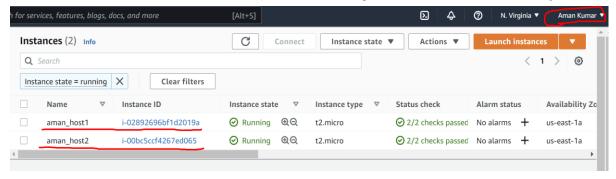
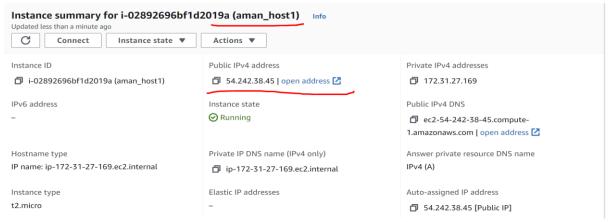
ANSIBLE CONFIGURATION

12 – 05 – 22 NGAD - ASSIGNMENT AMAN KUMAR R19112026

- ANSIBLE HOSTS CREATION (AWS INSTANCES)



○ DETAILS OF **AMAN_HOST1**



O DETAILS OF AMAN_HOST2

Instance summary for i-00bc5ccf4267ed065 (aman_host2) Info Connect Instance state ▼ Actions ▼ Updated less than a minute ago		
Instance ID	Public IPv4 address ☐ 54.160.192.94 open address ☐ Instance state ⊙ Running	Private IPv4 addresses 1 172.31.21.108 Public IPv4 DNS 1 ec2-54-160-192-94.compute- 1.amazonaws.com open address
Hostname type IP name: ip-172-31-21-108.ec2.internal Instance type t2.micro	Private IP DNS name (IPv4 only) ip-172-31-21-108.ec2.internal Elastic IP addresses -	Answer private resource DNS name IPv4 (A) Auto-assigned IP address 54.160.192.94 [Public IP]

ANSIBLE CONTROL NODE CONFIGURATION (LOCAL MACHINE)

```
    Terminal ▼

                         aman@theRogue: ~
                                                   Q
                                                               /etc/ansible/hosts
  GNU nano 4.8
# 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
# If you have multiple hosts following a pattern you can specify
#www[001:006].example.com
# Ex 3: A collection of database servers in the 'dbservers' group
#[dbservers]
#db01.intranet.mydomain.net
#db02.intranet.mydomain.net
#10.25.1.56
#10.25.1.57
# Here's another example of host ranges, this time there are no
# leading 0s:
#db-[99:101]-node.example.com
[ngad_pucsd]
aman host1 ansible host=54.242.38.45
aman host2 ansible host=54.160.192.94
[all:vars]
ansible python interpreter=/usr/bin/python3
```

CONTROL NODE SPECIFICATIONS

```
    Terminal ▼

                         aman@theRogue: ~
                                                  Q ≡
aman@theRogue:~$ sudo nano /etc/ansible/hosts
aman@theRogue:~$ ansible-inventory --list -y
all:
  children:
    ngad_pucsd:
      hosts:
        aman_host1:
          ansible_host: 54.242.38.45
          ansible_python_interpreter: /usr/bin/python3
          ansible host: 54.160.192.94
          ansible python interpreter: /usr/bin/python3
    ungrouped: {}
aman@theRogue:~$
```

ANSIBLE MODULES

1. PING

2. COMMAND MODULE - UPTIME COMMAND

```
aman@theRogue: ~ Q ≡ - □ ⊗

aman@theRogue: ~$ ansible all -m command -a uptime -u ec2-user
aman_host2 | CHANGED | rc=0 >>
13:28:38 up 1:09, 2 users, load average: 0.47, 0.15, 0.05
aman_host1 | CHANGED | rc=0 >>
13:28:40 up 1:09, 2 users, load average: 0.00, 0.00, 0.00
aman@theRogue: ~$ ■
```

3. COMMAND MODULE - HOSTNAME COMMAND

```
Terminal ▼

aman@theRogue: ~ Q ≡ - □ ⊗

aman@theRogue: ~$ ansible all -m command -a "hostname" -u ec2-user

aman_host2 | CHANGED | rc=0 >>

ip-172-31-21-108.ec2.internal

aman_host1 | CHANGED | rc=0 >>

ip-172-31-27-169.ec2.internal

aman@theRogue: ~$

aman@theRogue: ~$
```

