

CLOUD COMPUTING

ASSIGNMENT -1

Pragathi Thammaneni

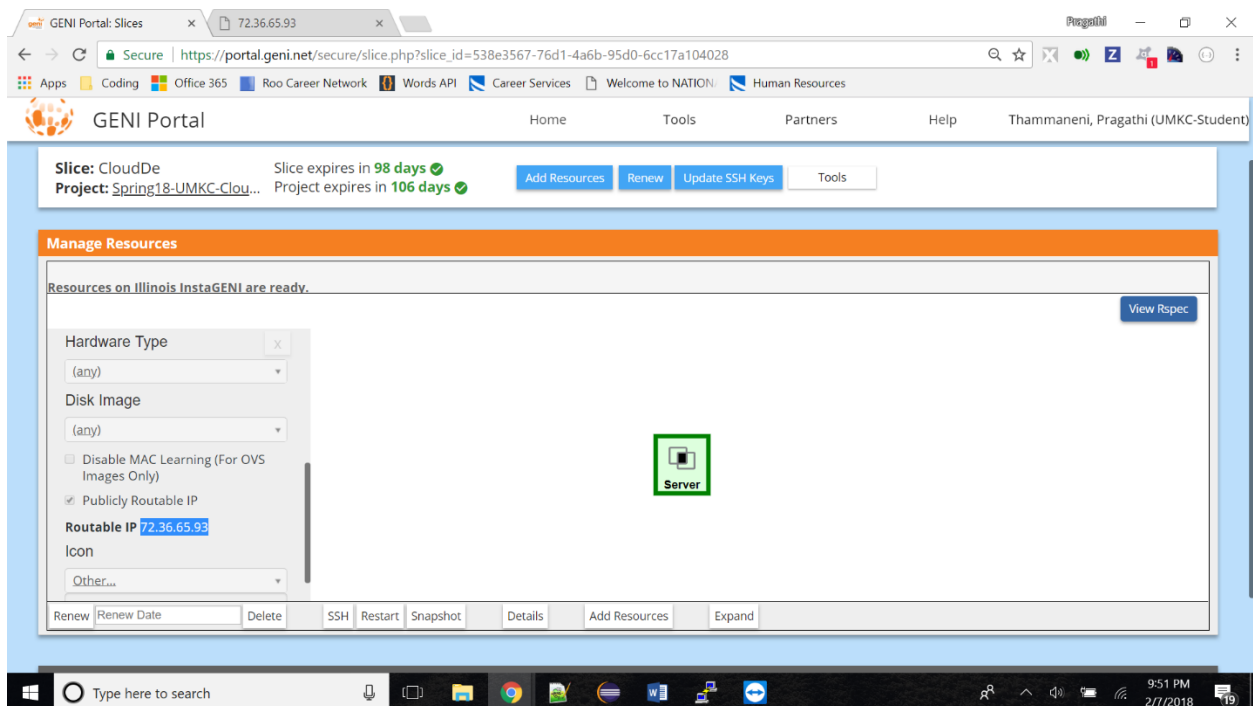
Student Id: 16230695

VM Creation:

By logging to the Geni Portal via the blackboard credentials -Created a Slice in the project and added a VM by reserving the resources.

Below screenshot provides the details of VM creation for the slice created.

Screenshot:



Resource allocation:

After adding the node then reserved the resources. Below screen shot provides the resource allocation and the active status of the resources.

Screenshot:

The screenshot shows the GENI Portal interface. The browser address bar displays the URL: [https://portal.geni.net/secure/listresources.php?slice_id=538e3567-76d1-4a6b-95d0-6cc17a104028&am_id\[\]=267](https://portal.geni.net/secure/listresources.php?slice_id=538e3567-76d1-4a6b-95d0-6cc17a104028&am_id[]=267). The page title is "Resources on slice: CloudDe". Below the title, it says "Queried 1 of 1 aggregates." and provides buttons for "Refresh All Details" and "Refresh Status Only". A table shows the status of the aggregate:

Status	Aggregate
READY	Illinois InstaGENI

Below this, it says "Aggregate Illinois InstaGENI's Resources:" and "Node #1:". A table shows the details of the node:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	Server	pc3	2018-02-11T17:10:11.000Z	default-vm	Server.CloudDe.ch-genet-instageni.illinois.edu

Below the table, there is a "Login" section with the following SSH commands:

```
ssh_nt66@pcvm3-22_instageni.illinois.edu
ssh_choib@pcvm3-22_instageni.illinois.edu
ssh_mmc09@pcvm3-22_instageni.illinois.edu
ssh_rzc46@pcvm3-22_instageni.illinois.edu
```

At the bottom, there is a link to "Show Raw XML Resource Specification (Manifest)".

Website hosted:

Created a public webpage from putty and launched the website by using the Publicly Routable IP.

Below screen shot provides the web page creation in putty.

Screenshot:

The screenshot shows a terminal window with the following output:

```
ptq6c@server: /var/www/html
$ curl -s http://security.ubuntu.com/ubuntu xenial-security/universe 1386 Packages
Get:121 http://security.ubuntu.com/ubuntu xenial-security/universe Translation-en
[102 kB]
Fetched 4,747 kB in 3s (1,509 kB/s)
Building dependency tree
Reading state information... Done
198 packages can be upgraded. Run 'apt list --upgradable' to see them.
ptq6c@server:~$ sudo apt-get -y install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.1-0
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.1-0
0 upgraded, 7 newly installed, 0 to remove and 198 not upgraded.
Need to get 1,377 kB of archives.
After this operation, 5,885 kB of additional disk space will be used.
```

Below the terminal output, there is a table showing the status of the node:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	Server	pc3	2018-02-11T17:10:11.000Z	default-vm	Server.CloudDe.ch-genet-instageni.illinois.edu

Below the table, there is a "Login" section with the following SSH commands:

```
ssh_ptq6c@pcvm3-22_instageni.illinois.edu
ssh_choib@pcvm3-22_instageni.illinois.edu
ssh_mmc09@pcvm3-22_instageni.illinois.edu
ssh_rzc46@pcvm3-22_instageni.illinois.edu
```

At the bottom, there is a link to "Show Raw XML Resource Specification (Manifest)".

Below Screenshot provides the website that has been hosted on the Publicly routable IP

Screenshot:



The below link provides the Publicly Routable IP for the website

<http://72.36.65.93/>

Epilog:

I became more acquainted with and presented to different cloud stages which is a new concept to me .

The fun piece of the task is the chance to take in the new ideas which is presently booming in the present programming industry and there is no such thing as troublesome. The task ran without any difficulty that it is easy going through each progression.