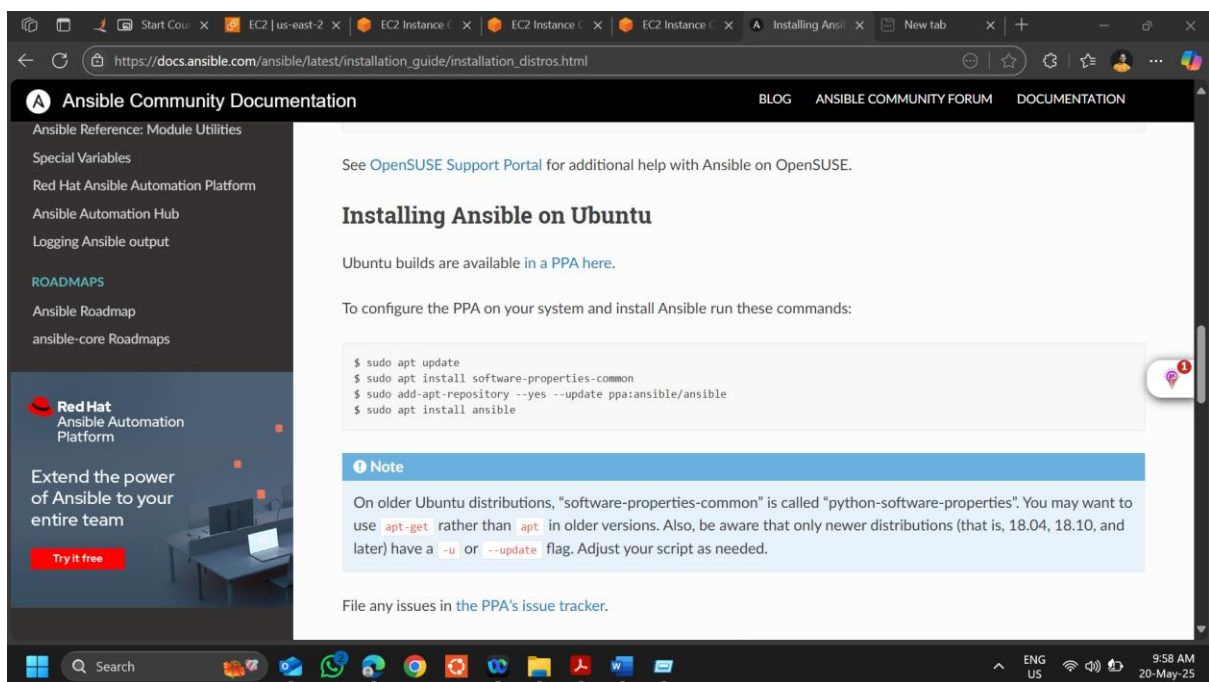
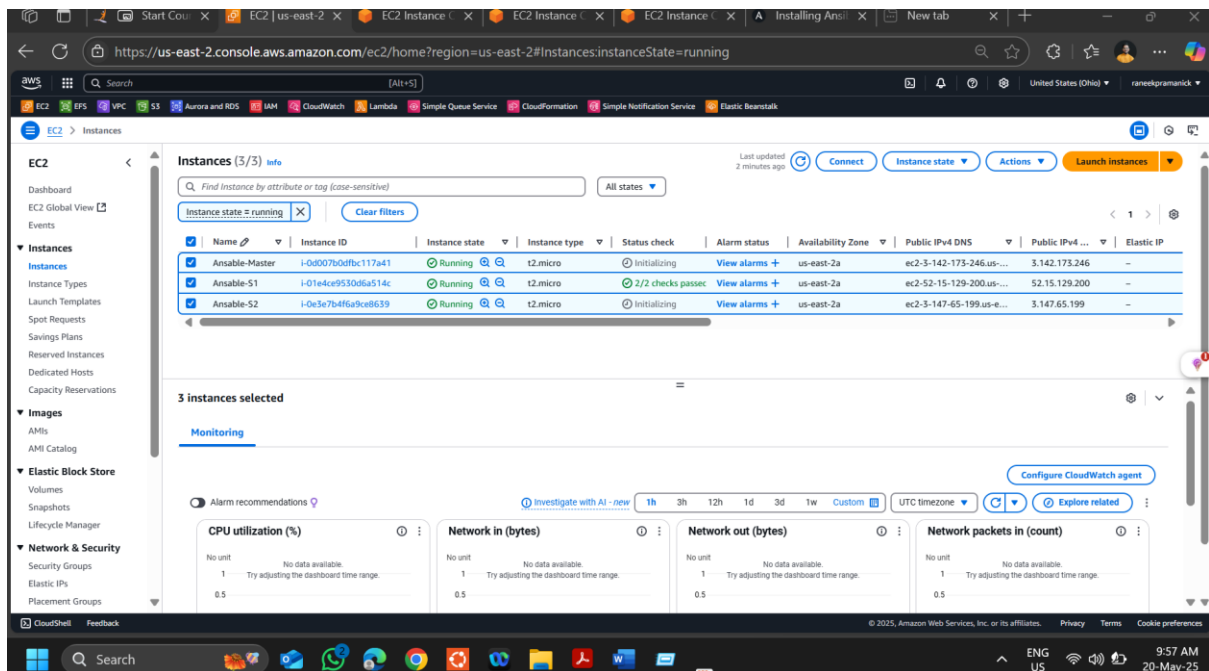
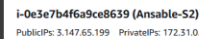


