WEEKLY-2

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Q1->Configure a sample apache server using configuration management tool Ansible on your managehost

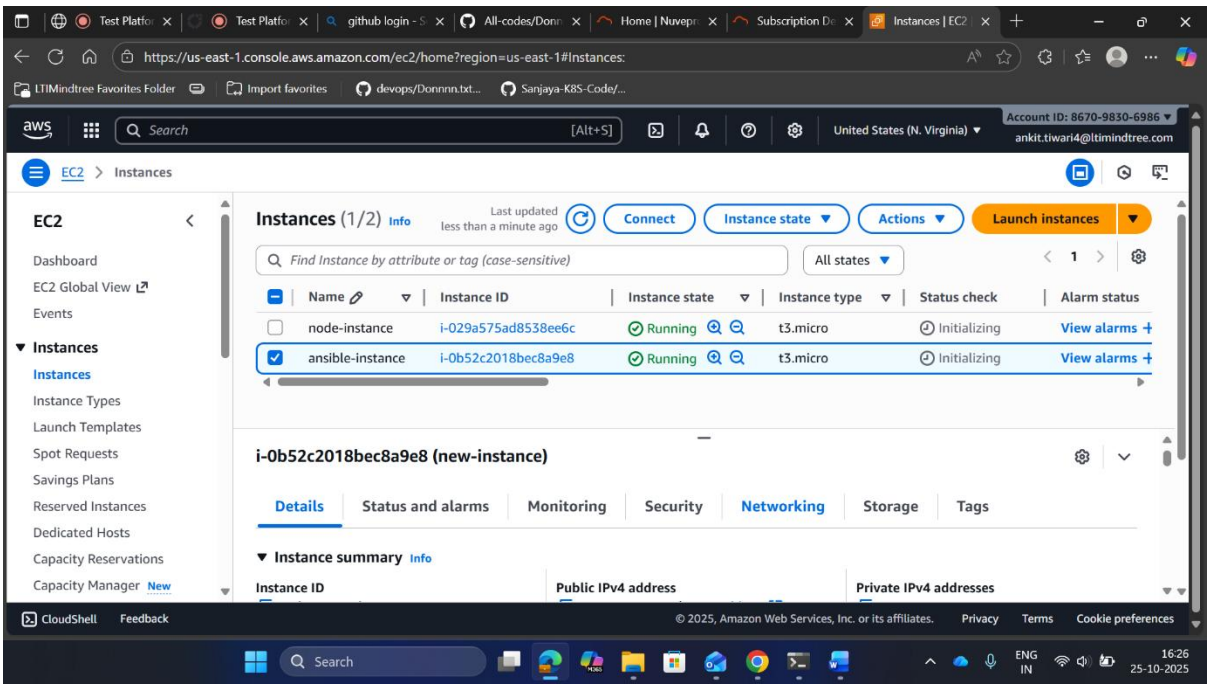
Ans->

Steps:-

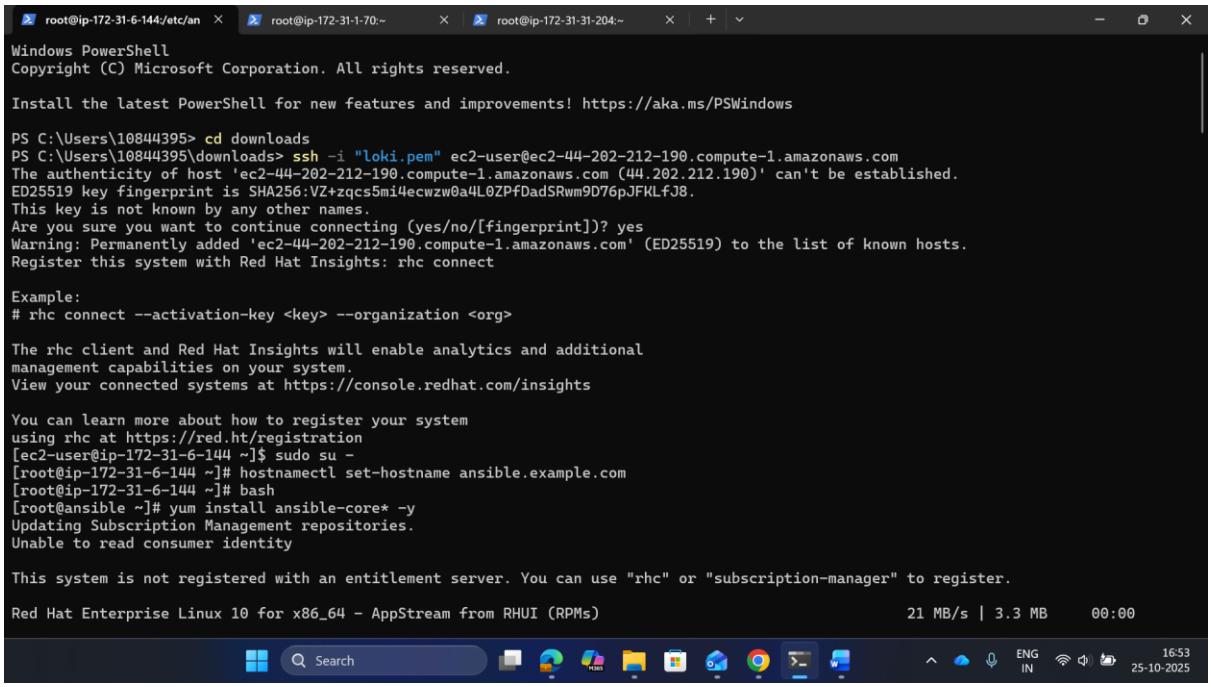
1> Create two instance one will be master -node and another will be worker -node

