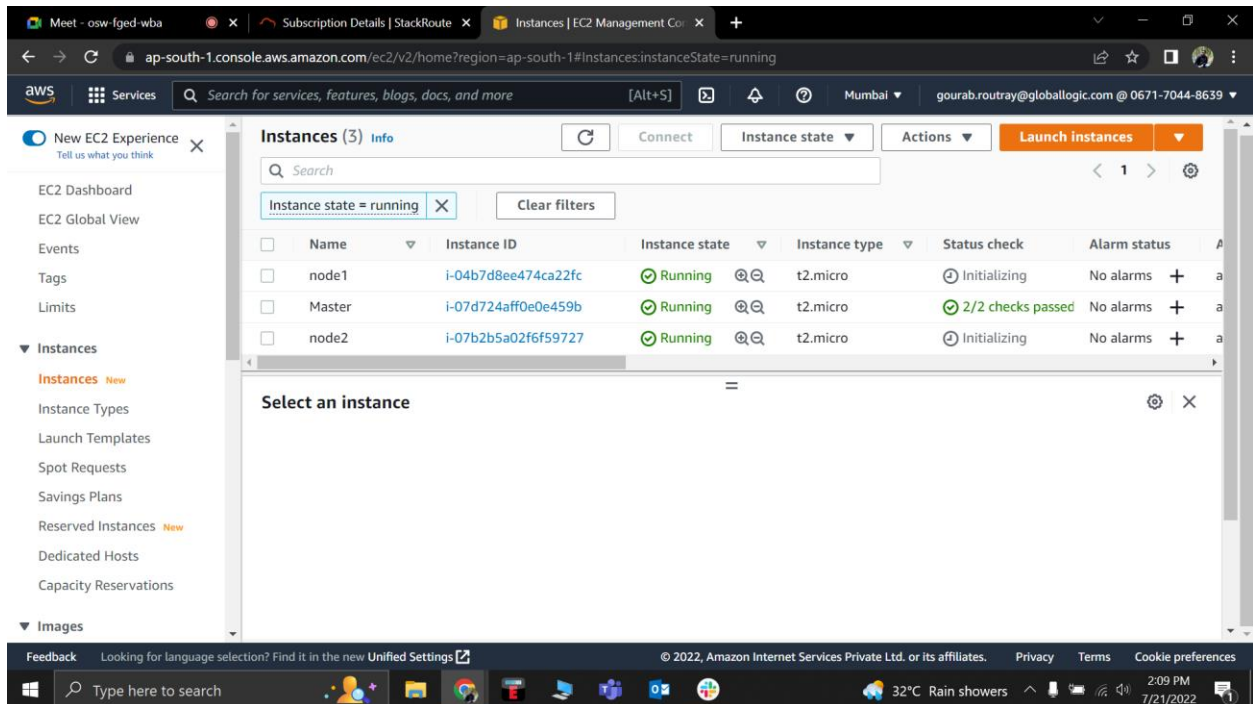
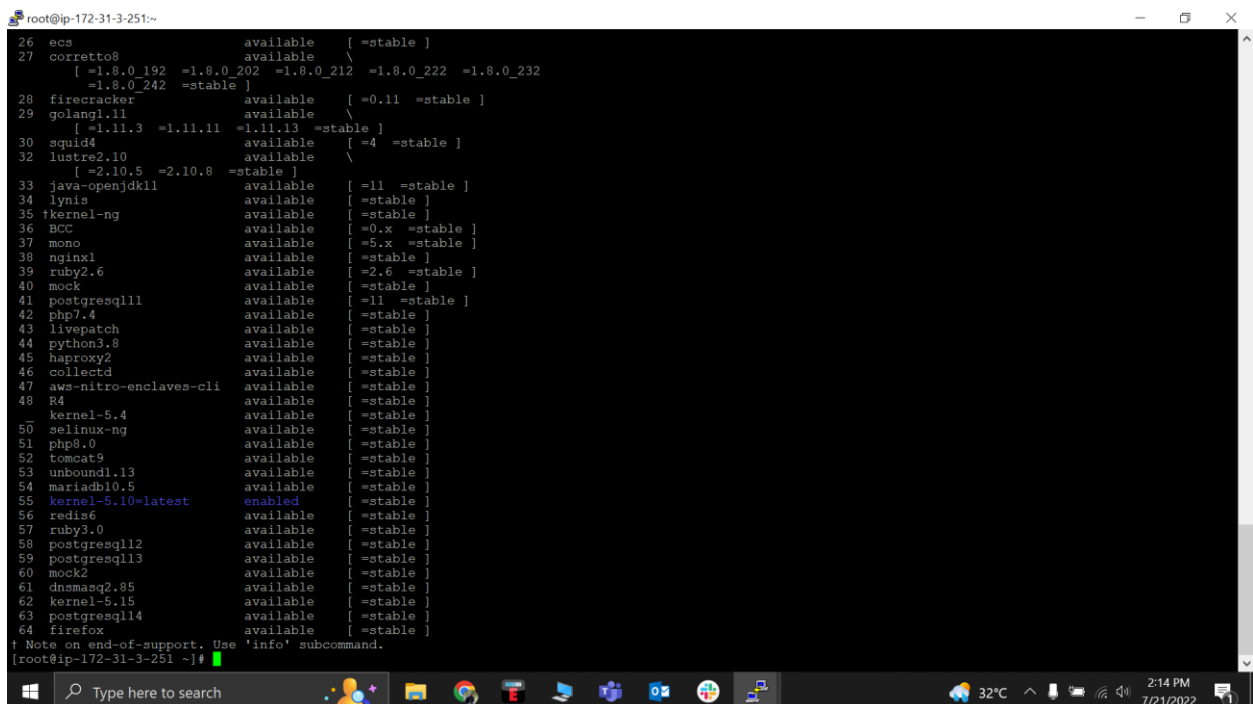


