Module 6: Container Orchestration - Kubernetes

~ Abhijit Zende

1. Install and Configure Kubernetes cluster using Kubeadm on AWS

2. Create Deployment Controller Object to Deploy the Application Image Created in Docker Module and Expose it to the Internet

3. Scale-up and Scale-Down the Pods Deployed

4. Implement Rolling-Update Strategy to Upgrade the Application Image from V1.0 to V1.1

 # Detailed notes & Guide on my GitHub #

https://github.com/Abhiz2411/kubernetes-container-orchestration-mastery

aws

#On all pages with screenshot the last screenshot is first one while first is last#

 # All screen shots are attached at end of every question's answer #

1. L1 – Install and Configure Kubernetes cluster using Kubeadm on AWS.

Ans.

Step 1: Launch Three t2.medium Ubuntu 22.04 Instances:

1. Use AWS cloud provider to launch **three EC2 t2.medium Ubuntu 22.04 instances**:
    a. One instance will act as the **Kubernetes Master** node.
    b. The other two will serve as **Worker** nodes.

Step 2: Configure all necessary Kubernetes tools:

1. Install and Configure all necessary Kubernetes tools like **kubeadm, kubelet, kubectl**, etc on all three nodes(Kubernetes Maste node*1 + Kubernetes Worker node*2)
2. You can do above by following the official Kubernetes documentation https://kubernetes.io/docs/tasks/tools/
3. For guided tour of installation you can follow below link: https://github.com/SA-AWS-DevOps-July24/Training_Documents/blob/main/Kubernetes/Kubernetes_Installation_Config.txt
    a. **Preliminary Steps on All Nodes (Master and Workers)**
        i. **Update System and Set Hostnames**

```
sudo apt update -y
sudo hostnamectl set-hostname <node-name>
reboot
```

        ii. **Disable Swap**

```
sudo swapoff -a
sudo sed -i '/ swap / s/^\(.*\)$/#\1/g' /etc/fstab
```

        iii. **Install Docker and Containerd**

```
```

```
sudo apt install docker.io -y
sudo modprobe overlay br_netfilter
sudo tee /etc/modules-load.d/containerd.conf <<EOF
overlay
br_netfilter
EOF
sudo tee /etc/sysctl.d/kubernetes.conf <<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
sudo sysctl --system
sudo apt install -y apt-transport-https curl
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
sudo apt update -y
sudo apt install -y containerd.io
sudo mkdir -p /etc/containerd
sudo containerd config default | sudo tee /etc/containerd/config.toml
sudo systemctl restart containerd
```

iv. Install Kubernetes Components

```
sudo mkdir -p -m 755 /etc/apt/keyrings
curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.29/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg
echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list
sudo apt-get update
```

```
sudo apt-get install -y kubelet kubeadm kubectl
sudo systemctl enable kubelet
```

b. On Master node:

i. Initialize Kubernetes Cluster

```
sudo kubeadm config images pull
sudo kubeadm init --pod-network-cidr=10.244.0.0/16
mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
```

ii. Deploy Network Plugin

```
kubectl apply -f https://github.com/coreos/flannel/raw/master/Documentation/kube-flannel.yml
kubectl get nodes
kubectl get pods --all-namespaces
```

iii. Generate Join Command

```
kubeadm token create --print-join-command
```

c. On Worker Nodes

i. Join Cluster

```
kubeadm join <master-ip>:6443 --token <token> --discovery-token-ca-cert-hash <hash>
```