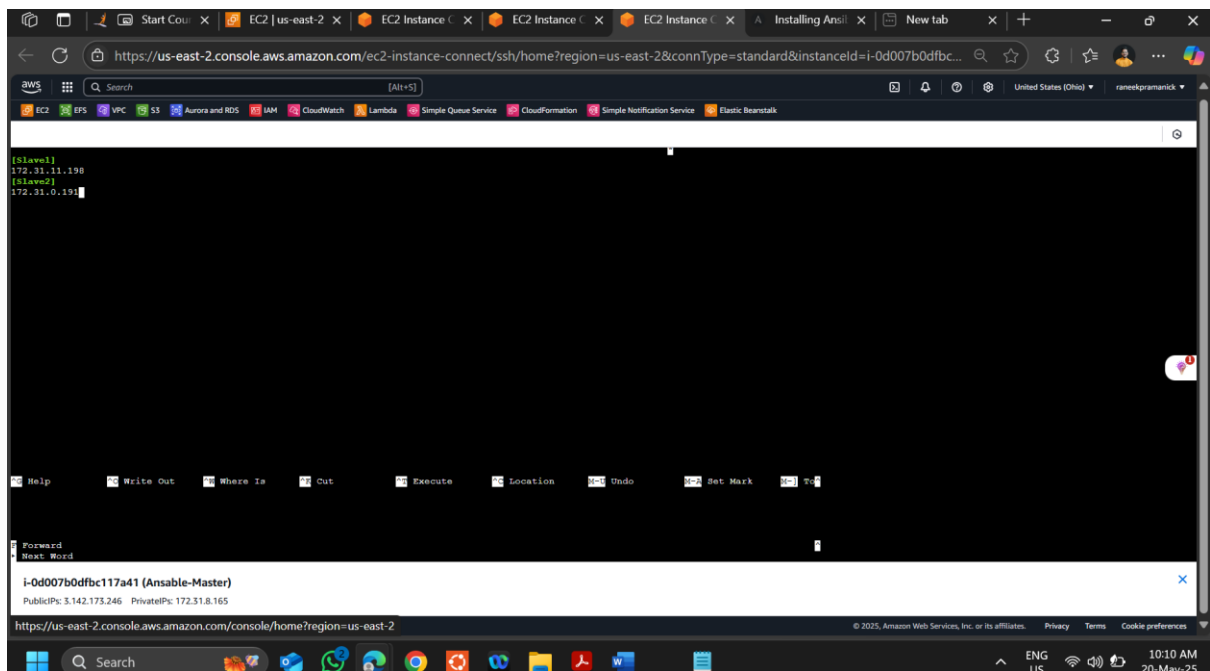
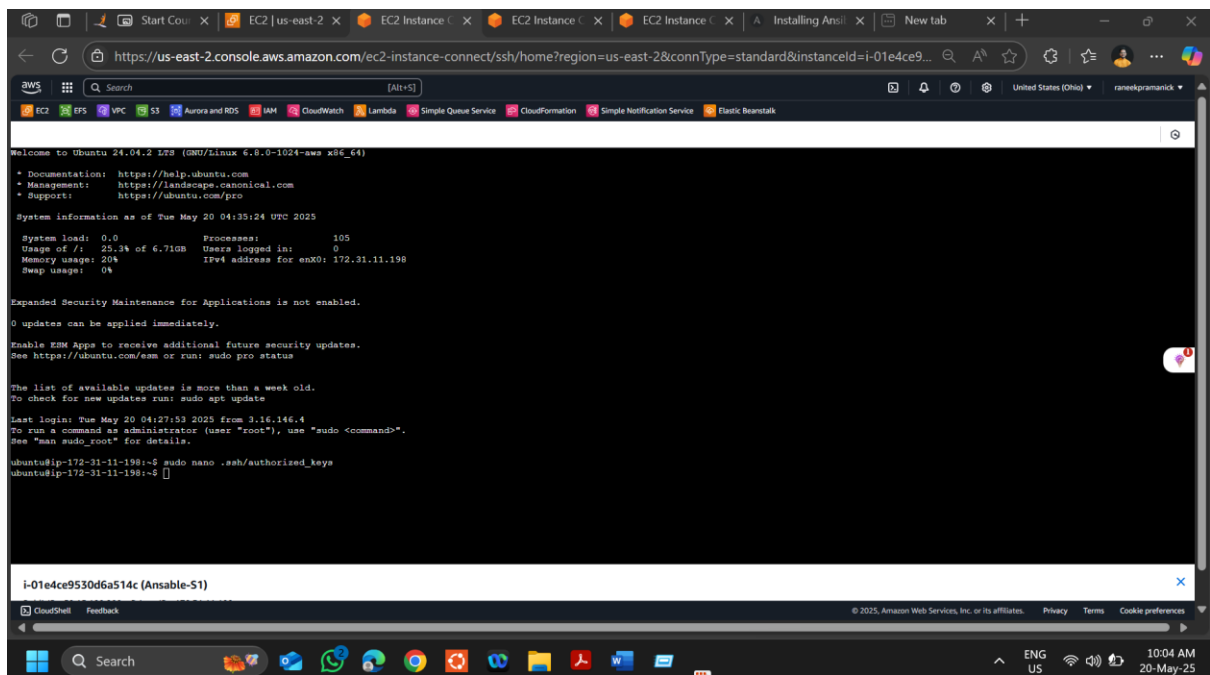
Tasks To Be Performed:

1. Create 2 Ansible roles
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role
3. Above should be implemented using different Ansible roles



Install Ansible in Master node using these code





```
Start Cou... | EC2 | us-east-2 | EC2 Instance | EC2 Instance | EC2 Instance | Installing Ans... | New tab | +
https://us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-2&connType=standard&instanceId=i-0d007b0dfbc...
AWS | Search | [Alt+S] | United States (Ohio) | raneekpranarick
EC2 | EFS | VPC | S3 | Aurora and RDS | IAM | CloudWatch | Lambda | Simple Queue Service | CloudFormation | Simple Notification Service | Elastic Beanstalk

The key's randomart image is:
+-----[RSA 3072]-----+
| . . . . . |
| o . o . o |
| o * + . o . |
| . X + . o . . |
| o B + o o . . . |
| . + . + . o . |
| o . + . . |
| +-----[SHA256]-----+

ubuntu@ip-172-31-8-165:~$ cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGD5W9OG96Lq55Ttuq+uQ30ID9+eJlYwFD9bf1UggAH91j4tC0DPPgU+Moxgr2aapPqRtYwkeyQ6XNwQ0TYRkw78cd1wFob5vFUA73b7Zb0w7t3gneblgjdudFuxM0wWalheVvPLXjNpOjJP4f51QARLQACWBussebl/7
y2g3o4w2jyL22X700k77b747qWhe+FB9Hugtcgdl1fWcrYmTtaseayfZmY/29dAM0M0DQd2w2a5Q0g10/0UXvR4EWDf221/8m2a3Q0z1j9H0/Cu01y0tEaAaA/cu02/02P4W317gRB8P40GSA0mDevrSBK0mg12Wx4n04a4mF0U0EEXAS4R8FCVnmjg
Gyl1gR0K00K9YfWjv9j100c/ugrP200dfrZ0VfrP1101Yig0MBNGYR3q40R5510CAYEFRyyjWec0Ez7BjP4g3q04L1L747hWY0dULYE/0u1QwEaQ8N80KX9B71A= ubuntu@ip-172-31-8-165

ubuntu@ip-172-31-8-165:~$ sudo nano /etc/ansible/hosts
The authenticity of host '172.31.0.191 (172.31.0.191)' can't be established.
ED25519 key fingerprint is SHA256:WimWmRO0+upv0PmLw0m0H4gXKo/g48MLH0CaPndT0Y.
This key is not known by any other names.
The authenticity of host '172.31.11.198 (172.31.11.198)' can't be established.
ED25519 key fingerprint is SHA256:jcl59knF+WNWuFuialmP241oYgP0GKI56bH+cc01M.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Please type 'yes', 'no', or the fingerprint: yes
Please type 'yes', 'no', or the fingerprint: yes
[WARNING] Platform linux on host 172.31.11.198 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that
path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.11.198 ansible_host=172.31.11.198
{
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": false,
  "ping": "pong"
}

yes
[WARNING] Platform linux on host 172.31.0.191 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that path.

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```

```
Start Cou... | EC2 | us-east-2 | EC2 Instance | EC2 Instance | EC2 Instance | Installing Ans... | New tab | +
https://us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-2&connType=standard&instanceId=i-0d007b0dfbc...
AWS | Search | [Alt+S] | United States (Ohio) | raneekpranarick
EC2 | EFS | VPC | S3 | Aurora and RDS | IAM | CloudWatch | Lambda | Simple Queue Service | CloudFormation | Simple Notification Service | Elastic Beanstalk

The key's randomart image is:
+-----[RSA 3072]-----+
| . . . . . |
| o . o . o |
| o * + . o . |
| . X + . o . . |
| o B + o o . . . |
| . + . + . o . |
| o . + . . |
| +-----[SHA256]-----+

ubuntu@ip-172-31-8-165:~$ cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGD5W9OG96Lq55Ttuq+uQ30ID9+eJlYwFD9bf1UggAH91j4tC0DPPgU+Moxgr2aapPqRtYwkeyQ6XNwQ0TYRkw78cd1wFob5vFUA73b7Zb0w7t3gneblgjdudFuxM0wWalheVvPLXjNpOjJP4f51QARLQACWBussebl/7
y2g3o4w2jyL22X700k77b747qWhe+FB9Hugtcgdl1fWcrYmTtaseayfZmY/29dAM0M0DQd2w2a5Q0g10/0UXvR4EWDf221/8m2a3Q0z1j9H0/Cu01y0tEaAa/cu02/02P4W317gRB8P40GSA0mDevrSBK0mg12Wx4n04a4mF0U0EEXAS4R8FCVnmjg
Gyl1gR0K00K9YfWjv9j100c/ugrP200dfrZ0VfrP1101Yig0MBNGYR3q40R5510CAYEFRyyjWec0Ez7BjP4g3q04L1L747hWY0dULYE/0u1QwEaQ8N80KX9B71A= ubuntu@ip-172-31-8-165