ASSIGNMENT-9

EC-2 INSTANCE CONFIGURED



ANSIBLE INSTALLED ON MASTER



ASSIGNMENT-9

GENERATED KEY FOR ACCESING EC-2 INSTANCE

```
root@ip-172-31-3-251:~# ssh
SHA256:dmv+rML1KI3cEGJ153VCsw5Pe8jmziZ1AUdOKi/q6k root@server
The key's randomart image is:
+---[RSA 2048]-----+
|  .+..+ |
|  oB.+ |
|  .+*+ |
| oo.+G+ = |
|+.+o= B S |
|  .*.o.+ |
|  .B.+o. |
|  * *o.. |
|Eo . .ooo |
+---[SHA256]-----+
[root@ip-172-31-3-251 .ssh]# ls
authorized_keys  id_rsa  id_rsa.pub
[root@ip-172-31-3-251 .ssh]# cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAmilrJlYgrerChHgNGogJlpr9KOHJgwOepmSAllb6JUkwlxA
GWRQ8dOPGtlt8bXRQonWQ6HP/1MbEa2W0hWB3H5iqiZcRIMdUwkmXcloaOoy/MWZ
ebcp5rgKzEaqKrNsVFoufURDJ7Obhzt8HA+mDlTlnmN9RiaMcBpYEFgnUHQ62Rmc
dHRTJ1S2bIX+waH0UmHFnqmZa04N3zSBjXOBQd4Dr9eSb1Ut6gDo65Ig+DfT2zE
Nq6f961k31fjqlW9WCQJUp5WCx4Ka+VtuXq1whNWifl12+0P51RL0eQFH7rh+qZ
pIQowill1E450lcc15fyWHAPKxTo3H0PDe3QjDnAQBAoIBAlz8vVxSWMUgZay
4CSXDezaoJbY2+zzHUIVagFAZ4+ckwx2AEC+BpjYirt4XhmShrj9SBk6GIL6IDc
gf0T1G/0wXWnYRw27/6FffLWQ5cdjM22aGznDNfFdnem4r8Y6DKw+8LBjeYQIz
dfylrv/EXk016GPe9+ZW+5dcb5gnLKIMitQ/XSsn0bFR+yu1j3er4rG9idXQNE
4hVsXAdqzFU0ie/yo/VkziHjP/pfHeBzAe95MVhiw2SQVofilH1OTrdAL3gm493n
kuUnNcfi86+CLjuXXB3ggYIKWB/Katz42nM70IB6TWO+y2rJhMSGpN60NvXUkCqC
rOM6X10CgYEAYkt7ypeNiJZBQAc7/Bhz0HGsbGkHu+18JLvnwYL4m3KDsKQNWzH
+b011QQK5hDtmU06/DJ/hUFJk4Fke0V2K2GT2KsCnrcDZb36vWBQGejgYY5LSaGV
0R/NyuWxcBtDT4S1Xdd5qAZfZa331RpEDsBxaWwOKmsl/2abMej5MCgYEAxLA2
Mcwswb11Vt9e0b5ZVfocw02P6ses7IRNgrNpKEs1FW8d0sSsqfCaKypJbX/Yh
SFezm74ebXVjPv3uMkUCUctj+uZg+cmabwagkyjDO2YktBPHPq147hebfK0P
WeVJReQBAIX/s1aSlDOJF5iuxXBdmkAjet/c8CgYEAKuohpBwWZ3e2+6GMv6N
