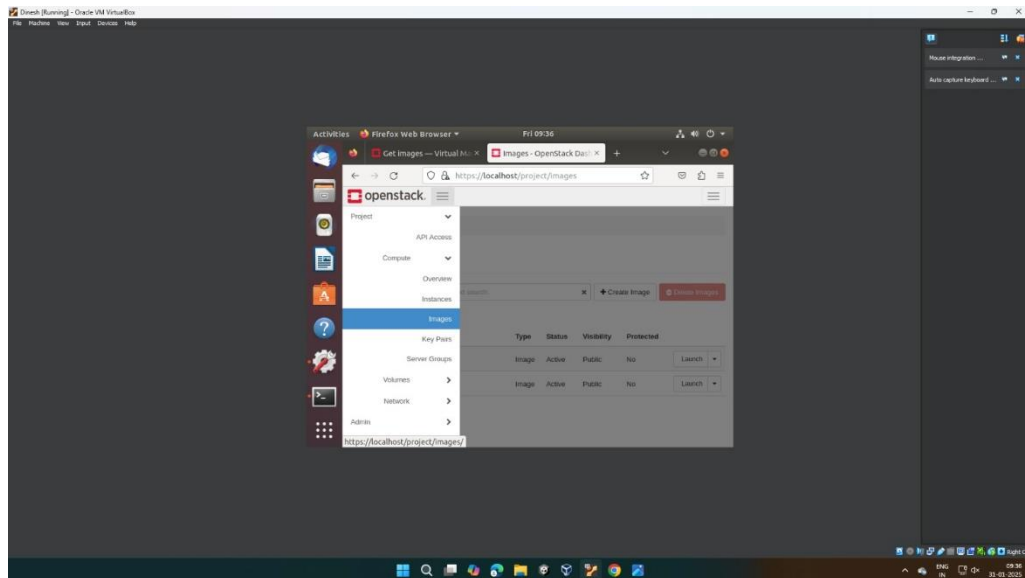
2. Download the desired cloud OS image, here we use NetBSD, as it is lightweight and resource-efficient.



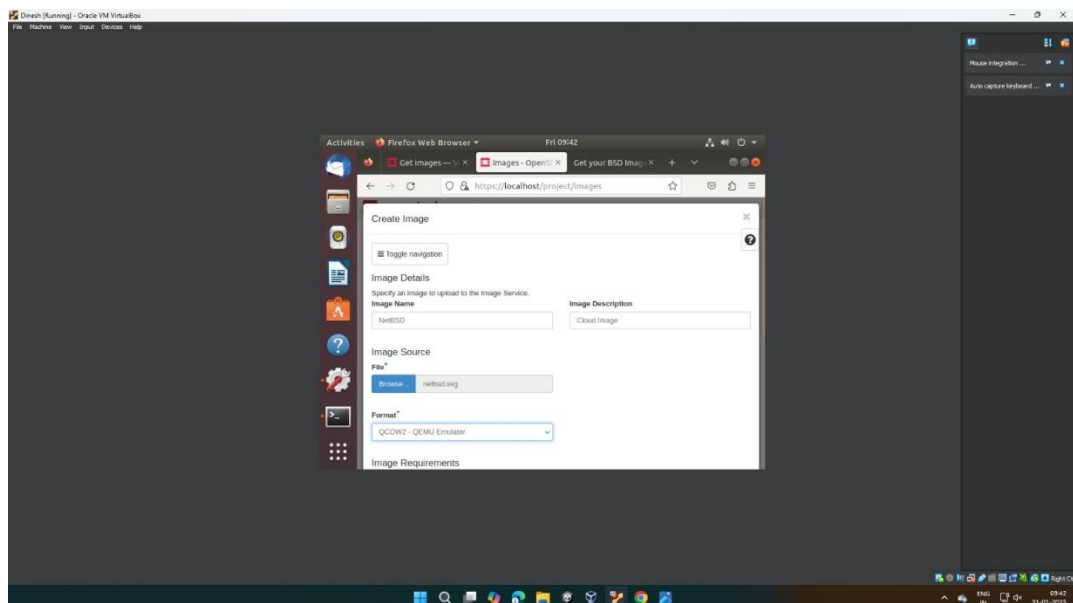
3. Open VirtualBox and set up a virtual machine.

