**Experiment No.7**

* **Title:-** Procedure to launch virtual machine using Try Stack and OpenStack.
* **Aim:**- Obtain the Procedure to launch a virtual machine using Try Stack and OpenStack.
* **Objective:-**

1. Creating and using a local OpenStack environment.
2. Access The Dashboard of OpenStack.
3. Launch VM Using the OpenStack Dashboard.

* **Theory:-**

1. **What is TryStack?**

**Ans->** TryStack was a free, public OpenStack sandbox, a community-maintained OpenStack cloud, designed to allow users to experiment with OpenStack and test applications without needing their own hardware. However, it has been discontinued.

1. **What is OpenStack?**

**Ans->** OpenStack is an open-source cloud operating system that provides Infrastructure-as-a-Service (IaaS) functionality, allowing organizations to build and manage both public and private clouds by managing compute, storage, and networking resources.

**1. Use DevStack for a Local OpenStack Environment**

**DevStack** is a lightweight way to install OpenStack on your local machine, mainly for development and testing. Here’s a basic outline:

**a) Prepare Your Machine**:

* Use a Linux environment, ideally Ubuntu 20.04 or a later version.
* Ensure that you have at least 8GB of RAM, 2 vCPUs, and enough storage (at least 20GB free).

**b) Clone the DevStack Repository**:

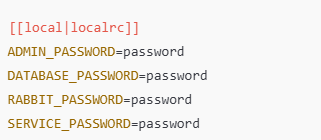


**c)** **Configure DevStack**:

* Create a configuration file named local.conf:



or Add the following configuration to the file:



**d)** **Run the Installation**:



**e)** **Access OpenStack Dashboard**:

* Once DevStack has finished, open a browser and go to <http://localhost/dashboard.>
* Log in with the username admin and the password you set in local.conf.

**f)** **Launch a VM in the Dashboard**:

* Navigate to the “Project” tab > “Compute” > “Instances.”
* Click “Launch Instance” and configure your VM, such as selecting an image, flavor, network, etc.
* Click “Launch” to start the VM.

**Access the Dashboard**:

* Open a browser and go to http://<vm-ip-address>/dashboard.
* **Outcome:-**

Successfully learn the Procedure to launch virtual machine using Try Stack and OpenStack.

* **Result:-**

Thus, we completed the experiment onProcedure to launch virtual machine using Try Stack and OpenStack.