zXx977Je7c4j6Qz9PwrUPuWDXpatUMRQXpKJeuTzDBzpkw06VxATFaWab41ttj
CZ217YI+H88LmLh1N0wq5ek6pWCK6vV15yZet3Z08vuyyvw1OM+QrPhysFuDgOk+
xl99EuQcYUqlurpRIM+3xyeCgYAgitUitWxTjiaeyC/wODCQ1ILoEsFuOOPGeFoV
xna/IIBc+8ib5EnPkFjxbHjflWYIIVYJ6+BkHbpcYx+naRFP9JIVD5EbmNznLlrp
rfq5Sw6Swu/z+peLqhOApMLvZsgoMCbR2mf8P3JK+98G+7tdjgim9oIgiKW9N0X3
7q1K0QKbgQCXVpYPIzPhgc3P3wN8ss+NkmCRaDU16dXunNF3RVD41CfokQcm
ovPhn42H4RN28YFvzhQ1rznHz4fPU+TG90+FnR1/Bh+lzM1/+P5n1bDMbxkXCz3h
Sk5BrzSMCnQhHLc54p3jUVOgoptWnWgNa2ELN8hxVR01ZKhtV+g==
-----END RSA PRIVATE KEY-----
[root@ip-172-31-3-251 .ssh]#
```

CHECKING IN TO OTHER NODES

```
root@ip-172-31-4-131:~# ssh
Authenticating with public key "imported-openssh-key"
┌───┴───┐
┌─┴─┐ Amazon Linux 2 AMI
└─┴─┘
https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-4-131 ~]$
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Jul 21 08:42:09 2022 from 49.37.43.52
┌───┴───┐
┌─┴─┐ Amazon Linux 2 AMI
└─┴─┘
https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-4-131 ~]$
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Jul 21 08:47:46 2022 from 49.37.43.52
┌───┴───┐
┌─┴─┐ Amazon Linux 2 AMI
└─┴─┘
https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-4-131 ~]$ hostnamectl set-hostname node1
-bash: hostnamectl: command not found
[ec2-user@ip-172-31-4-131 ~]$ hostnamectl set-hostname node1
-bash: hostnamectl: command not found
[ec2-user@ip-172-31-4-131 ~]$ sudo -i
[ec2-user@ip-172-31-4-131 ~]$ hostnamectl set-hostname node1
Unknown operation set-
[ec2-user@ip-172-31-4-131 ~]$ hostnamectl set-hostname node1
[ec2-user@ip-172-31-4-131 ~]$
```

