

Date:-

Name:- Jadhav Prathamesh Arvind  
Roll No:- 3014

## 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:-**

**a) 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.

**b) 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.

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- Ensure that you have at least 8GB of RAM, 2 vCPUs, and enough storage (at least 20GB free).

**b) Clone the DevStack Repository:**

```
git clone https://opendev.org/openstack/devstack  
cd devstack
```

**c) Configure DevStack:**

- Create a configuration file named local.conf:

```
nano local.conf
```

or Add the following configuration to the file:

```
[[local|localrc]]  
ADMIN_PASSWORD=password  
DATABASE_PASSWORD=password  
RABBIT_PASSWORD=password  
SERVICE_PASSWORD=password
```

**d) Run the Installation:**

```
./stack.sh
```

**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.

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**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 on Procedure to launch virtual machine using Try Stack and OpenStack.