U18ITI7202-Cloud Computing

Lab Exercise – 1

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Configuring openstack cloud

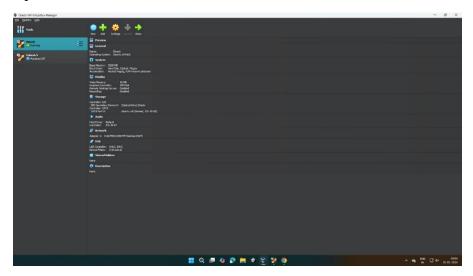
Aim:

To install and configure openstack.

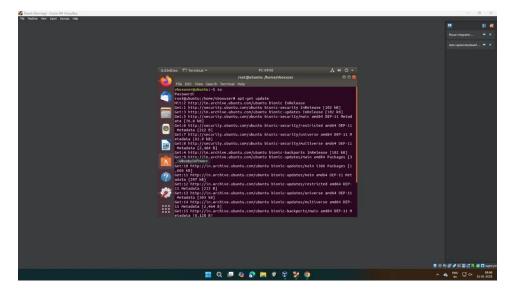
Procedure:

Setting Up OpenStack

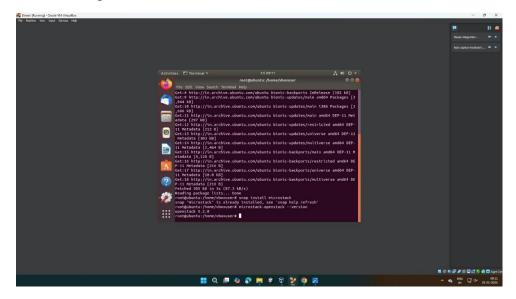
1. Open VirtualBox and start the virtual machine.



- 2. Open the terminal.
- 3. Ensure the system is up to date by running: sudo apt-get update

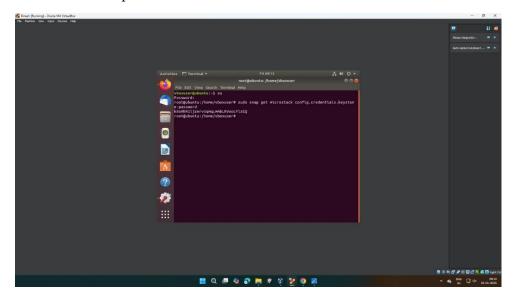


- 4. Initialize MicroStack and configure it as a control node: sudo microstack init --auto --control
- 5. Verify the installation by checking the OpenStack version: microstack.openstack –version



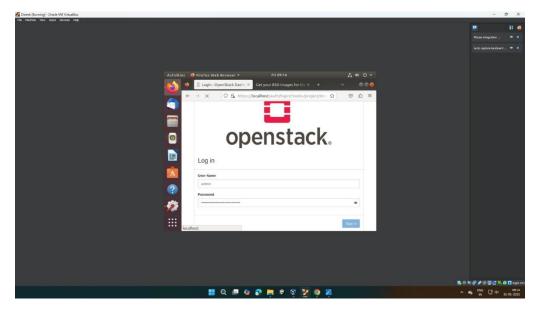
Logging into OpenStack

- 6. Retrieve the OpenStack login credentials: sudo snap get microstack config.credentials.keystone-password
 - o Note the password. The default username is admin.



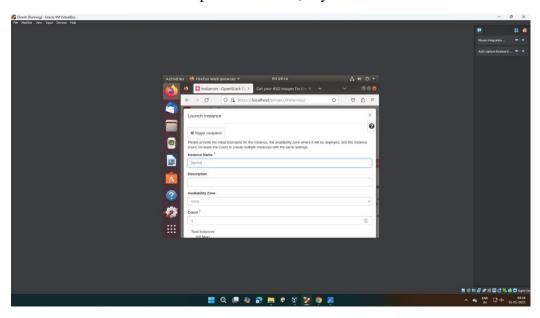
- 7. Open a web browser (Firefox) and go to:
 - o http://localhost or <a href="http://localhost or <a href="h

8. Log in using the retrieved credentials.



Launching an Instance in OpenStack

- 9. Navigate to the Instances page from the OpenStack dashboard.
- 10. Click on Create Instance and provide a name, MyVm.