ASSIGNMENT-9

ADDED IP'S AND TESTED PING MODULE

```
root@node1:~#
zXx9p77Je7C+J6Qz9PwrRUpWDXpatUMROXpKJeuTzDBzipkw6VxATFeWab4l1ttj
C2217YI+H881mLh1NQwq5ek6pWCK6vV15yZet3208vuyyvw1QM+QrPhysFuDgOk+
xlg9EuQcYUqLurpRIM+3xyeCgYAgITuItWxJiaeyC/wODCQIILoEaFuOOPGefoV
xna/IIbc+8ib5EnPkFjxbHjfrOYIIVYJ6+BkHbpcYx+naRFP9JIVD5EbmNznLrp
rfq5Sw6Swu/z+peLqhoApMLvZsgoMcbR2mF8P3JK+98G+7tdjgim9oIgiKW9N0X3
7qIKOQK8gQXVpXYPIzpjHgc3P3wN8ss+NkmcRaDUL6dXuNNF3RVD41CfokQcm
ovPhn42H4RN28YFvZhqIrnHz4FPJ+TG90+FnR1/Bh+1zW1/+P5n1bDMbxxKXcz3h
SK5BrzSMCnQHPLc54psJfUVOgoptWnWgGNa2ELN8hXVK81ZKHtV+g==
-----END RSA PRIVATE KEY-----
[root@ip-172-31-3-251 .ssh]# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAwMmJiCt6sKEeA0aiAmKwMv0o4cmDA56mZIDWVvolSTDxEAZatDx048a3W3xtDFCidZDoc/+UxsRrZbSFYHcfmKqJlXHuX1TCSZdzWho6jL8xZ15tynmu
ArMRqogs2xUW159REmns5uH03wcD6YOVPWeY3lGKwwJulgQWCdQdDp1GZx0dG0nVJlshf7BodbSYc+eqZlRtG3dmxIGNc4FB3gOv17luJS3gAOjrkID4N9PbMQ1Dp/3qKTch+OotblZAILTKn1YLHgr5W2se
qLCE1Yh/WXb7Q/mJEVR5AUfuuH6pmlRCjAFW0S3k7WgKJJ/JxYcA+Q6kg7cfQ8MV7d root@server
[root@ip-172-31-3-251 .ssh]# ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAwMmJiCt6sKEeA0aiAmKwMv0o4cmDA56mZIDWVvolSTDxEAZatDx048a3W3xtDFCidZDoc/+UxsRrZbSFYHcfmKq
JlXHuX1TCSZdzWho6jL8xZ15tynmuArMRqogs2xUW159REmns5uH03wcD6YOVPWeY3lGKwwJulgQWCdQdDp1GZx0dG0nVJlshf7BodbSYc+eqZlRtG3dmxIGNc4FB3gOv17luJS3gAOjrkID4N9PbMQ1Dp/3q
KTch+OotblZAILTKn1YLHgr5W2seqLCE1Yh/WXb7Q/mJEVR5AUfuuH6pmlRCjAFW0S3k7WgKJJ/JxYcA+Q6kg7cfQ8MV7d root@server
-bash: ssh-rsa: command not found
[root@ip-172-31-3-251 .ssh]# ^C
[root@ip-172-31-3-251 .ssh]# ^C
[root@ip-172-31-3-251 .ssh]# ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAwMmJiCt6sKEeA0aiAmKwMv0o4cmDA56mZIDWVvolSTDxEAZatDx048a3W3xtDFCidZDoc/+UxsRrZbSFYHcfmKq
JlXHuX1TCSZdzWho6jL8xZ15tynmuArMRqogs2xUW159REmns5uH03wcD6YOVPWeY3lGKwwJulgQWCdQdDp1GZx0dG0nVJlshf7BodbSYc+eqZlRtG3dmxIGNc4FB3gOv17luJS3gAOjrkID4N9PbMQ1Dp/3q
KTch+OotblZAILTKn1YLHgr5W2seqLCE1Yh/WXb7Q/mJEVR5AUfuuH6pmlRCjAFW0S3k7WgKJJ/JxYcA+Q6kg7cfQ8MV7d root@server
-bash: ssh-rsa: command not found
[root@ip-172-31-3-251 .ssh]# ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAwMmJiCt6sKEeA0aiAmKwMv0o4cmDA56mZIDWVvolSTDxEAZatDx048a3W3xtDFCidZDoc/+UxsRrZbSFYHcfmKq
JlXHuX1TCSZdzWho6jL8xZ15tynmuArMRqogs2xUW159REmns5uH03wcD6YOVPWeY3lGKwwJulgQWCdQdDp1GZx0dG0nVJlshf7BodbSYc+eqZlRtG3dmxIGNc4FB3gOv17luJS3gAOjrkID4N9PbMQ1Dp/3q
KTch+OotblZAILTKn1YLHgr5W2seqLCE1Yh/WXb7Q/mJEVR5AUfuuH6pmlRCjAFW0S3k7WgKJJ/JxYcA+Q6kg7cfQ8MV7d root@server
-bash: ssh-rsa: command not found
[root@ip-172-31-3-251 .ssh]# ^C
[root@ip-172-31-3-251 .ssh]# ^C
[root@ip-172-31-3-251 .ssh]# ssh root@172.31.4.131
The authenticity of host '172.31.4.131 (172.31.4.131)' can't be established.