ubuntu@ip-172-31-8-165:~$ sudo nano /etc/ansible/hosts
The authenticity of host '172.31.0.191 (172.31.0.191)' can't be established.
ED25519 key fingerprint is SHA256:WimWmRO0+upv0PmLw0m0H4gXKo/g48MLH0CaPndT0Y.
This key is not known by any other names.
The authenticity of host '172.31.11.198 (172.31.11.198)' can't be established.
ED25519 key fingerprint is SHA256:jcl59knF+WNWuFuialmP241oYgP0GKI56bH+cc01M.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Please type 'yes', 'no', or the fingerprint: yes
Please type 'yes', 'no', or the fingerprint: yes
[WARNING] Platform linux on host 172.31.11.198 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that
path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.11.198 ansible_host=172.31.11.198
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  "ansible_facts": {
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  },
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}

yes
[WARNING] Platform linux on host 172.31.0.191 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that path.
See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.0.191 ansible_host=172.31.0.191
{
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": false,
  "ping": "pong"
}

ubuntu@ip-172-31-8-165:~$ cd /etc/ansible
ubuntu@ip-172-31-8-165:/etc/ansible$ ls
ansible.cfg  hosts  roles
ubuntu@ip-172-31-8-165:/etc/ansible$ cd roles
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ ls
ansible-galaxy  init  apache_role
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ ansible-galaxy init apache_role
[WARNING] The file /etc/ansible/roles/init/ansible-galaxy is not writable by the user. This may cause issues when using the 'ansible-galaxy' command.
to see the full traceback, use -vvv
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ sudo ansible-galaxy init apache_role
- Role apache_role was created successfully
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ sudo ansible-galaxy init nginx_role
- Role nginx_role was created successfully
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ ls
ansible-galaxy  init  apache_role  nginx_role
ubuntu@ip-172-31-8-165:/etc/ansible/roles$ cd apache_role
ubuntu@ip-172-31-8-165:/etc/ansible/roles/apache_role$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
ubuntu@ip-172-31-8-165:/etc/ansible/roles/apache_role$ cd tasks
ubuntu@ip-172-31-8-165:/etc/ansible/roles/apache_role/tasks$ ls
main.yml
ubuntu@ip-172-31-8-165:/etc/ansible/roles/apache_role/tasks$ sudo nano main.yml
ubuntu@ip-172-31-8-165:/etc/ansible/roles/apache_role/tasks$

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```

Start C X EC2 | us-east-2 console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-2&connType=standard&instanceId=i-0d007b0dfbc... Installing A X yamll valid... JF Best YAML X +

```
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible$ ls
ansible.cfg hosts roles
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible$ cd roles
$ bash: cd: roles: No such file or directory
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible$ cd roles
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles$ ls
apache_role nginx_role
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles$ cd apache_role
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role$ ls
README.md defaults files handlers meta tasks templates tests vars
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role$ cd tasks
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role/tasks$ ls
install.yml main.yml
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role/tasks$ sudo nano main.yml
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role/tasks$ cd
ubuntu@ip-172-31-8-165:~$ ansible-playbook play.yml
ERROR! We were unable to read either the playbook or the task, these are the errors we got from each:
ERROR! SyntaxError: line 1 column 1 (char 0)
SyntaxError while loading YAML:
but found another document, expected a single document in the stream
line 1 column 1
in "unicode string", line 4, column 1
The error appears to be in '/etc/ansible/roles/apache_role/tasks/main.yml': line 4, column 1, but may
be elsewhere in the file depending on the exact syntax problem.
The offending line appears to be:

- tasks file for nginx_role

$ cd /etc/ansible/roles/apache_role/tasks$ sudo nano install.yml
$ cd /etc/ansible/roles/apache_role/tasks$ cd
ubuntu@ip-172-31-8-165:~$ cd /etc/ansible/roles/apache_role/tasks$ sudo nano install.yml
```

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Start Cour X EC2 | us-east-2 console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-2&connType=standard&instanceId=i-0d007b0d... Installing X yamll valid... Best YAML X My Course X +

```
GNU nano 7.2 install.yml
name: installing apache2
apt: name=apache2 state=latest
become: true
```

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