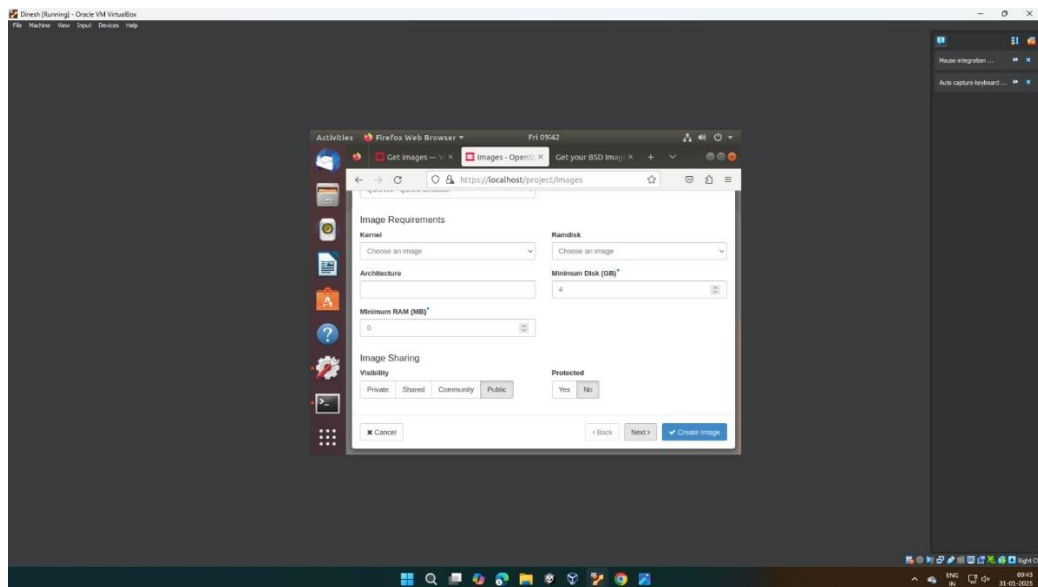
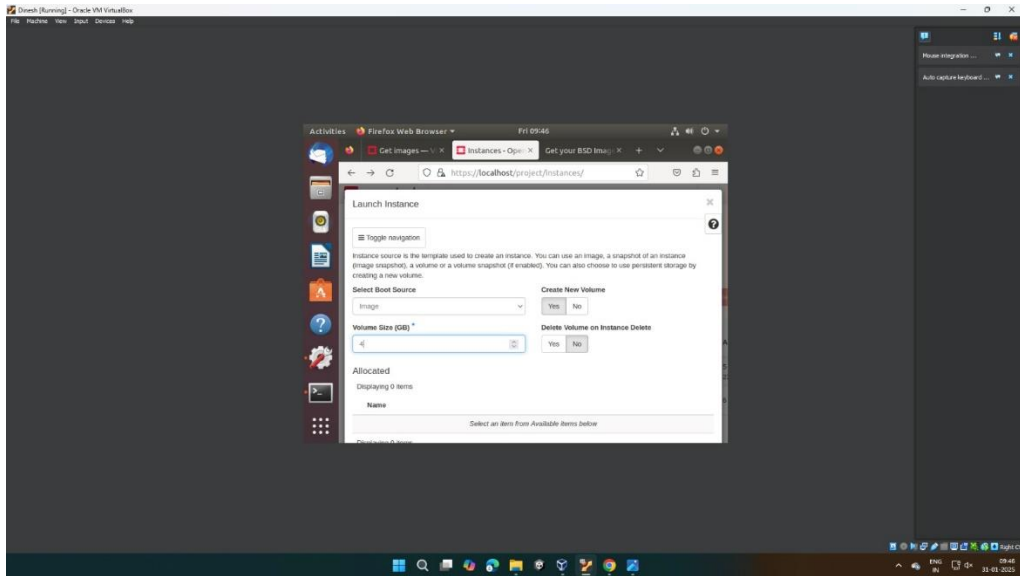
Creating a Customized Image in OpenStack