Specifications master-node(ansible-instance):
Redhat
Us-east-1
15g GP2

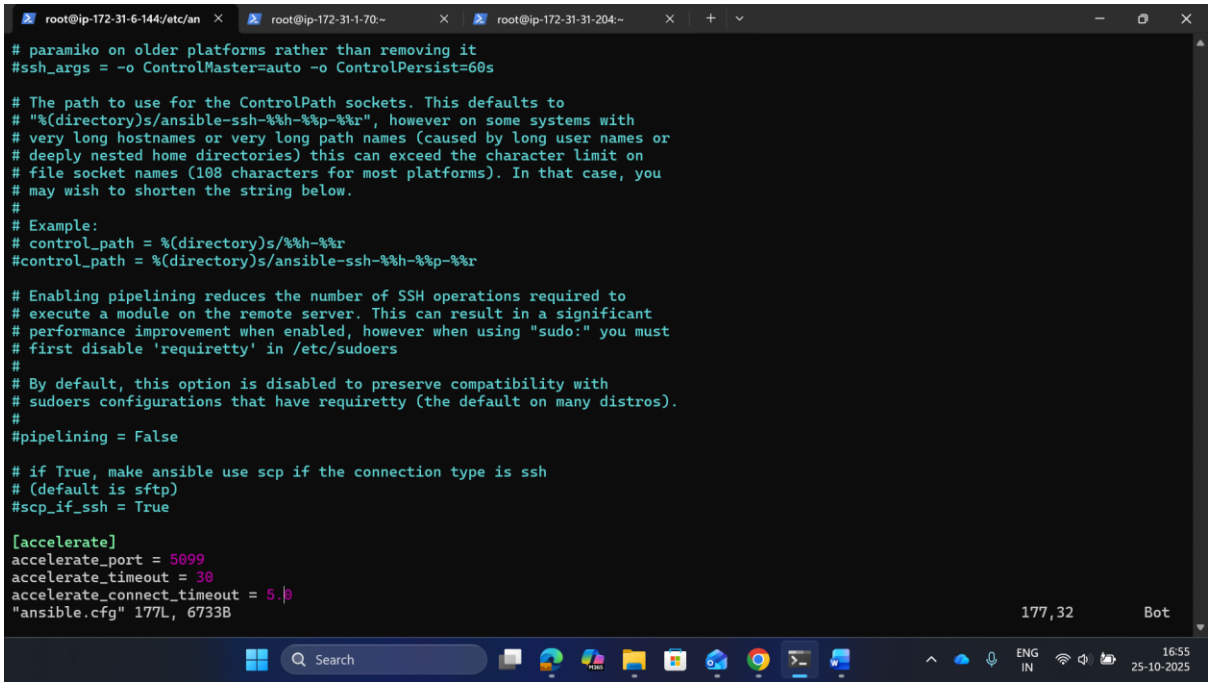
Specifications worker-node(node-instance):
Aws linux
Us-east-1
8g GP2



