

GROUP 6

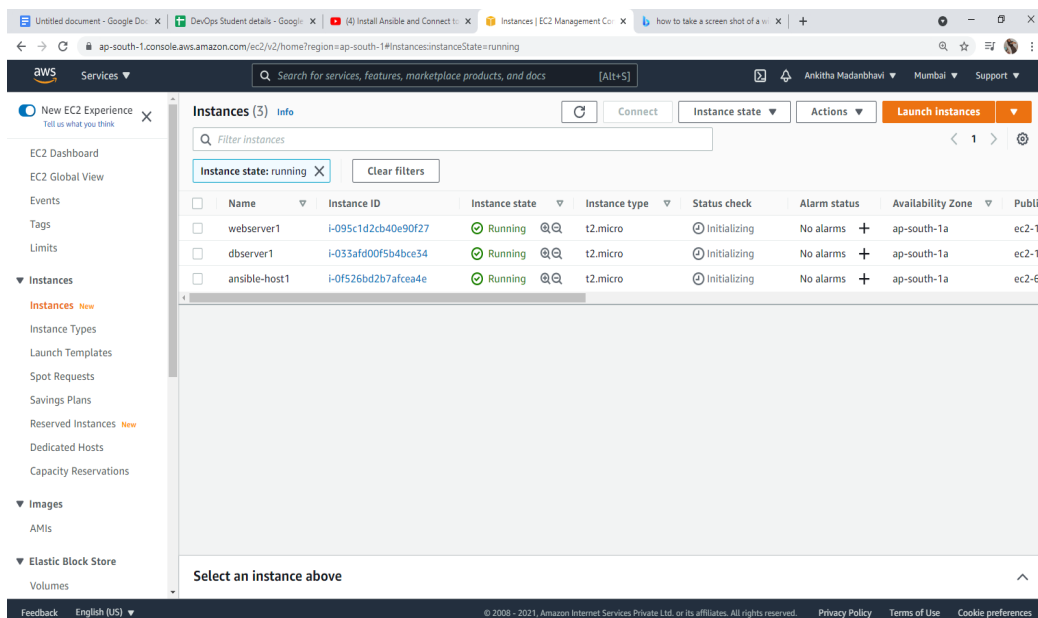
ASSIGNMENT - 3

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ADD USERS TO EC2 INSTANCES WITH SSH ACCESS - ANSIBLE

1. Launching instance Red Hat Enterprise Linux 8 (HMV) , SSD Volume type
---->> Ansible-host (controller).
2. Launching 2 instances of Amazon Linux AMI 2018.03..0 (HMV), SSD Volume type
---->>Remote hosts (Named as - webserver1 , dbserver1) .



3. Inside ansible-host terminal:



4. Ansible installation in host server:

```

ansible 2.9.9
config file = /etc/ansible/ansible.cfg
configured module search path = ['/home/ec2-user/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
ansible python module location = /usr/lib/python3.6/site-packages/ansible
executable location = /usr/bin/ansible
python version = 3.6.8 (default, Dec 5 2019, 15:45:45) [GCC 8.3.1 20191121 (Red Hat 8.3.1-5)]

```

5. Webservers and dbobservers present in ansible-host file:

Webservers and their ip address:

```

# 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

```

dbobservers and their ip address:

```

## [dbobservers]
##
## db01.intranet.mydomain.net
## db02.intranet.mydomain.net
## 10.25.1.56
## 10.25.1.57

```

6. Creating user and password in webserver remote host:

```

Complete!
[ec2-user@ip-172-31-46-14 ~]$ sudo su -
[root@ip-172-31-46-14 ~]$ useradd -d /home/awstgremoteweb -m awstgremoteweb
[root@ip-172-31-46-14 ~]$ password awstgremoteweb
-bash: password: command not found
[root@ip-172-31-46-14 ~]$ passwd awstgremoteweb
Changing password for user awstgremoteweb.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-46-14 ~]$

```

7. Creating directory for ssh , changing permissions for the directory , creating ssh key inside the directory:

```

total 0
[awstgremoteweb@ip-172-31-46-14 ~]$ mkdir .ssh
[awstgremoteweb@ip-172-31-46-14 ~]$ chmod 700 .ssh/
[awstgremoteweb@ip-172-31-46-14 ~]$ cd .ssh
[awstgremoteweb@ip-172-31-46-14 .ssh]$ ll
total 0
[awstgremoteweb@ip-172-31-46-14 .ssh]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/awstgremoteweb/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/awstgremoteweb/.ssh/id_rsa.
Your public key has been saved in /home/awstgremoteweb/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:uw8Lm1sLZKRgIFtCX1GbxrBDQak88mtNhd100r17aU awstgremoteweb@ip-172-31-46-1
4.ap-south-1.compute.internal
The key's randomart image is:
+-----[RSA 3072]-----+
| .B***+ |
| +.==.. |
| oo o= |
| + o B . |
| X @ S . . |
| o o . o o |
| = o o E |
| . o . + |
| . o . |
+-----[SHA256]-----+
[awstgremoteweb@ip-172-31-46-14 .ssh]$

```

8. Public Key:

```

-rw-r--r--. 1 awstgremoteweb awstgremoteweb 2655 Sep 23 14:16 id_rsa
-rw-r--r--. 1 awstgremoteweb awstgremoteweb 612 Sep 23 14:16 id_rsa.pub
[awstgremoteweb@ip-172-31-46-14 .ssh]$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCC00iS/YJvKqKXK1bxieH2mrvNDHBCn0F+0rxDKT5
pjsqQ/+sFlieYp51R2IP6ItAPgKQcOAmwCNBuPR0hgTwEA6IHSneVswwoLoo3407o+URLuv+dBSQ46Y
iCXNciVLfugpJfyV9iG1SLvzbQnVKhndVtKKarexPM6DO/9L6XKSFS8phCN9cnLvcaW+2Alp38Tb5F9
18ida6ywI76cqmTri+ha4S2wahBy9AUBdgPFLyljnwCISNaQLdMHY/SwZgwyoO6uSiNt4v0EOI1rg4dm
SAeKny8u+ms+1ZYNlu53SVExSer4LfcsnrTn6ZuT4YazvFpgXP2r+VI40E/acrzMwLBwowGn2emUmrhS
G12GePC03RhY0911z8ungAgcTIBCacwIOWv2608f1QY45VY4oQcYg8krko/Bcj7aZ3GHNwOvAB53G
dxEKvz25GFwYHmMfKufskiesBcnFL5KfHb1XchDVhybDdE+VdVU0Ke/SWfd2YoLuWY8= awstgre
moteweb@ip-172-31-46-14.ap-south-1.compute.internal
[awstgremoteweb@ip-172-31-46-14 .ssh]$

```


13. Connecting a webserver remote host from ansible host using ansible command:

```
[awstechguide@ip-172-31-92-43 ansible]$ ansible webserver -m ping
[WARNING]: Platform linux on host 54.85.15.91 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter
could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
54.85.15.91 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
```

14. Connecting dbserver remote host from ansible host using ansible command:

```
[awstechguide@ip-172-31-92-43 ansible]$ ansible dbserver -m ping
[WARNING]: Platform linux on host 54.227.115.31 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter
could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
54.227.115.31 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
```

NOTE - Following the same steps as mentioned above for webserver remote host for dbserver remote host to establish the connection.

SUMMARY :

1. Installed Ansible.
2. Launched Ansible host instance(red hat linux)(Controller).
3. Launched two remote instances (webserver , dbserver).
4. Created ssh connection between these multiple hosts.