4. Log in to OpenStack.
5. Navigate to the Images tab and click Create Image.

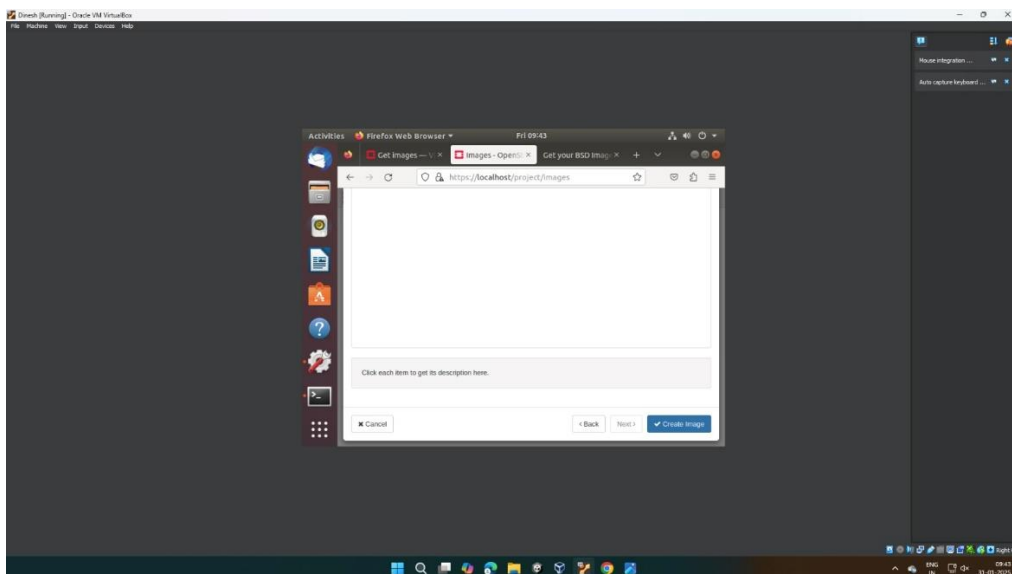


6. Provide the image details:
 - Image Name: NetBSD
 - Format: QEMU Emulator
 - Minimum Disk: 4 GB
 - Minimum RAM: 2 GB
 - Image Sharing: Public