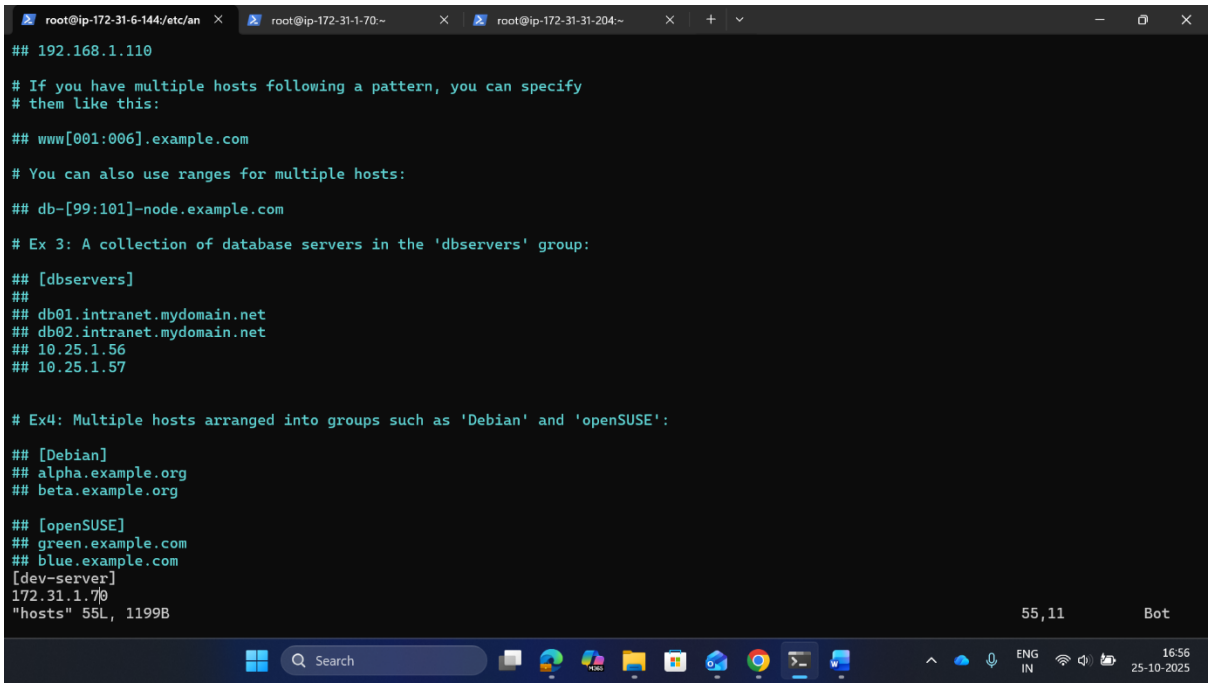
➔ Installing ansible on instance



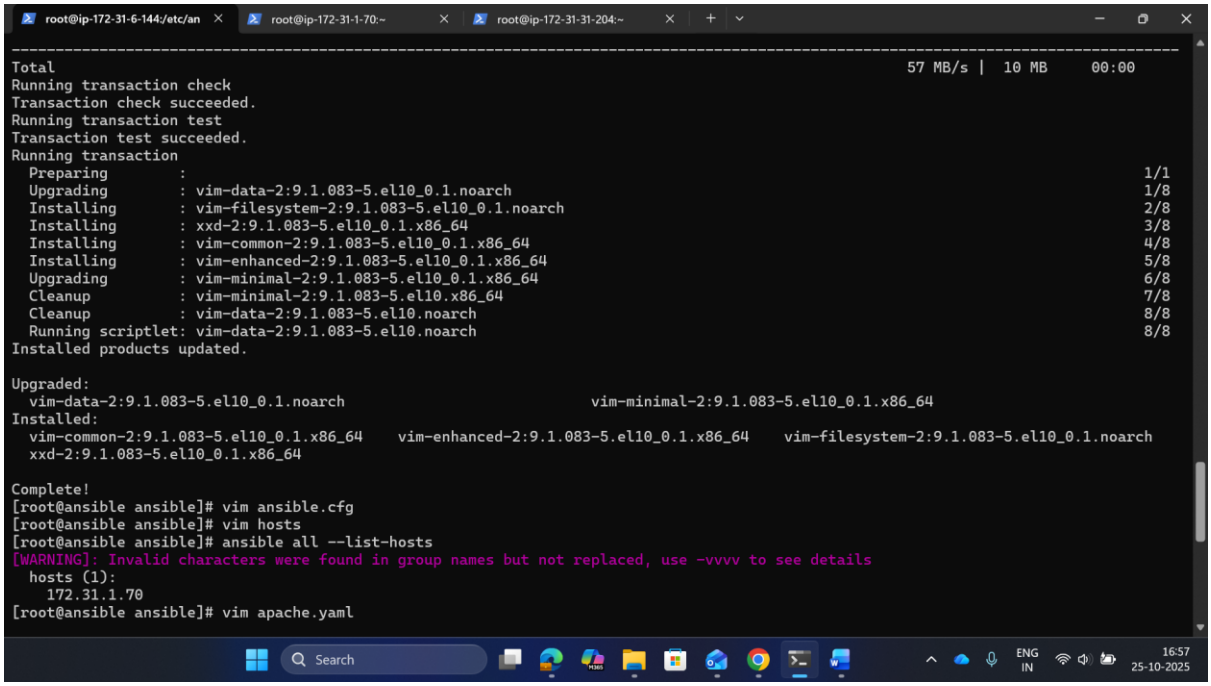
➔ Editing ansible.cfg file



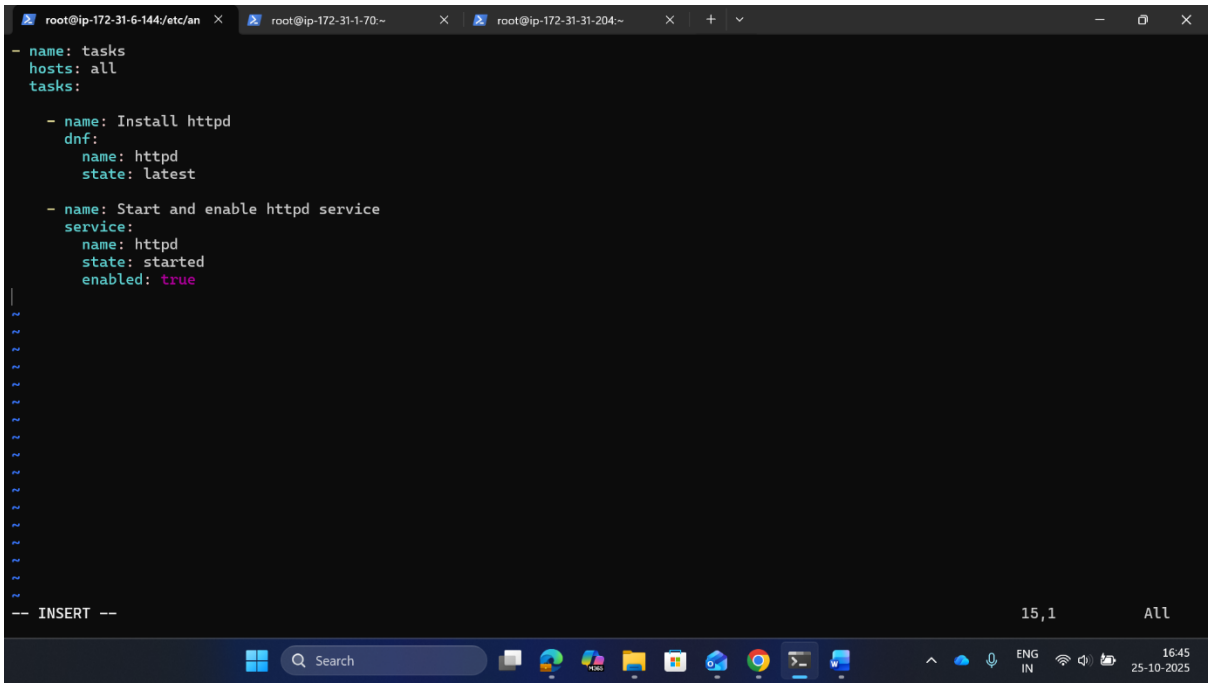
➔ Adding the worker machine on master-node