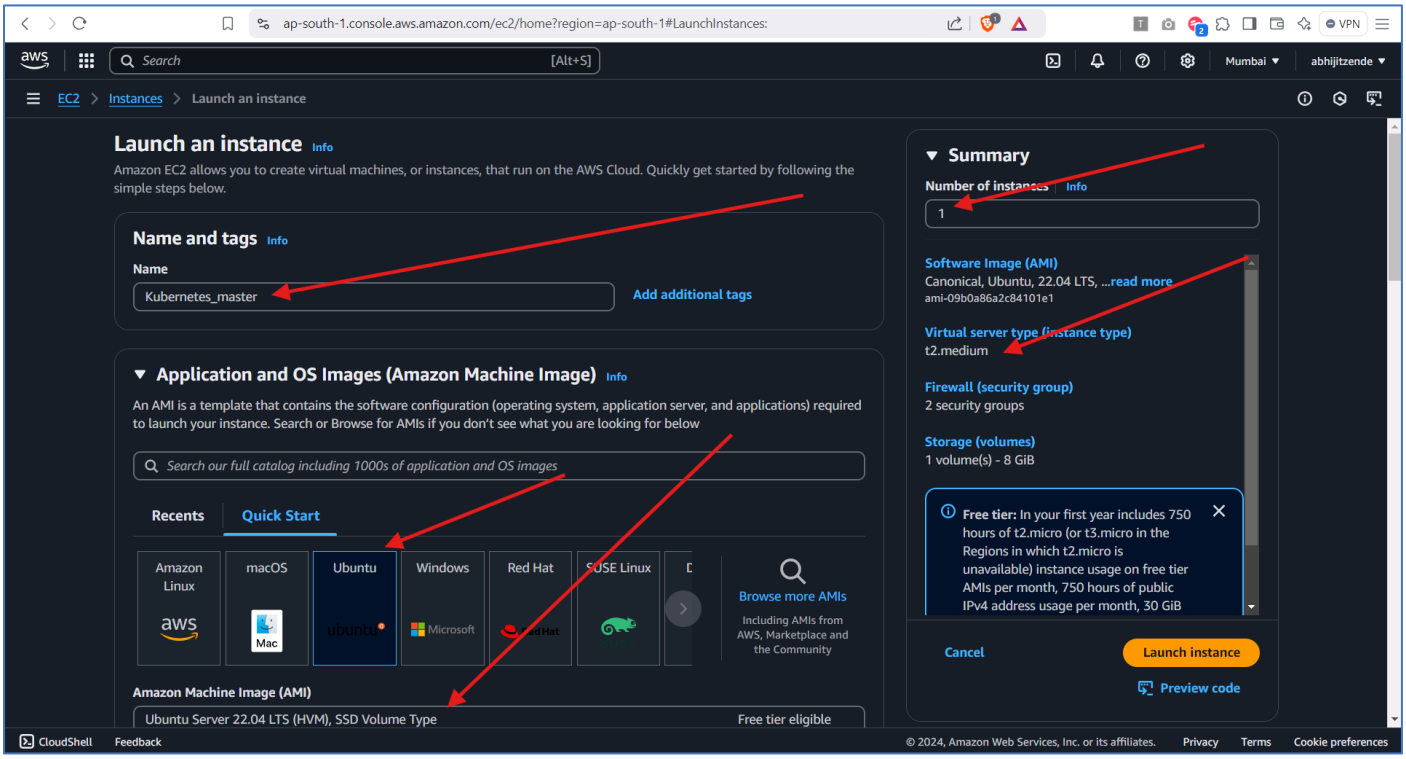
ii. Verify Node Status (From Master)

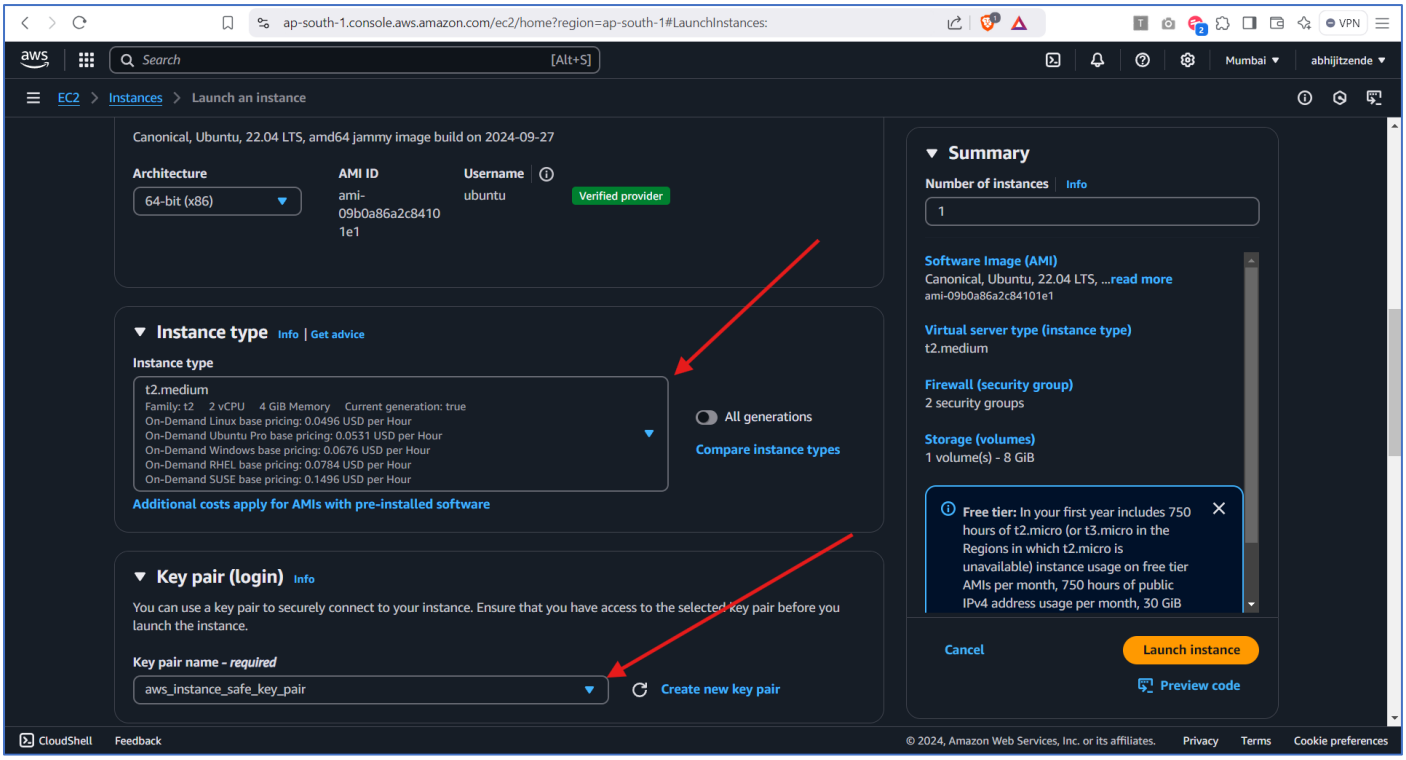
```
kubectl get nodes
```

d. Final Steps (Optional)

i. Label worker nodes from the master:

```
kubectl label node <worker-node-name> node-role.kubernetes.io/worker=worker
```




ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
abhijitzende
EC2 > Instances > Launch an instance
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2024-09-27
Architecture
64-bit (x86)
AMI ID
ami-09b0a86a2c84101e1
Username
ubuntu
Verified provider
Instance type Info | Get advice
Instance type
t2.medium
Family: t2 2 vCPU 4 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0496 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0531 USD per Hour
On-Demand Windows base pricing: 0.0676 USD per Hour
On-Demand RHEL base pricing: 0.0784 USD per Hour
On-Demand SUSE base pricing: 0.1496 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
aws_instance_safe_key_pair
Create new key pair
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
Virtual server type (instance type)
t2.medium
Firewall (security group)
2 security groups
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB
Cancel
Launch instance
Preview code
CloudShell
Feedback
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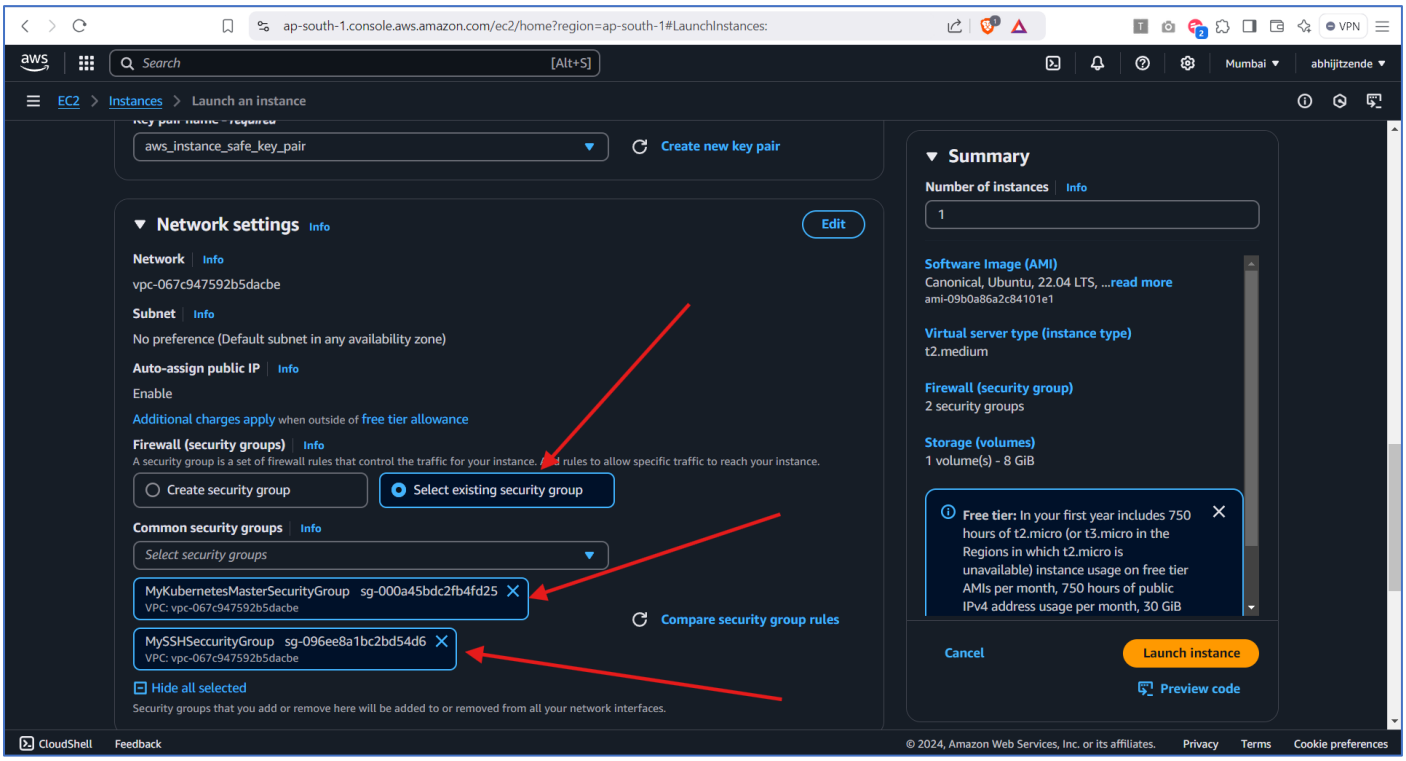
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
abhijitzende
EC2 > Instances > Launch an instance
aws_instance_safe_key_pair
Create new key pair
Network settings Info