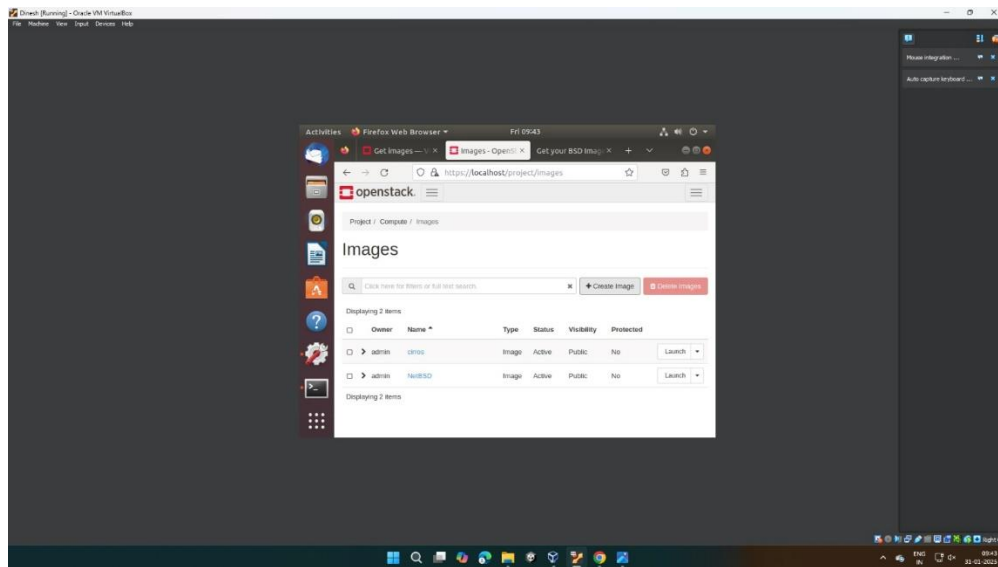




7. Click Next until the Create Image button is enabled, then click it.

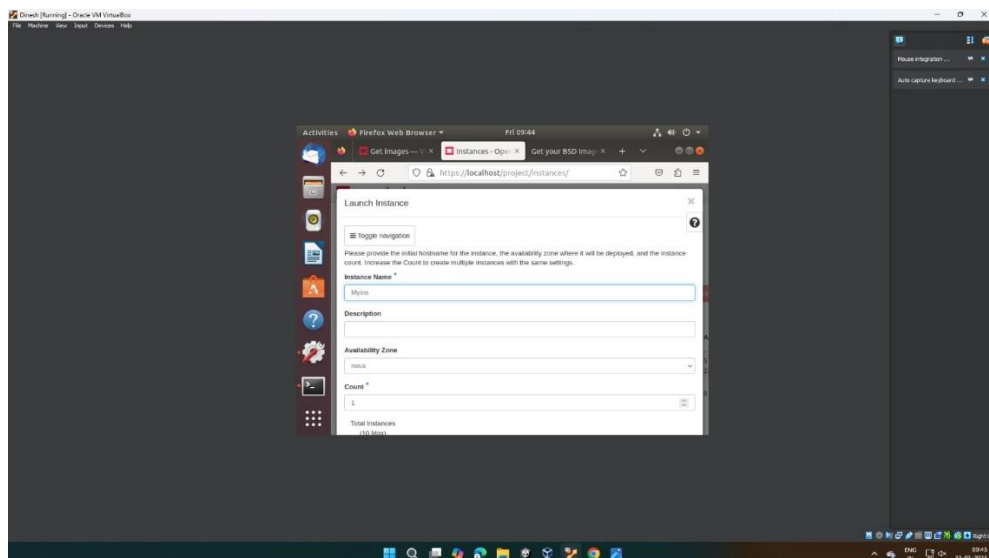