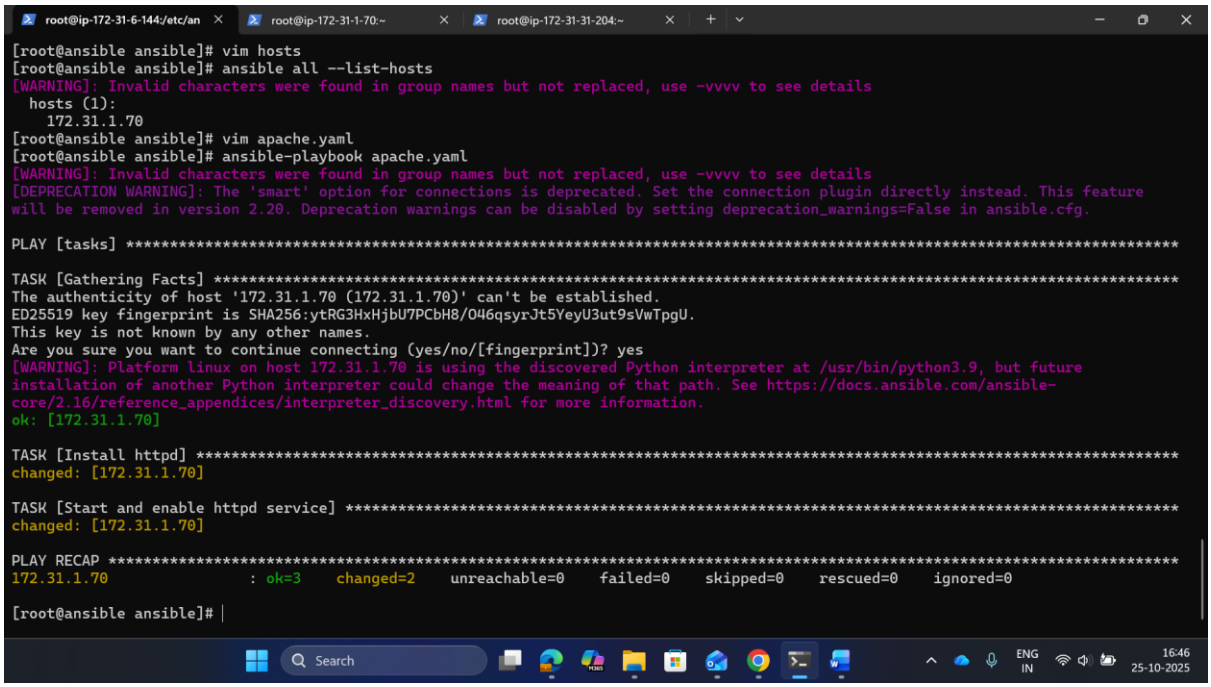
➔ Checking if the worker machine is reachable or not



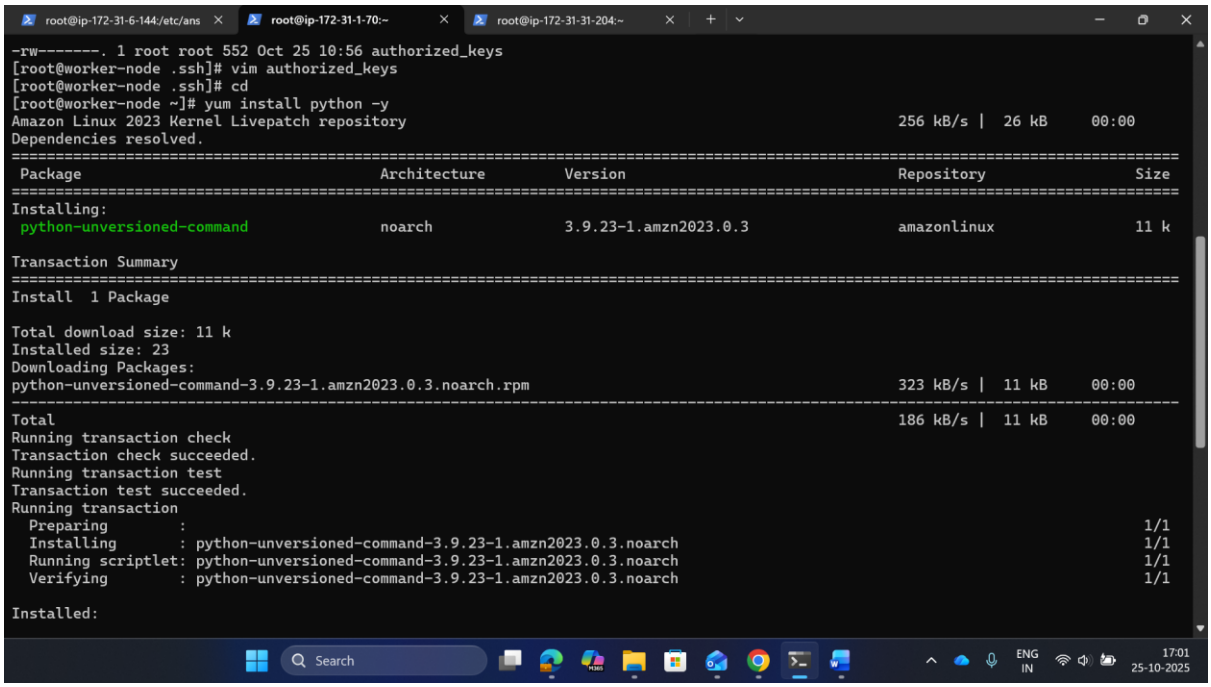
➔ Creating apache.yaml file for configuring