Edit
Network Info
vpc-067c947592b5dacbe
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
Common security groups Info
Select security groups
MyKubernetesMasterSecurityGroup sg-000a45bdc2fb4fd25
VPC: vpc-067c947592b5dacbe
MySSHSeccurityGroup sg-096ee8a1bc2bd54d6
VPC: vpc-067c947592b5dacbe
Compare security group rules
Hide all selected
Security groups that you add or remove here will be added to or removed from all your network interfaces.
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
Virtual server type (instance type)
t2.medium
Firewall (security group)
2 security groups
Storage (volumes)
1 volume(s) - 8 GiB
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Cancel
Launch instance
Preview code
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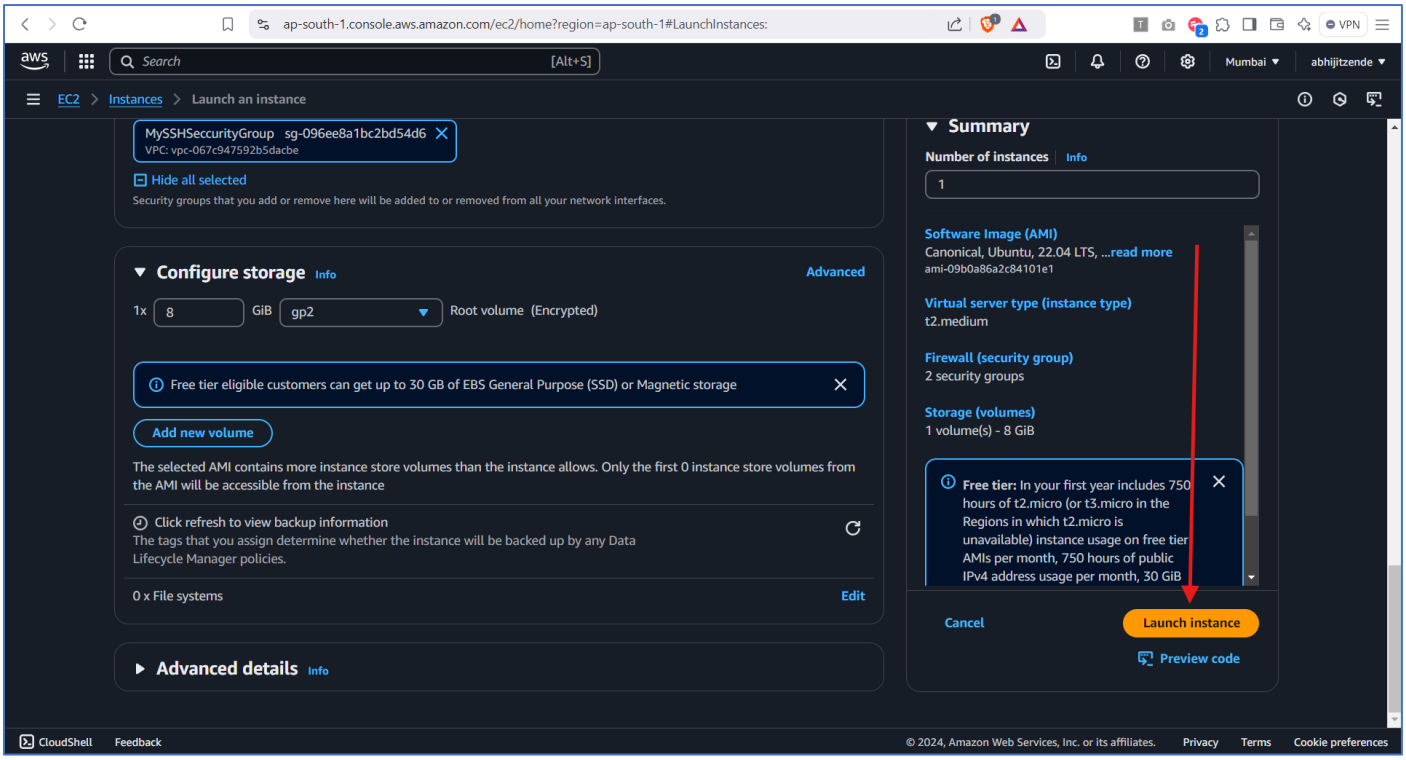
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
abhijitzende
EC2 > Instances > Launch an instance
MySSHSeccurityGroup sg-096ee8a1bc2bd54d6
VPC: vpc-067c947592b5dacbe
Hide all selected
Security groups that you add or remove here will be added to or removed from all your network interfaces.
Configure storage Info
Advanced
1x 8 GiB gp2 Root volume (Encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