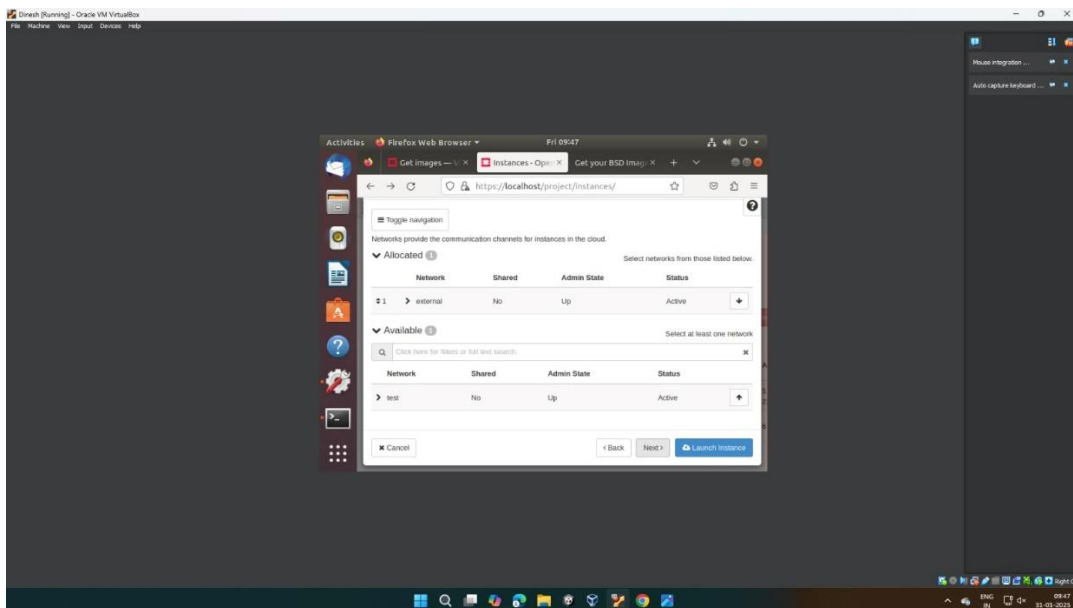
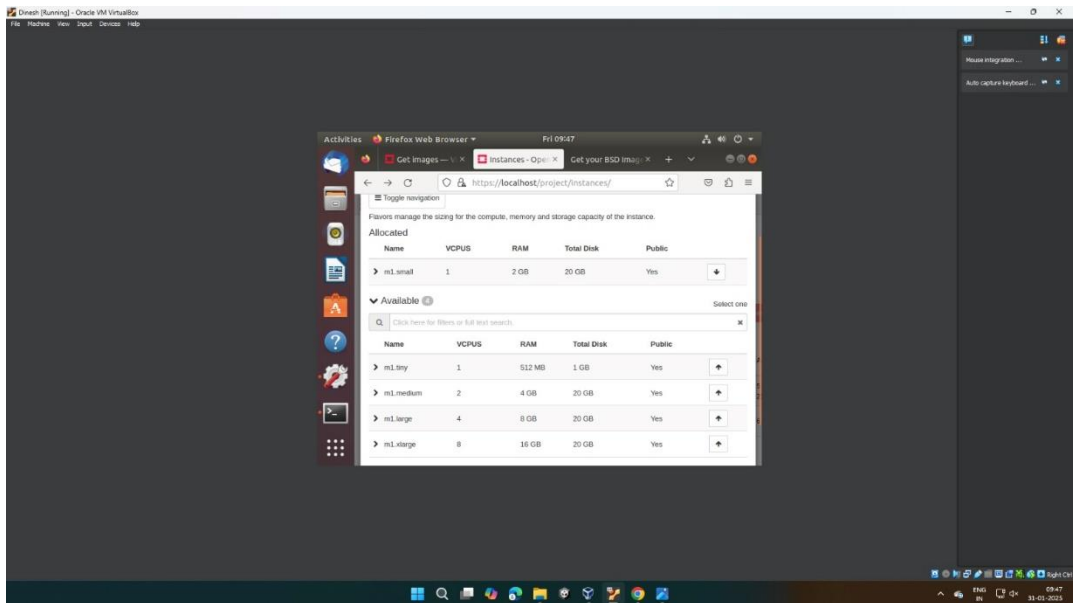
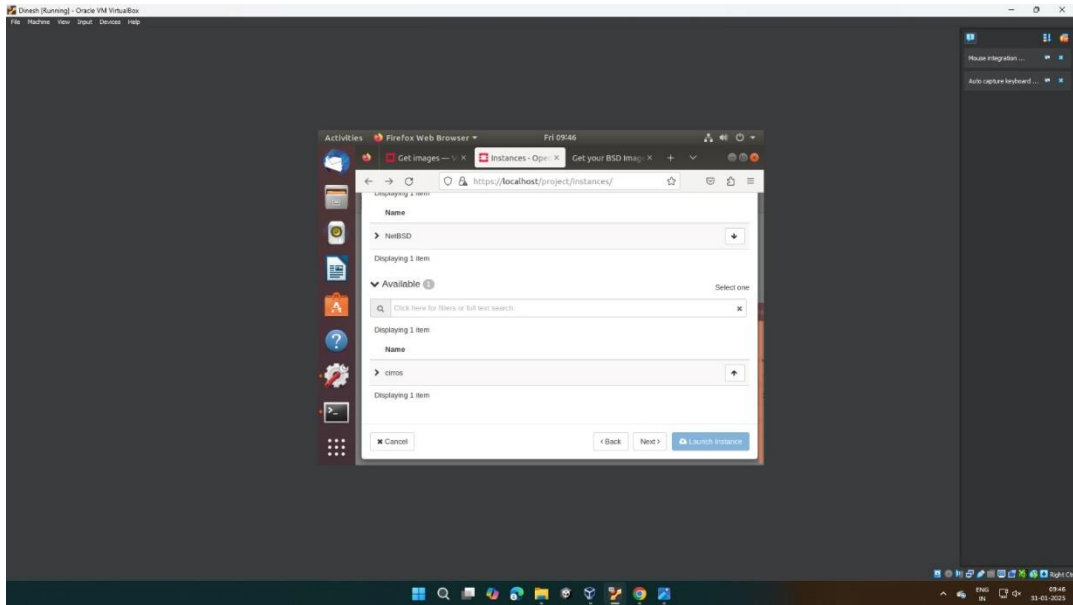
8. The newly created image will now appear in the Images tab.



