

ASSIGNMENT 1

Cloud Computing



AMAL TOMY
S9 INT MCA
Roll No: 10

OpenStack

Introduction

OpenStack is an open-source cloud computing platform that allows for the management of large pools of compute, storage, and networking resources. Below is a step-by-step guide on how OpenStack was installed on a Windows 11 system using Windows Subsystem for Linux (WSL).

Step 1: Set Up WSL on Windows 11

1. Begin by enabling WSL on the Windows 11 system. This can be done by running the following command in PowerShell with admin privileges:

wsl --install

2. After the installation, reboot the system to complete the setup.

Step 2: Install Ubuntu via WSL

1. Install the Ubuntu distribution for WSL by running:

wsl --install -d Ubuntu

2. After installation, launch Ubuntu from the Start menu and set up a user account.

Step 3: Update Ubuntu and Install Essential Tools

1. Update the Ubuntu system to ensure all packages are up to date:

sudo apt-get update && sudo apt-get upgrade

2. Install Git, which is required to clone the DevStack repository:

sudo apt-get install git

Step 4: Clone DevStack and Install OpenStack

1. Clone the DevStack repository onto the system:

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

- 2. Navigate to the devstack directory and create a local conf file with the necessary configuration.
- 3. To initiate the installation, run the following command:

./stack.sh

This step will take some time, as it pulls in all required components and sets up OpenStack.

Step 5: Access the OpenStack Dashboard

1. After the installation is complete, the script will provide a URL for accessing the OpenStack dashboard.

2. Open the URL in a web browser and log in using the default credentials:

- Username: admin

- Password: [your_password]

Step 6: Verify Installation

1. Check the status of the OpenStack services to ensure everything is running smoothly: openstack service list

2. Test some basic commands to interact with OpenStack, like listing available servers: openstack server list

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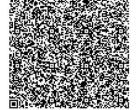
Learning OpenStack

on August 29, 2024



Congratulations! You make us proud!

Thirumala Arohi Executive Vice President and Global Head Education, Training & Assessment (ETA)



Issued on: Saturday, August 31, 2024 To verify, scan the QR code at https://verify.onwingspan.com