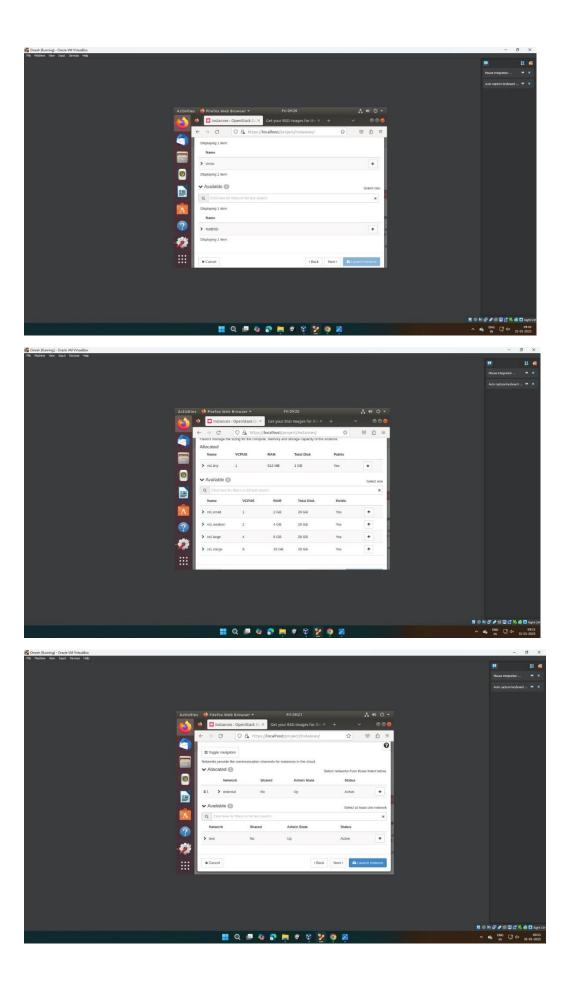


11. Configure the instance as follows:

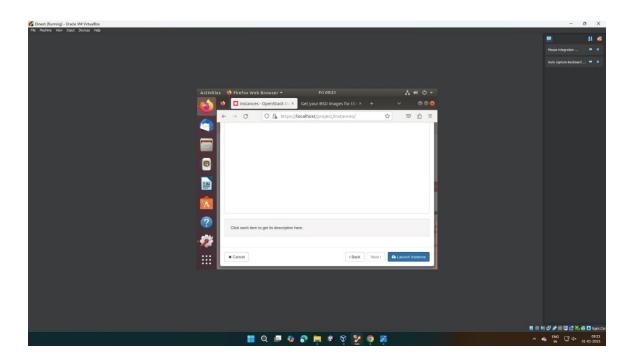
o Source: Select the Cirros image.

o Flavor: Choose m1.tiny.

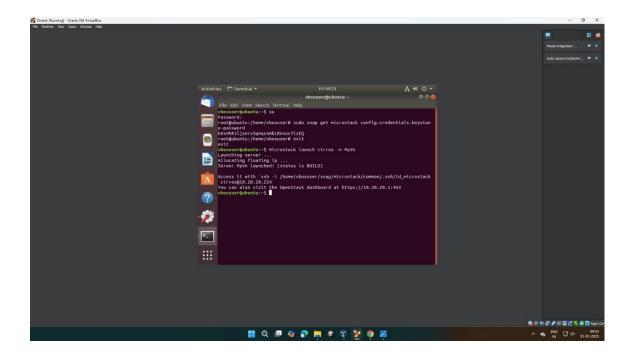
Networks: Select External.



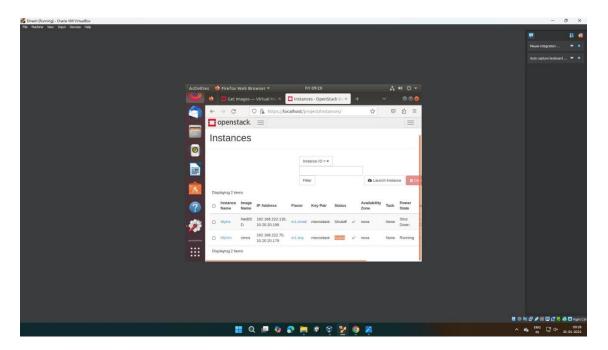
12. Proceed by clicking Next until the Launch Instance button is enabled, then click it.



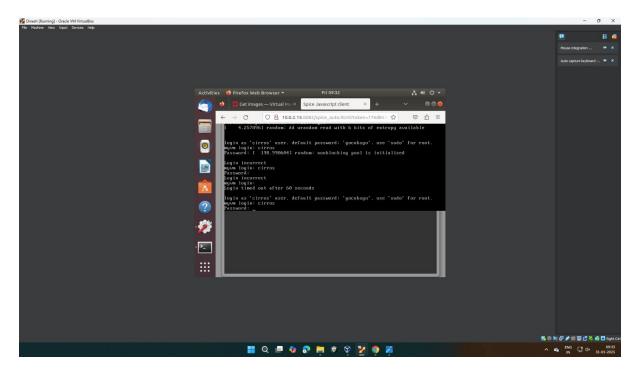
13. If the instance fails to launch via the dashboard, use the following terminal command: microstack launch cirros -n MyInstance



14. Refresh the Instances page to verify that the instance is running.



15. To confirm successful launch, access the Console page and run basic commands.



RESULT:

We have successfully installed and configured OpenStack on our virtual machine, setting up a private cloud.