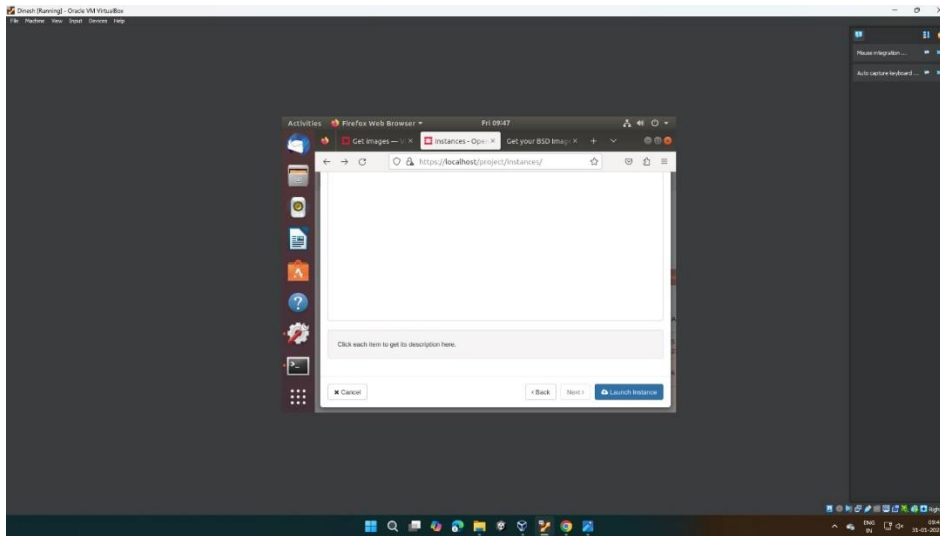
Launching an Instance in OpenStack

9. Navigate to the Instances tab and click Create Instance.
10. Provide the instance details:
- Instance Name: Myins
 - Boot Source: Image
 - Volume Size: 4 GB
 - Source Image: NetBSD
 - Flavor: m1.small (to allocate sufficient resources)
 - Network: External





11. Click Next until the Launch Instance button is enabled, then click it.



Handling Launch Failure via Terminal

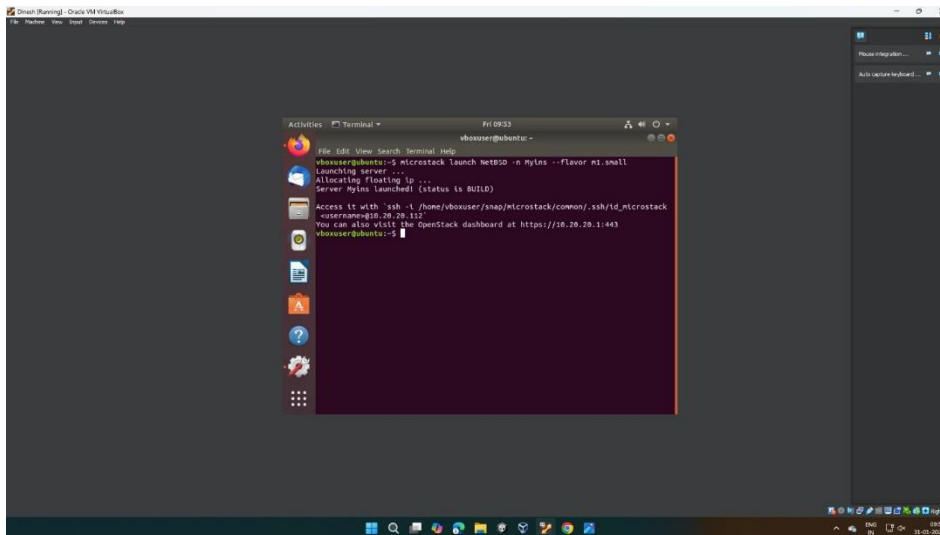
12. If the instance fails to launch, delete the failed instance and use the terminal.

13. Open the terminal and enter the command:

`microstack launch NetBSD -n Myins`

14. If the instance still fails, specify the flavor explicitly:

`microstack launch NetBSD -n Myins --flavor m1.small`



RESULT:

We have successfully installed and launched our customized cloud OS image using OpenStack.