Virtual server type (instance type)
t2.medium
Firewall (security group)
2 security groups
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB
Cancel
Launch instance
Preview code
CloudShell
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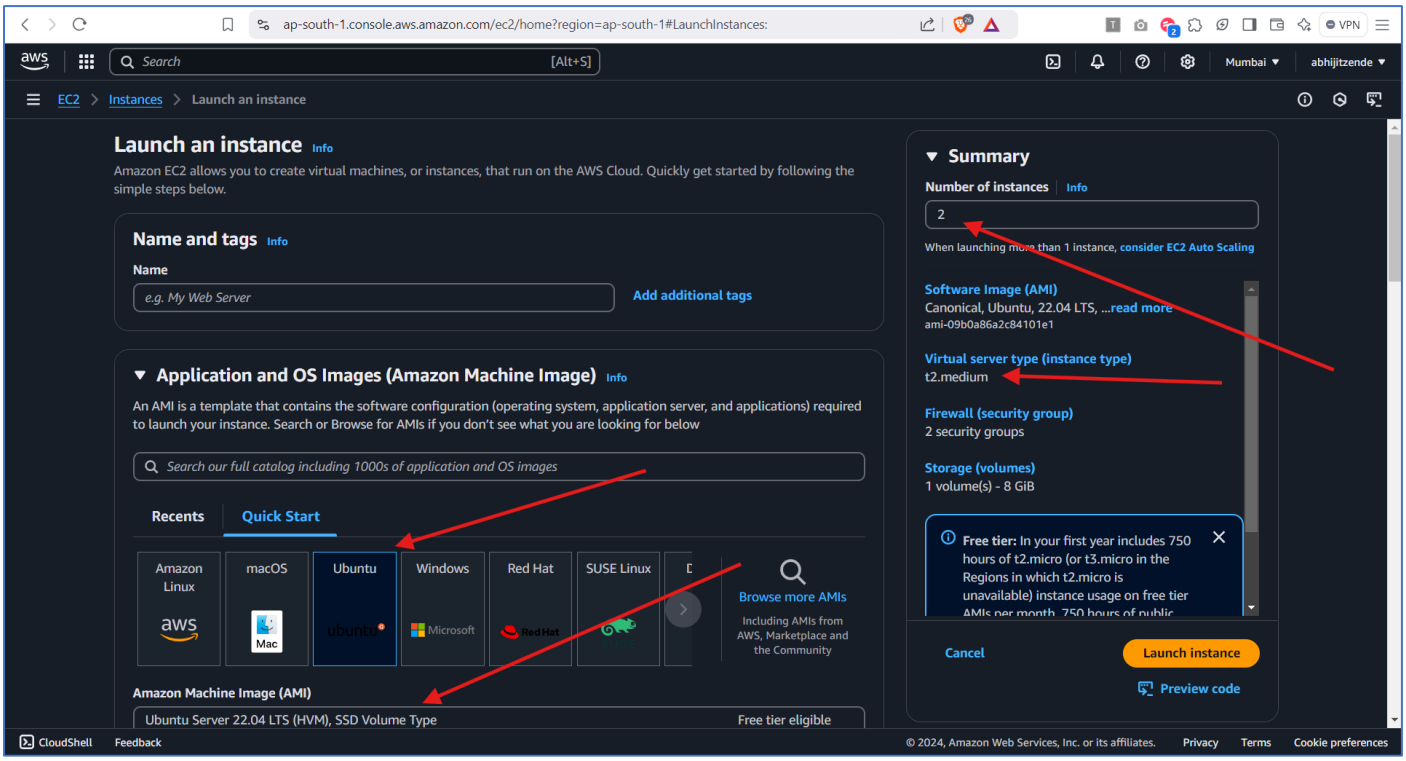
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
abhijitzende
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
e.g. My Web Server
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
Free tier eligible
Summary
Number of instances Info
2
When launching more than 1 instance, consider EC2 Auto Scaling
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
Virtual server type (instance type)
t2.medium
Firewall (security group)
2 security groups
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier
Cancel
Launch instance
Preview code
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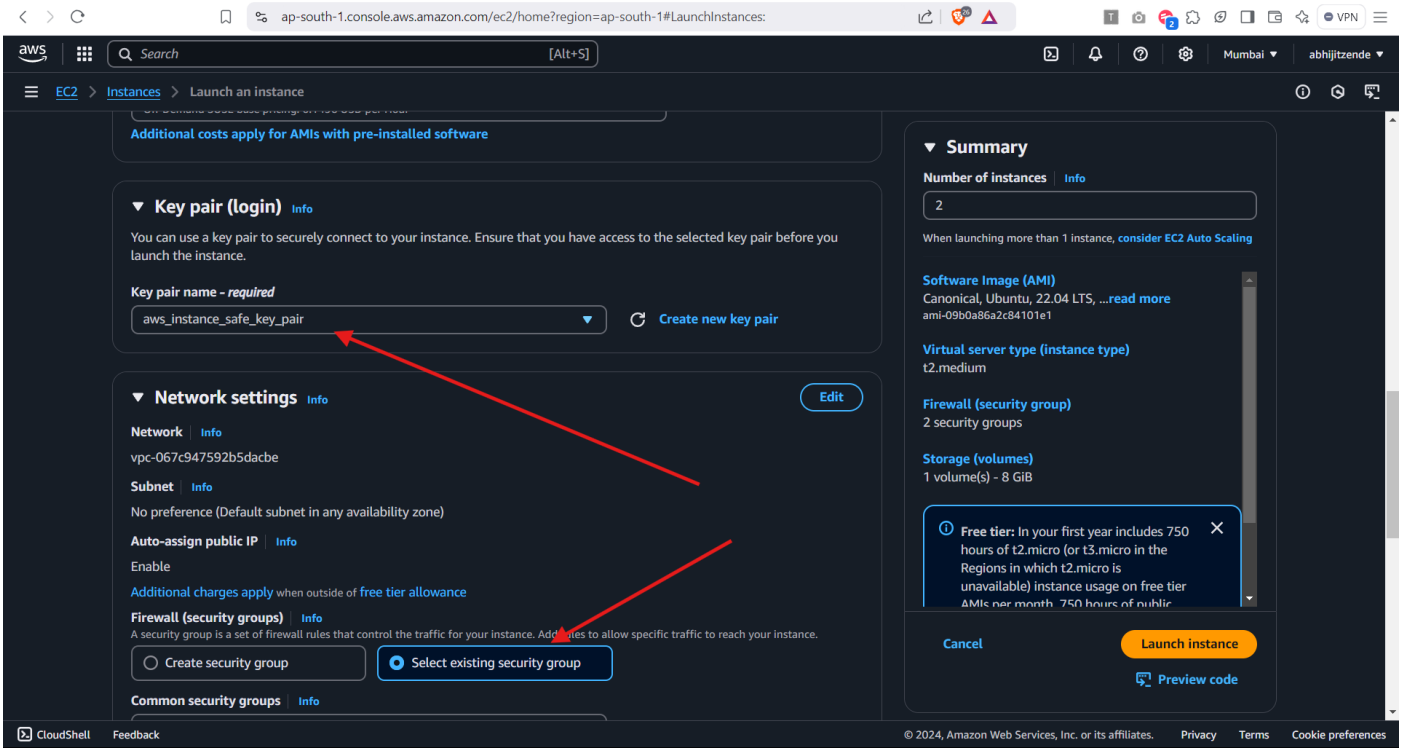
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
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EC2 > Instances > Launch an instance
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Key pair name - required
aws_instance_safe_key_pair
Create new key pair
