CLOUD COMPUTING 2023

ASSIGNMENT ON Openstack (TOTAL MARKS 30)

List of tasks

Task-1: Launch two VM instances;

 Log in to cloud platform using the URL and credentials mentioned below

o URL: http://10.72.40.100

User Name: student roll number in upper case (e.g. 18CS30001)
 Password: student roll number in upper case (e.g. 18CS30001)

Marks: (6+6=12)

- Select the option to launch a new virtual machine instance
- Choose the desired configuration for the instance (e.g. operating system, flavor, network, etc.)
 - o Note: Make a **config.txt file** and add the following script:

#cloud-config

password: ubuntu@\$#
chpasswd: {expire: False}

ssh_pwauth: yes

bootcmd:

- printf "nameserver 172.16.1.180" >> /etc/resolv.conf
- **Upload config.txt** file while launching the VMs when prompted for **configuration**.
- To access the instance, Edit Port Security Group using below steps:
 Project --> Compute --> Instances --> Open Instance --> Interfaces -- Actions
 --> Select Edit Port from drop down --> uncheck Port Security --> Update.
- Repeat the above steps to launch a second instance

Task-2: Log-in to one VM instance and install GCC compiler;

Marks: (3+5+4+3=15)

- Log in to the first virtual machine instance using the proper credentials
- Run the following commands in the terminal:
 - sudo apt update (update)
 - o sudo apt install build-essential (Install build-essential)
 - gcc --version (check GCC version, if installed successfully)
- Use the **nano** editor to write a **C program** to print your roll number
- Compile and run the C program using GCC

Task-3: Exit and delete the instances

- Marks : (1+1+1=3)
- Exit from the virtual machine instance you are logged in to
- Shut down the running instances
- Delete the instances from the platform.