ECDSA key fingerprint is SHA256:zx26kmi2n7BWSNqGTGVE3Sv/h2n5UHC8TCvC25V7q0E.
ECDSA key fingerprint is MD5:3b:3ce5:al:25:93:08:e9:7d:b3:8f:98:32:2a:de:ica.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.4.131' (ECDSA) to the list of known hosts.

  ____      _
 / ___|    / \   _ __| |__
| |  | |  / _ \ / _ \| |__
| |  | | / ___ \| |__
|_|  |_|/_/ \_\_\_|_|

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[root@node1 ~]#
```

```
root@server/etc/ansible
}
"changed": false,
"ping": "pong"
}
^C [ERROR]: User interrupted execution
[root@server ansible]# ssh root@172.31.15.40/
ssh: Could not resolve hostname 172.31.15.40/: Name or service not known
[root@server ansible]# ssh root@172.31.15.40
The authenticity of host '172.31.15.40 (172.31.15.40)' can't be established.
ECDSA key fingerprint is SHA256:pt51V/c1RTKpzZFD0Y5yCjG6FFUHeK5oFtcRrXKVRaZU.
ECDSA key fingerprint is MD5:69:b2:e9:10:a3:dc:02:dc:02:65:15:e8:2d:69:6e:5f:70:4c.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.15.40' (ECDSA) to the list of known hosts.

  ____      _
 / ___|    / \   _ __| |__
| |  | |  / _ \ / _ \| |__
| |  | | / ___ \| |__
|_|  |_|/_/ \_\_\_|_|

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[root@node2 ~]# exit
logout
Connection to 172.31.15.40 closed.
[root@server ansible]# ansible all -m ping
[WARNING]: Platform linux on host 172.31.4.131 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.
172.31.4.131 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
[WARNING]: Platform linux on host 172.31.15.40 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.
172.31.15.40 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
[root@server ansible]#
```

ASSIGNMENT-9

PLAYBOOK EXECUTION

```
root@server:/etc/ansible/work
[root@server ansible]# cd work
[root@server work]# ls -la
.  ..  index.html  play.yaml
[root@server work]# cat play.yaml
---
- name: install apache
  hosts: all
  tasks:
    - name: install httpd
      yum:
        name: httpd
        state: present
    - name: Enable and start service
      service:
        name: httpd
        enabled: yes
        state: started
    - name: copy file
      copy:
        src: /Work/index.html
        dest: /var/www/html
        remote_src: true
[root@server work]# vi play.yaml
[root@server work]# vi play.yaml
[root@server work]# ansible-playbook -C play.yaml

PLAY [install apache] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.4.131 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.
ok: [172.31.4.131]
[WARNING]: Platform linux on host 172.31.15.40 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.
ok: [172.31.15.40]

TASK [install httpd] *****
ok: [172.31.15.40]
ok: [172.31.4.131]

TASK [Enable and start service] *****
ok: [172.31.4.131]
ok: [172.31.15.40]
```