Network settings Info
Edit
Network Info
vpc-067c947592b5dacbe
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
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Select existing security group
Common security groups Info
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Number of instances Info
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Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
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1 volume(s) - 8 GiB
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Cancel
Launch instance
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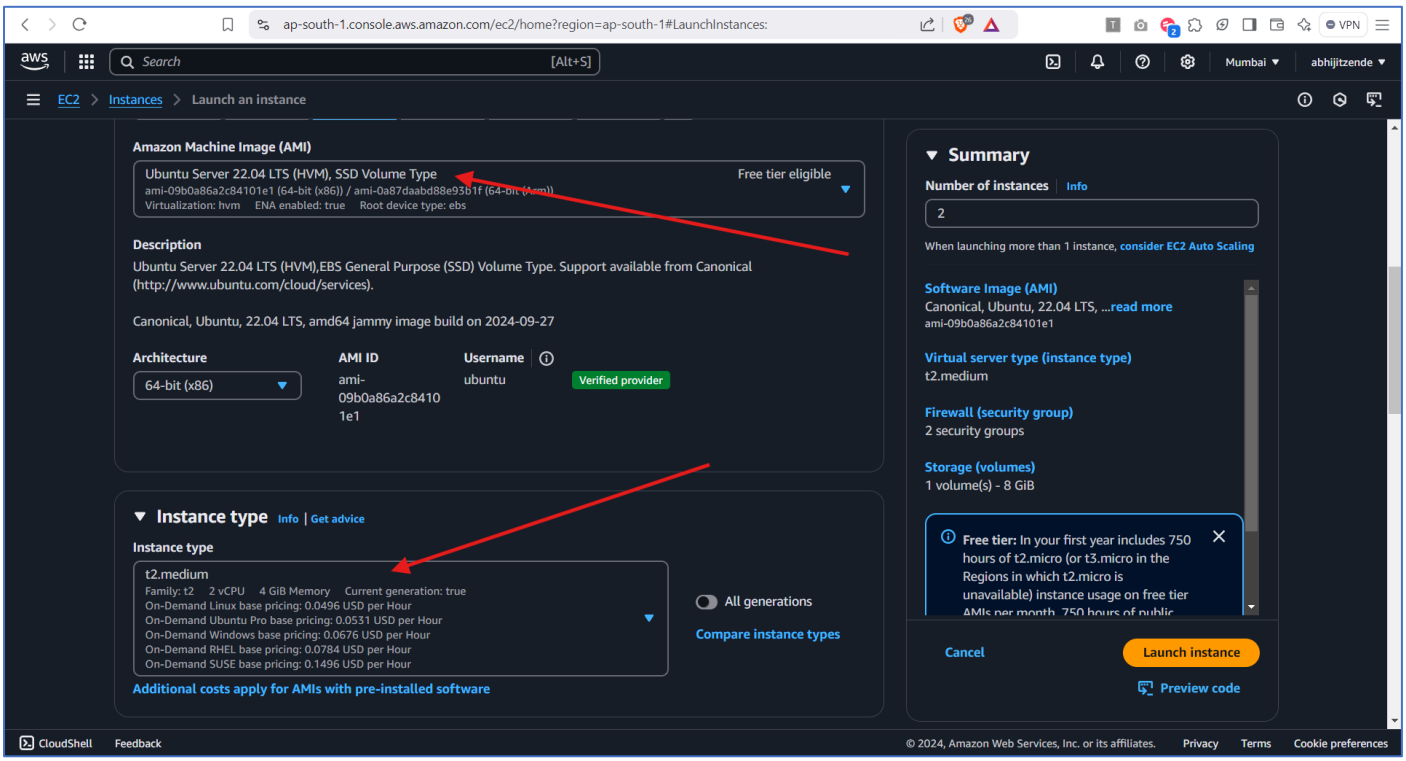
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Mumbai
abhijitzende
EC2 > Instances > Launch an instance
Amazon Machine Image (AMI)
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
Free tier eligible
ami-09b0a86a2c84101e1 (64-bit (x86)) / ami-0a87daabd88e93b1f (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Description
Ubuntu Server 22.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2024-09-27
Architecture
64-bit (x86)
AMI ID
ami-09b0a86a2c84101e1
Username
ubuntu
Verified provider
Instance type Info | Get advice
Instance type
t2.medium
