**Experiment No. 1.3**

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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:**

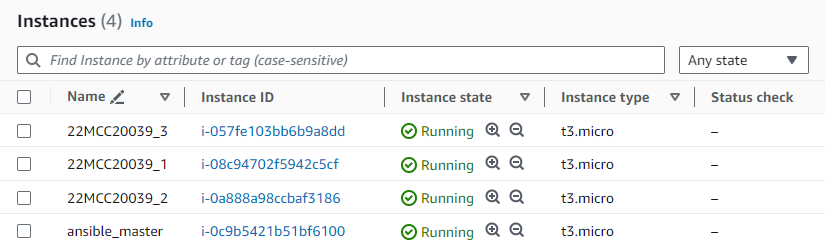
a) Install and Configure Ansible Server in AWS/Microsoft Azure/Docker and two nodes (YOUR UID\_1, YOUR UID\_2).

b) Create a connection between Ansible Server and Nodes.

1. **Code for practical:**

**A)**

* Open AWS account and click to EC2 instance.
* Create an instance with name ansible\_master and create a security key RSA, pem.
* Select Ubuntu and click on create Instance.
* When instance start, select and click on Instance State, Click on Actions > Create Similar instances.
* Select same security key for ssh and create 3 new instances.



* Select master node and click on connect by ssh.

**B)**

* Use following command to install ansible

***sudo apt update***

***sudo apt install ansible -y***

* Go to .ssh and create an ansible\_key with vim and paste contents of security key.pem file.

***cd .ssh***

***vim ansible\_key***

* Initlize ssh key using your Private server address:

***sudo ssh -i ~/.ssh/ansible\_key*** [***ubuntu@13.53.124.96***](mailto:ubuntu@13.53.124.96)

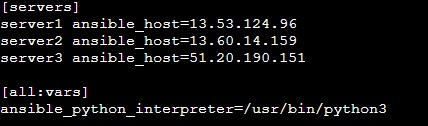
* Make a directory named ansible and inside it make a file using vim hosts.

***mkdir ansible***

***cd ansible***

***vim hosts***

* Inside hosts add server IP addresses and If you want to install any dependencies you can do it in here.



* Provide ansible hosts list like following

***ansible-inventory --list -y /home/ubuntu/ansible/hosts***

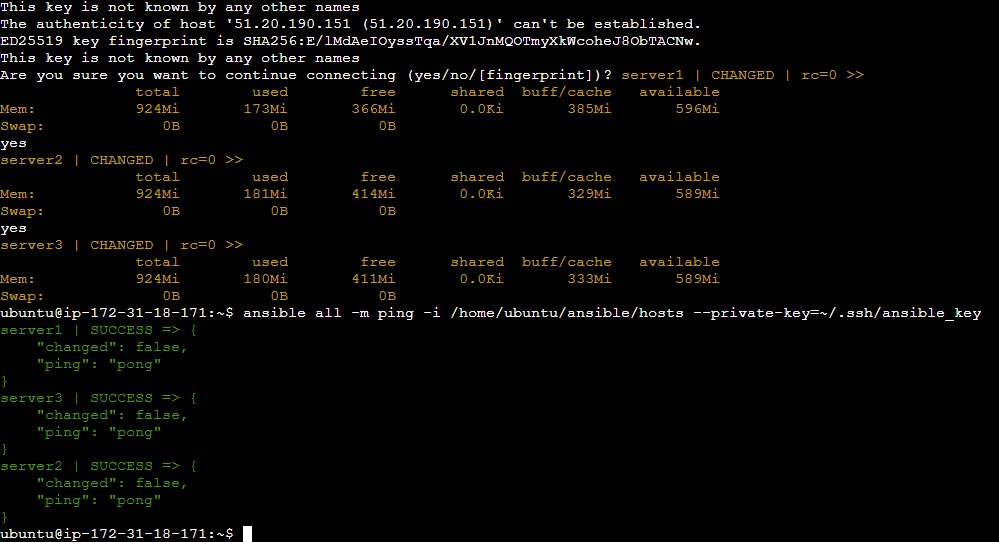
* Provide permissions to .ssh and ansible\_key

***chmod 700 ~/.ssh***

***chmod 600 ~/.ssh/ansible\_key***

* To ping all servers use command:

***ansible all -m ping -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible\_key***



* To view free space in servers, use command:

***ansible all -a "free -h" -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible\_key***

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