4. SHELL MODULE - LS COMMAND

```
    Terminal ▼

                         aman@theRogue: ~
aman@theRogue:~$ ansible all -m shell -a "ls -l /" -u ec2-user
aman_host1 | CHANGED | rc=0 >>
total 16
lrwxrwxrwx
             1 root root
                            7 Apr 28 19:53 bin -> usr/bin
            4 root root 4096 May 12 12:45 boot
dr-xr-xr-x
drwxr-xr-x 15 root root 2900 May 12 12:19 dev
           80 root root 8192 May 12 12:45 etc
drwxr-xr-x
            3 root root
                           22 May 12 12:19 home
drwxr-xr-x
            1 root root
                            7 Apr 28 19:53 lib -> usr/lib
lrwxrwxrwx
                            9 Apr 28 19:53 lib64 -> usr/lib64
            1 root root
lrwxrwxrwx
                           6 Apr 28 19:53 local
drwxr-xr-x
             2 root root
                                      2019 media
drwxr-xr-x
             2 root root
                           6 Арг
drwxr-xr-x
             2 root root
                           6 Арг
                                     2019 mnt
            4 root root
                           27 Apr 28 19:54 opt
drwxr-xr-x
dr-xr-xr-x 158 root root
                           0 May 12 12:19 proc
           3 root root 103 May 12 12:19 root
dr-xr-x---
drwxr-xr-x
           29 root root 980 May 12 12:45 run
            1 root root
                            8 Apr 28 19:53 sbin -> usr/sbin
lrwxrwxrwx
             2 root root
                                     2019 srv
drwxr-xr-x
                            6 Арг
dr-xr-xr-x
           13 root root
                            0 May 12 12:19 sys
           10 root root 252 May 12 13:40 tmp
drwxrwxrwt
                         155 Apr 28 19:53 usr
           13 root root
drwxr-xr-x
drwxr-xr-x 19 root root 269 May 12 12:19 var
aman host2 | CHANGED | rc=0 >>
total 16
lrwxrwxrwx
                            7 Apr 28 19:53 bin -> usr/bin
             1 root root
            4 root root 4096 May 12 12:47 boot
dr-xr-xr-x
            15 root root 2900 May 12 12:19 dev
drwxr-xr-x
           80 root root 8192 May 12 12:47 etc
drwxr-xr-x
                           22 May 12 12:19 home
drwxr-xr-x
            3 root root
             1 root root
                            7 Apr 28 19:53 lib -> usr/lib
lrwxrwxrwx
                            9 Apr 28 19:53 lib64 -> usr/lib64
             1 root root
lrwxrwxrwx
                            6 Apr 28 19:53 local
drwxr-xr-x
             2 root root
                           6 Apr 9
                                      2019 media
drwxr-xr-x
             2 root root
             2 root root
                            6 Арг
                                      2019 mnt
drwxr-xr-x
```

5. YUM COMMAND - INSTALL GIT

```
    Terminal ▼

                         aman@theRogue: ~
aman@theRogue:~$ ansible ngad pucsd -m yum -a "name=git state=prese
nt" --become -u ec2-user
[WARNING]: Platform linux on host aman_host1 is using the discovere
interpreter at /usr/bin/python, but future installation of another
Python
interpreter could change this. See https://docs.ansible.com/ansible
/2.9/referen
ce_appendices/interpreter_discovery.html for more information.
aman_host1 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    "changed": true,
    "changes": {
        "installed": [
            "git"
    results": [
        "Loaded plugins: extras_suggestions, langpacks, priorities,
 update-motd\nResolving Dependencies\n--> Running transaction check
n---> Package git.x86_64 0:2.32.0-1.amzn2.0.1 will be installedn-
-> Processing Dependency: perl-Git = 2.32.0-1.amzn2.0.1 for package
: git-2.32.0-1.amzn2.0.1.x86_64\n--> Processing Dependency: git-cor
e-doc = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_
64\n--> Processing Dependency: git-core = 2.32.0-1.amzn2.0.1 for pa
ckage: git-2.32.0-1.amzn2.0.1.x86_64\n--> Processing Dependency: em
acs-filesystem \Rightarrow 27.1 for package: git-2.32.0-1.amzn2.0.1.x86_64\n
--> Processing Dependency: perl(Term::ReadKey) for package: git-2.3
2.0-1.amzn2.0.1.x86_64\n--> Processing Dependency: perl(Git::I18N)
for package: git-2.32.0-1.amzn2.0.1.x86_64\n--> Processing Dependen
cy: perl(Git) for package: git-2.32.0-1.amzn2.0.1.x86_64\n--> Runni
ng transaction check\n---> Package emacs-filesystem.noarch 1:27.2-4
.amzn2.0.1 will be installed\n---> Package git-core.x86_64 0:2.32.0
-1.amzn2.0.1 will be installed\n---> Package git-core-doc.noarch 0:
2.32.0-1.amzn2.0.1 will be installed\n---> Package perl-Git.noarch
```