EXPERIMENT 11
AIM: INSTALLING AND SETUP ANSIBLE SERVER AND NODES
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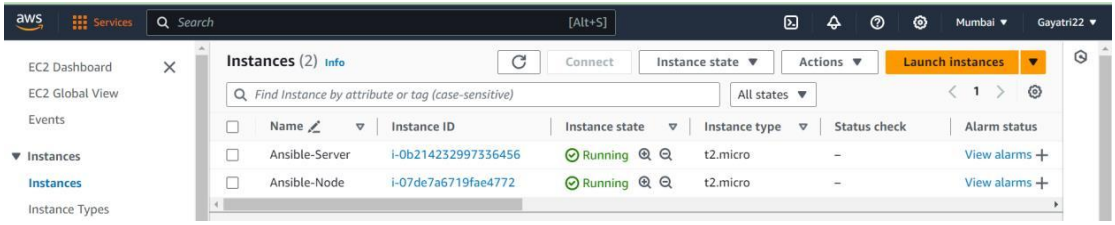
BATCH : 3(NON HONS.)

1.Create 2 AWS linux EC2 instances



2. Install ansible in Server machine.

```
[root@ip-172-31-5-249 ec2-user]# ansible --version
ansible 2.9.27
```

3. Add private ip of Node machine in list of known hosts in **/etc/ansible/hosts** file.

```
#   - Groups of hosts are delimited by [header] elements
#   - You can enter hostnames or ip addresses
#   - A hostname/ip can be a member of multiple groups

# Ex 1: Ungrouped hosts, specify before any group headers.
[upes]
172.31.5.113
## green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10

# Ex 2: A collection of hosts belonging to the 'webservers' group

## [webservers]
## alpha.example.org
## beta.example.org
## 192.168.1.100
## 192.168.1.110
-- INSERT --
```

i-03c26553f4fe38a35 (Ansible-Server)

PublicIPs: 65.2.79.47 PrivateIPs: 172.31.5.249

4. adduser ansible in both server and node machine

```
[root@ip-172-31-5-249 ec2-user]#  vi /etc/ansible/hosts
[root@ip-172-31-5-249 ec2-user]# adduser ansible
[root@ip-172-31-5-249 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-5-249 ec2-user]#
```

i-03c26553f4fe38a35 (Ansible-Server)

PublicIPs: 65.2.79.47 PrivateIPs: 172.31.5.249

```
[ec2-user@ip-172-31-5-113 ~]$ sudo su
[root@ip-172-31-5-113 ec2-user]# adduser ansible
[root@ip-172-31-5-113 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-5-113 ec2-user]#
```

i-046f5254e32cc5213 (Ansible-Node)

PublicIPs: 13.127.24.244 PrivateIPs: 172.31.5.113

we have to generate a key pair and copy that into node machine.

```
[ansible@ip-172-31-5-113 ~]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ansible/.ssh/id_rsa):
Created directory '/home/ansible/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ansible/.ssh/id_rsa.
Your public key has been saved in /home/ansible/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:qyD3kEBVG34x6+4adgmPAWaFsskMJQEBtT0Ef7UDnRE ansible@ip-172-31-5-113.ap-south-1.compute.internal
```

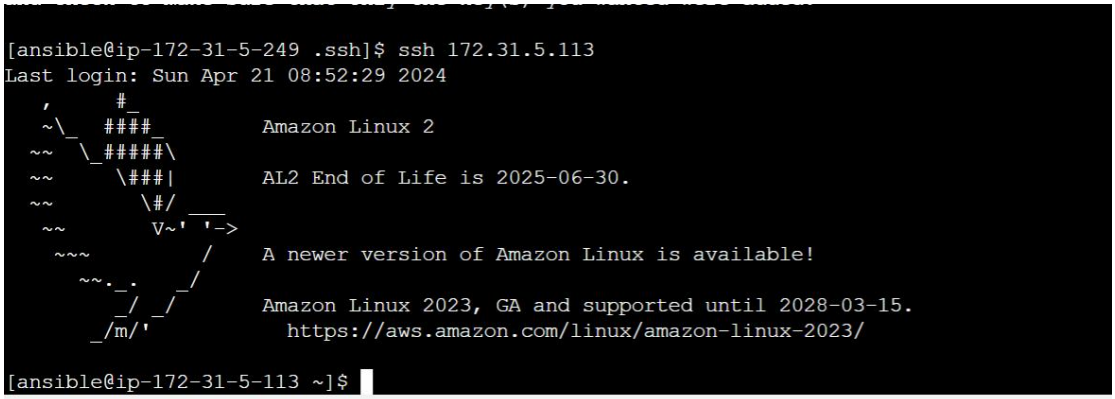
```
[ansible@ip-172-31-5-113 ~]$ ls -a
.  ..  .bash_logout  .bash_profile  .bashrc  .ssh
```

```
[ansible@ip-172-31-5-249 .ssh]$ ssh-copy-id ansible@172.31.5.113
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ansible@172.31.5.113's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'ansible@172.31.5.113'"
and check to make sure that only the key(s) you wanted were added.
```

6. key has been successfully added, now we can go into node machine through server only by ssh-ing
into it’s private ip



i-03c26553f4fe38a35 (Ansible-Server)

PublicIPs: 65.2.79.47 PrivateIPs: 172.31.5.249