Family: t2 2 vCPU 4 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0496 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0531 USD per Hour
On-Demand Windows base pricing: 0.0676 USD per Hour
On-Demand RHEL base pricing: 0.0784 USD per Hour
On-Demand SUSE base pricing: 0.1496 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
Summary
Number of instances Info
2
When launching more than 1 instance, consider EC2 Auto Scaling
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-09b0a86a2c84101e1
Virtual server type (instance type)
t2.medium
Firewall (security group)
2 security groups
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier
Cancel
Launch instance
Preview code
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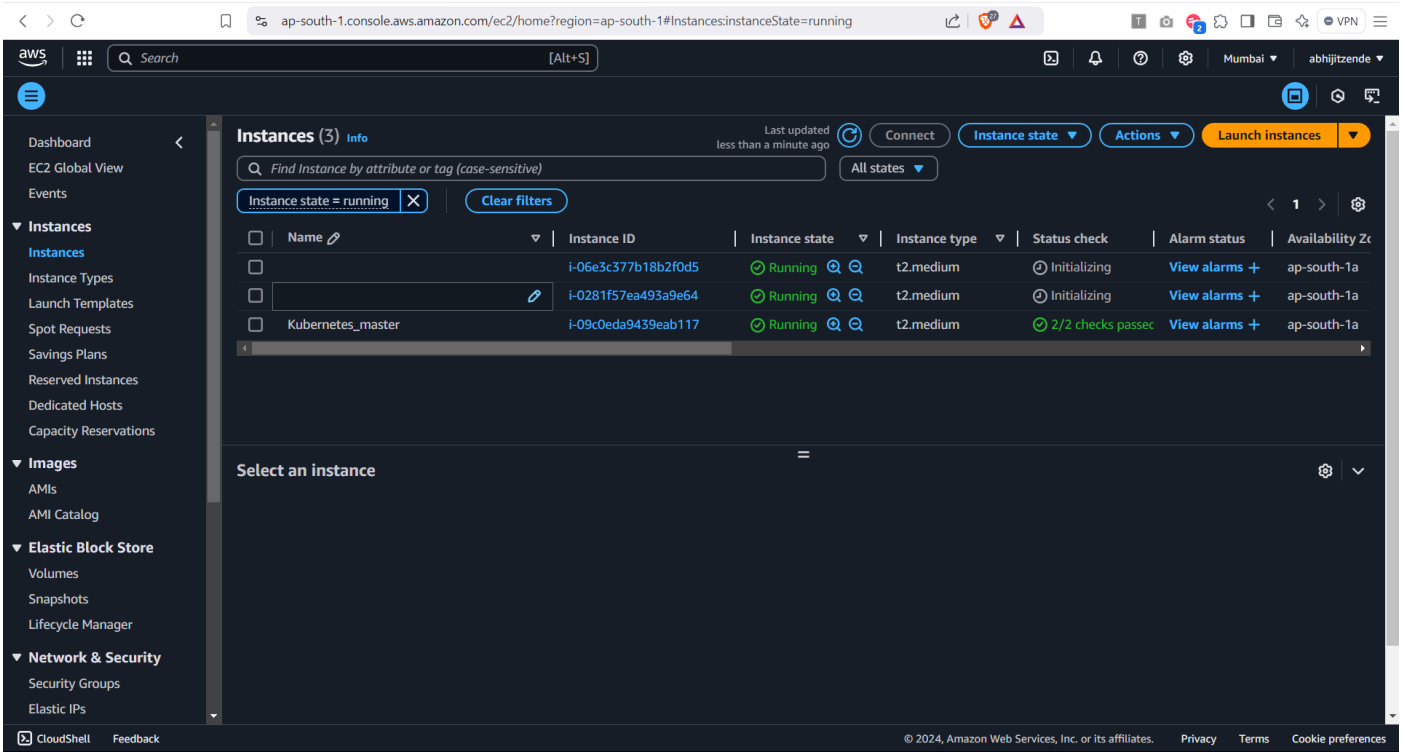
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running
Search
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EC2 Global View
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Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Instances (3) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
i-06e3c377b18b2f0d5
Running
t2.medium
Initializing
View alarms
ap-south-1a
i-0281f57ea493a9e64
Running
t2.medium
Initializing
