**Experiment No. 2.1**

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**Branch: MCA - CCD Section/Group: MCD-1/ Grp A**

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**Subject Name: CI/CD Pipelines Subject Code: 22CAP-781**

1. **Aim/Overview of the practical:**

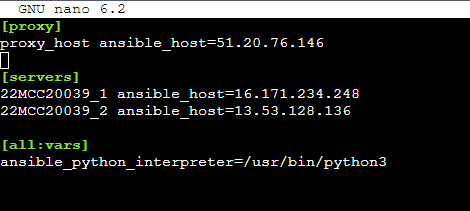
Download the geerlingguy.haproxy role via Ansible Galaxy.

Then create a playbook named mainrole.yml that will run on the proxy host group and will accomplish the following tasks:

Load balance http requests between the hosts in the webservers host group by using the geerlingguy.haproxy role.

1. **Code for practical:**

* Open AWS account and connect to ansible\_master instance.
* Open inventory file and add proxy in it along with webservers.



* Install geerlingguy.haproxy using following command.

***ansible-galaxy install geerlingguy.haproxy***

* Make a file mainrole.yml and add following code:

---

- name: Configure HAProxy for Load Balancing

  hosts: proxy

  become: true

  tasks:

    - name: Include geerlingguy.haproxy role

      include\_role:

        name: geerlingguy.haproxy

    - name: Configure HAProxy for Load Balancing

      vars:

        haproxy\_frontends:

          - name: 'http-in'

            bind: '\*:80'

            default\_backend: 'webservers'

        haproxy\_backends:

          - name: 'webservers'

            servers:

              - name: '22MCC20039\_1'

                address: '16.171.234.248'

                port: '80'

              - name: '22MCC20039\_2'

                address: '13.53.128.136'

                port: '80'

      include\_role:

        name: geerlingguy.haproxy

* In this playbook, it includes the geerlingguy.haproxy role.
* Configures HAProxy frontends and backends, specifying the hosts in the webservers group.
* Run mainrole.yml file using command:

***ansible-playbook -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible\_key mainrole.yml***