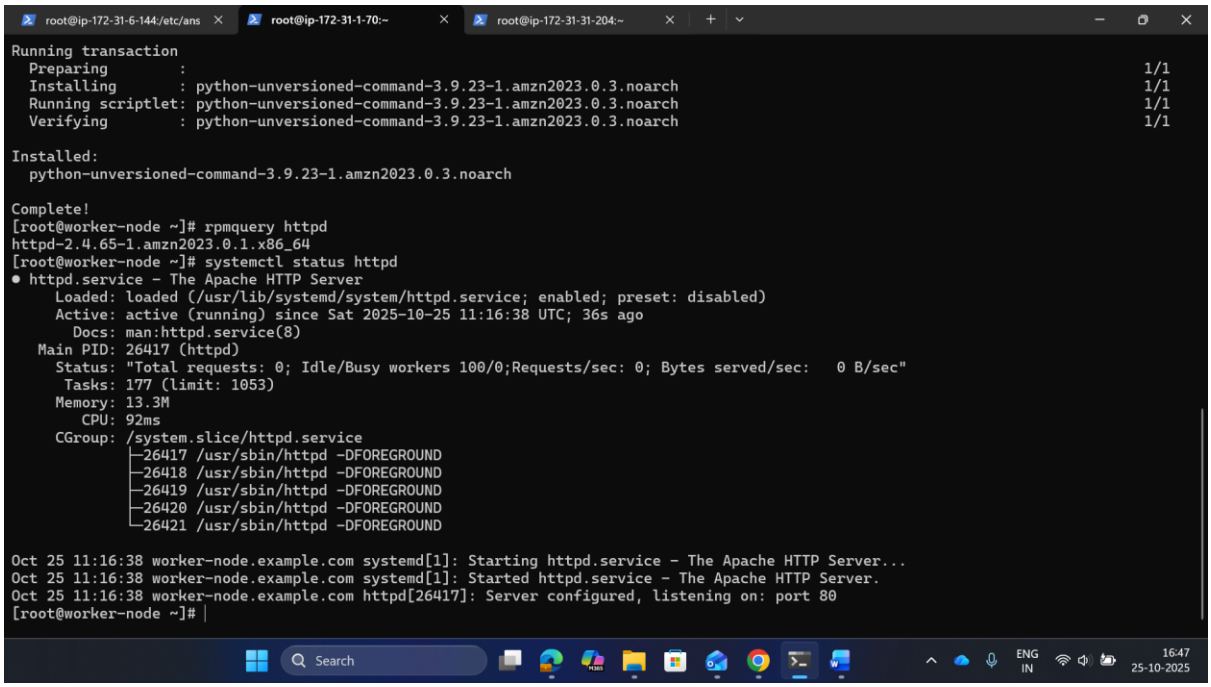
➔ executing the playbook



➔ installing python on node-machine



➔ successfully apache server is hosted and accessible on port: 80



Q2->Deploy a Ngnix application on your kubernetes cluster. and it should be available across of the cluster on port NO. 80.

Ans->

Steps:-

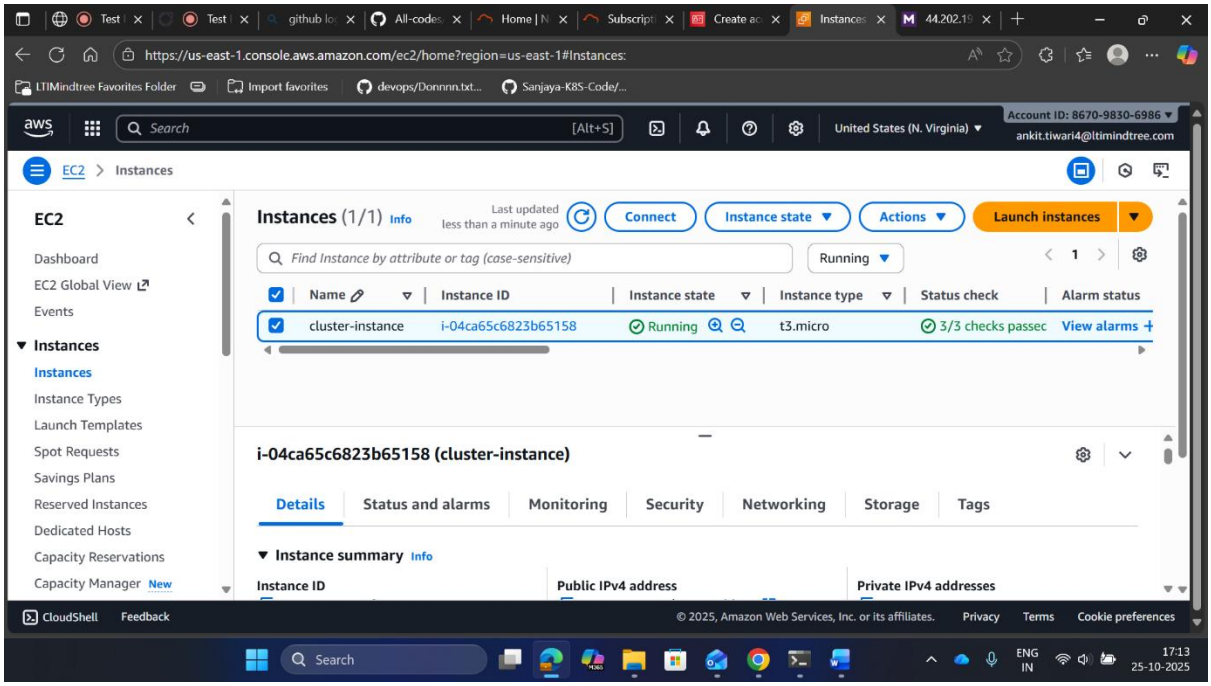
➔ create an ec2 instance (cluster-instance)

specifications:

aws-linux

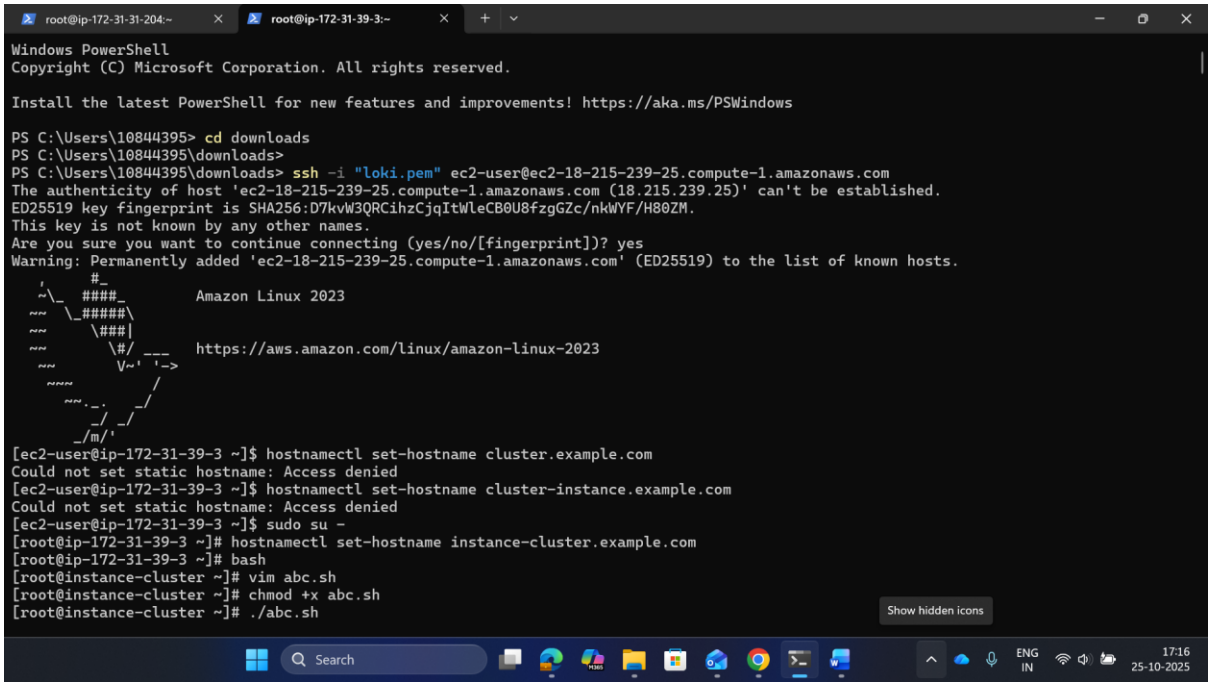
us-east-1a

12 GP2

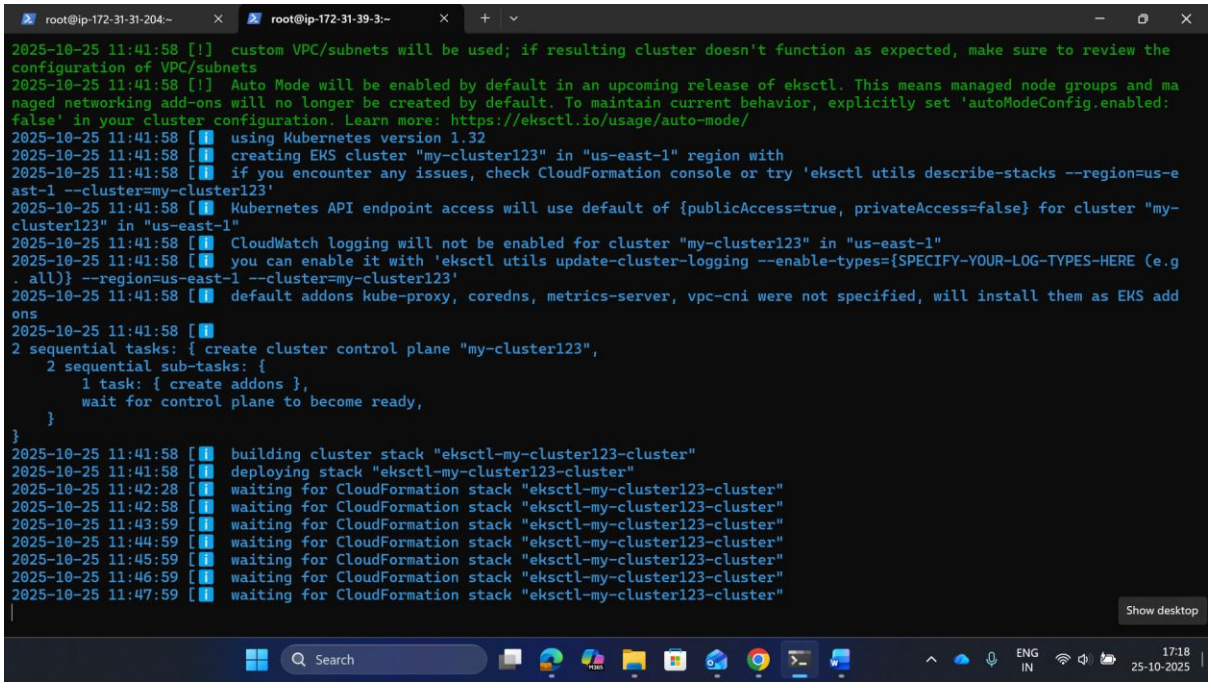


➔ Now connecting the instance with the terminal

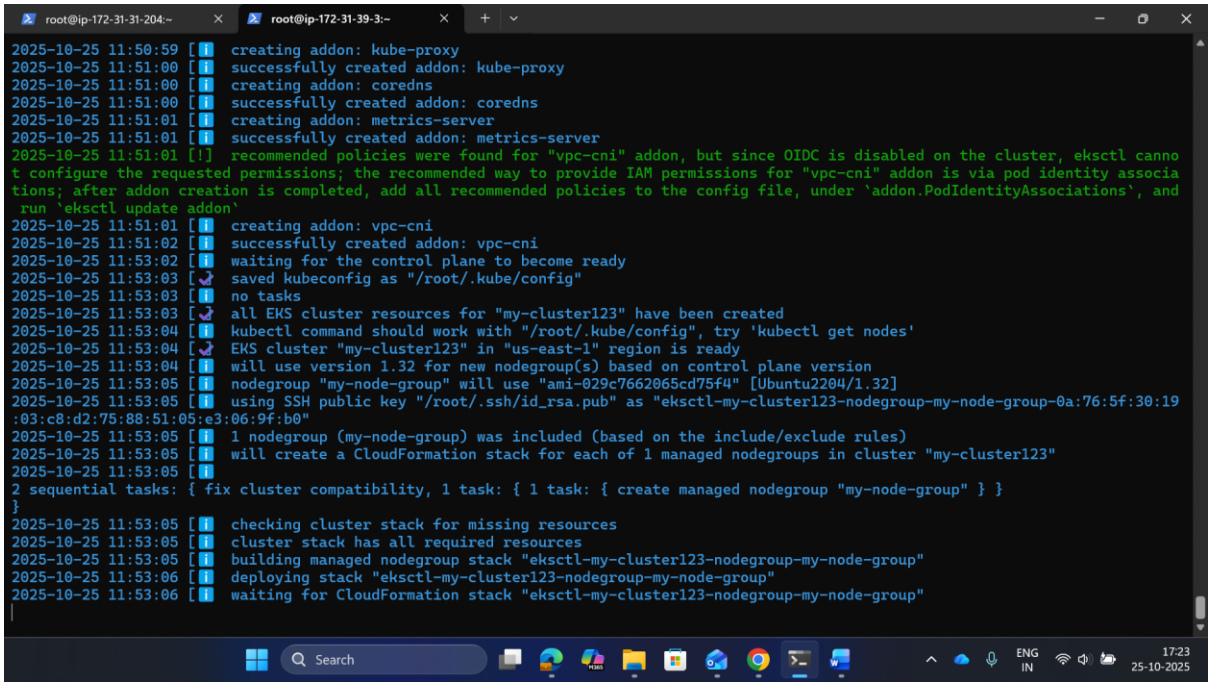
➔ Running the script to create the cluster and nodegroup for nginx hosting



