Two days workshop on Cloud Computing and DevOps

Ansible

First we have to create a two AWS instances as a Server Machine and Client Machine.

Server Machine	Client Machine
1. sudo apt-get update	1. sudo apt-get update
2. sudo apt-get upgrade	2. sudo apt-get upgrade

Now we will install Ansible on the both server and client machine.

Server Machine	Client Machine
1. sudo apt-get install ansible	1. sudo apt-get install ansible

Now, we are generating a RSA public key because there are based on networking so we need a public key to access with the server and client.

Server Machine	Client Machine
1. ssh-keygen –t rsa	1. ssh-keygen –t rsa

(Just Press Enter key for the 3 times on the both server and client machine)

Now we are setting the SSh-key so first we have to change directory (cd) to .ssh and next we have to list files (ls) and in server machine we have to copy the public key so we are using cat command and then will move to client machine there will paste at a authorized_key and same thing have to do done from clint machine to server machine.

Server Machine	Client Machine
1. cd .ssh	1. cd .ssh
2. ls	2. ls
3. cat id_rsa.pub	3. sudo vi authorized_key
4. sudo vi authorized_key	4. cat id_rsa.pub

Next, we have to configure the Hosts file so we need to update the IP-address of server in client machine and also we have to update client IP-address in server machine.

Server Machine	Client Machine
1. sudo vi /etc/ansible/hosts	1. sudo vi /etc/ansible/hosts

Once the connection is completed now we have to check the connecting from the server to client machine and from client to server machine so we are using the ping - pong.

Server Machine	Client Machine
1. ansibe all –m ping	1. ansible <ip-address> -m ping

Now we are implement the application using a Playbook.so first we have to create a file using yaml then we have to write the commands to install the apache 2 from server machine to client machine

Server Machine	Client Machine
1. sudo vi apache2.yaml	Don’t do anything on client machine

Code:

```
---
- hosts:  all  #server host or group name
  become:  yes
  tasks:
    - name: install apache2
      apt: name=apache2 update_cache=yes state=latest
```

Next we will run the ansible playbook in server machine to install the apache2 at client machine.

Server Machine	Client Machine
1. ansible-playbook <filename>.yaml	1. service apache2 status