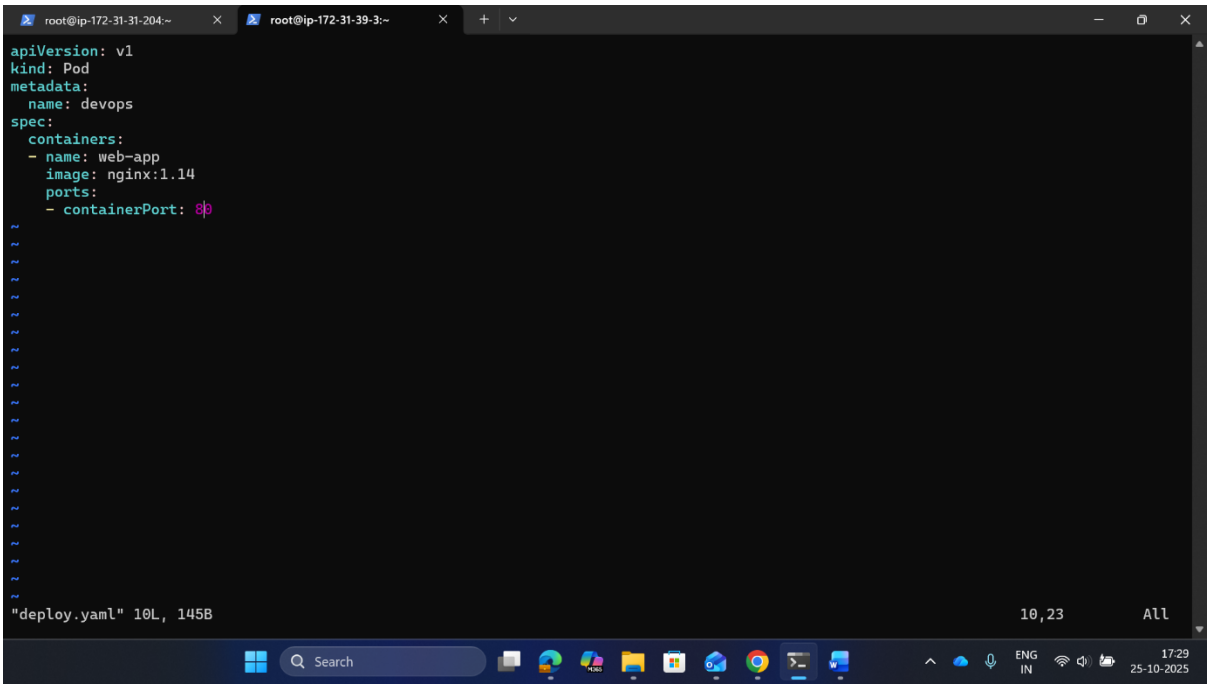
➔ Cluster is being created



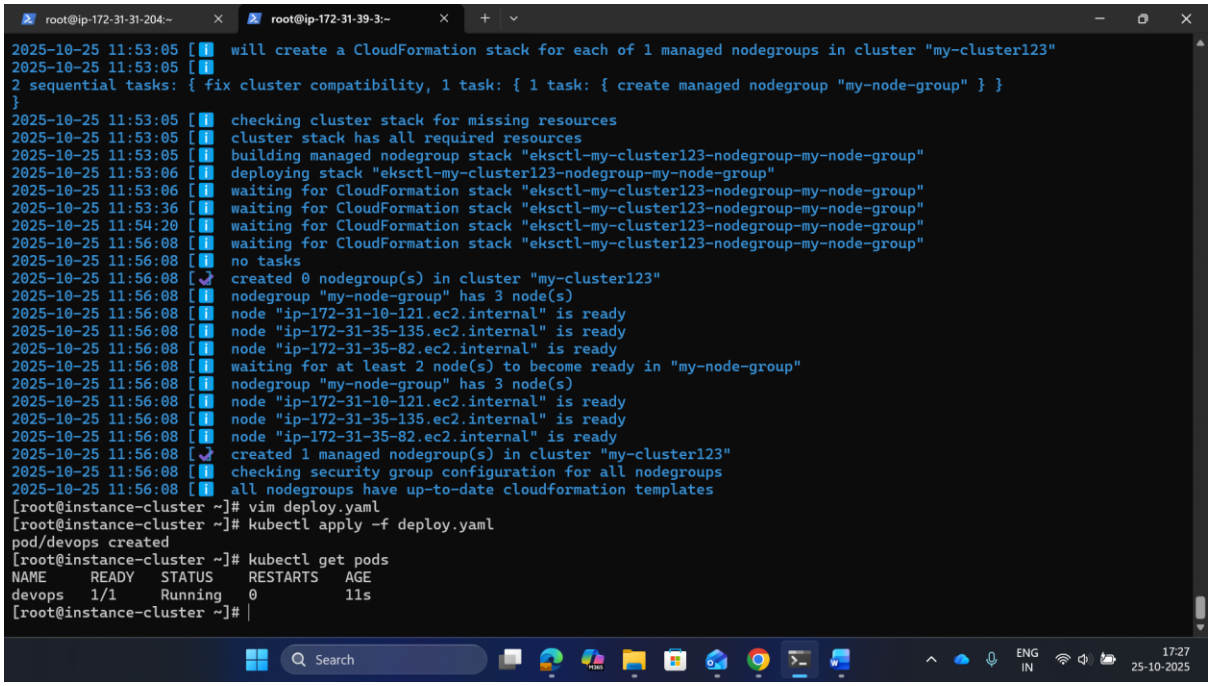
➔ Nodegroup is getting created



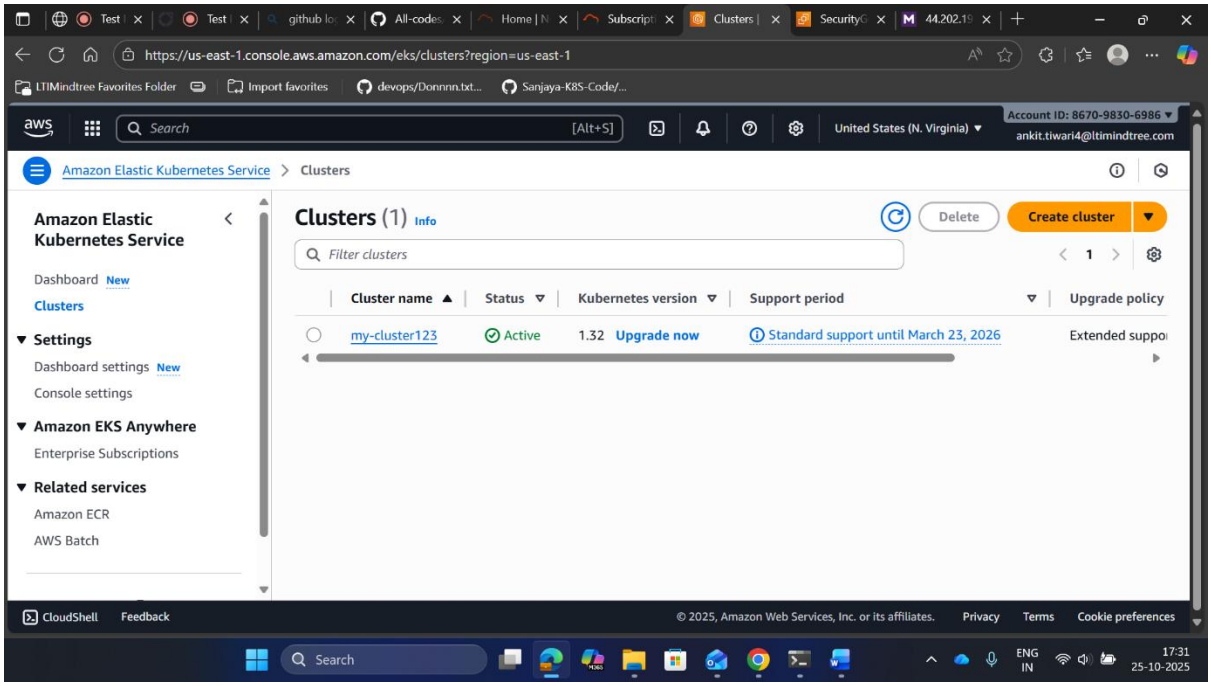
➔ Creating a deploy.yaml file to run on nginx application



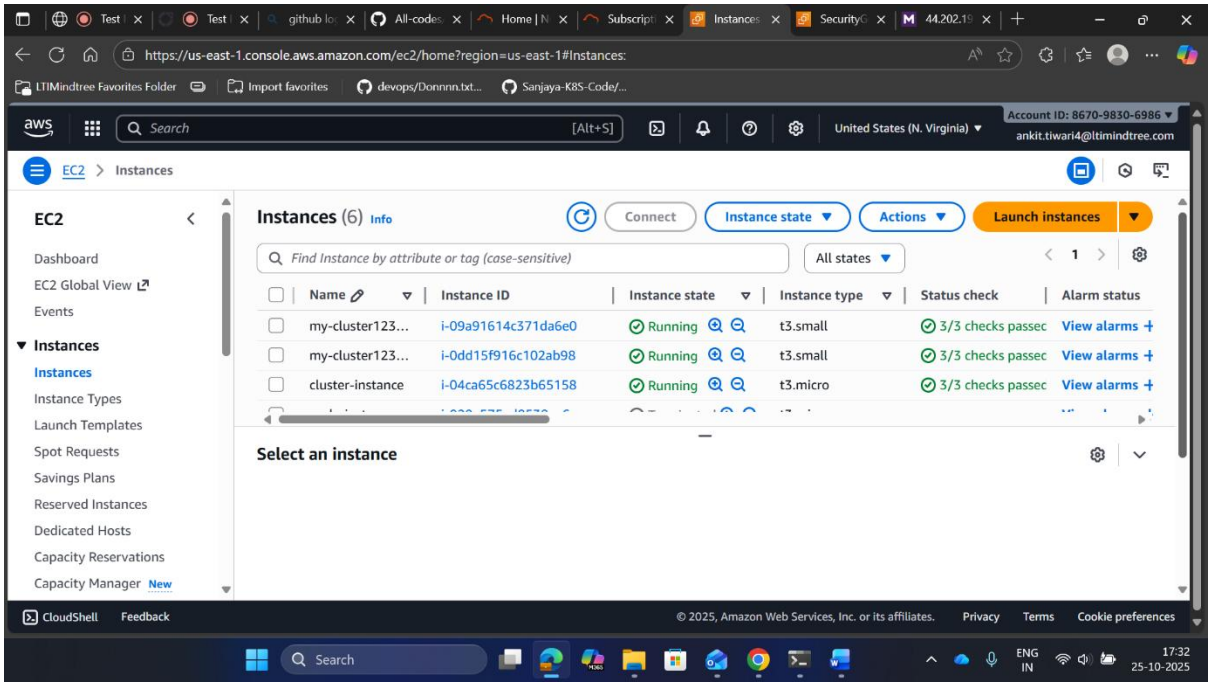
➔ Creating and successfully accessing the pods



➔ Cluster got created



➔ As you can see we have successfully created the pods on port:80


https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Search
[Alt+S]
United States (N. Virginia)
Account ID: 8670-9830-6986
ankit.tiwari4@ltimindtree.com
EC2 > Instances
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Capacity Manager New
Instances (6) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
my-cluster123...
i-09a91614c371da6e0
Running
t3.small
3/3 checks passec
View alarms
my-cluster123...
i-0dd15f916c102ab98
Running
t3.small
3/3 checks passec
View alarms
cluster-instance
i-04ca65c6823b65158
Running
t3.micro
3/3 checks passec
View alarms
Select an instance
CloudShell
Feedback
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ENG
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17:32
25-10-2025