View alarms
ap-south-1a
Kubernetes_master
i-09c0eda9439eab117
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
Select an instance
CloudShell
Feedback
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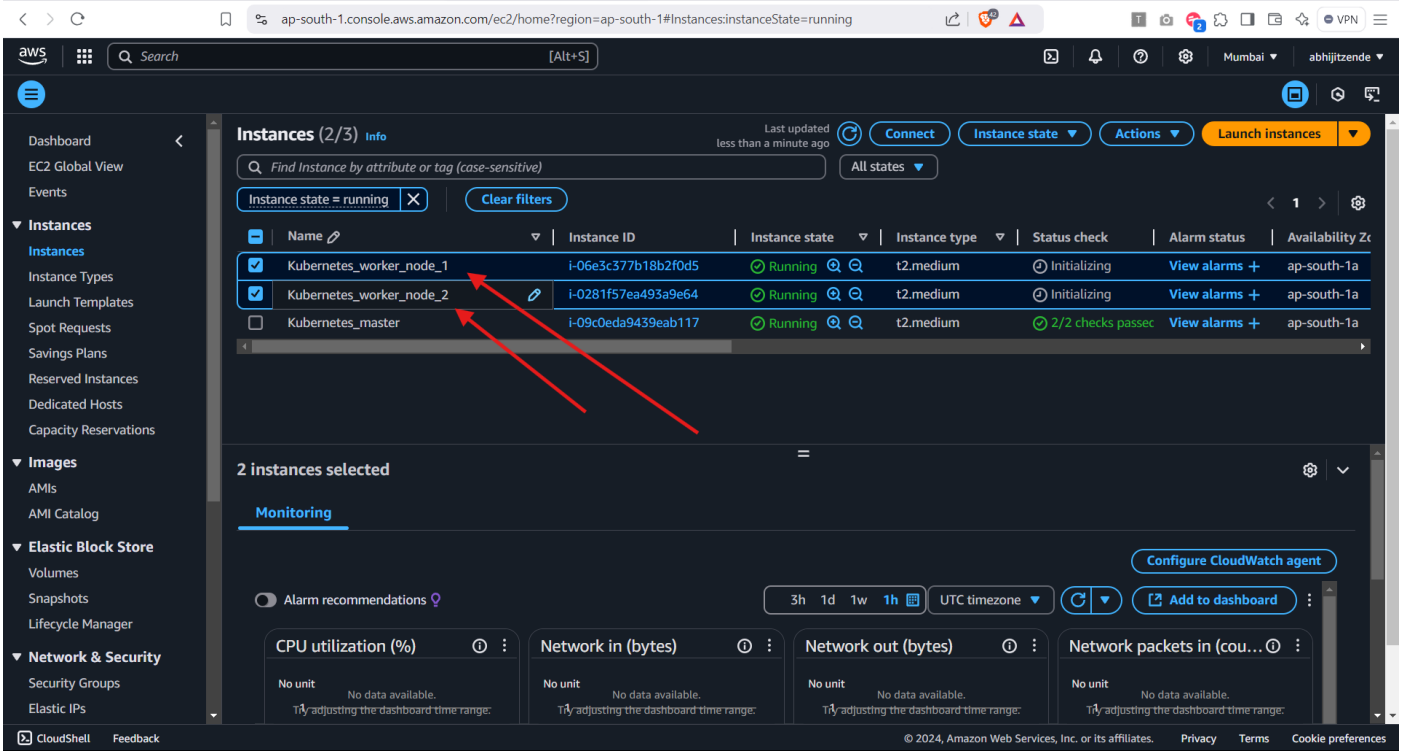
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running
Search
[Alt+S]
Mumbai
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Dashboard
EC2 Global View
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Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Instances (2/3) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
Kubernetes_worker_node_1
i-06e3c377b18b2f0d5
Running
t2.medium
Initializing
View alarms
ap-south-1a
Kubernetes_worker_node_2
i-0281f57ea493a9e64
Running
t2.medium
Initializing
View alarms
ap-south-1a
Kubernetes_master
i-09c0eda9439eab117
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
2 instances selected
Monitoring
Configure CloudWatch agent
Alarm recommendations
3h
1d
1w
1h
UTC timezone
Add to dashboard
CPU utilization (%)
Network in (bytes)
Network out (bytes)
Network packets in (cou...
No unit
No data available.
Try adjusting the dashboard time range.
CloudShell
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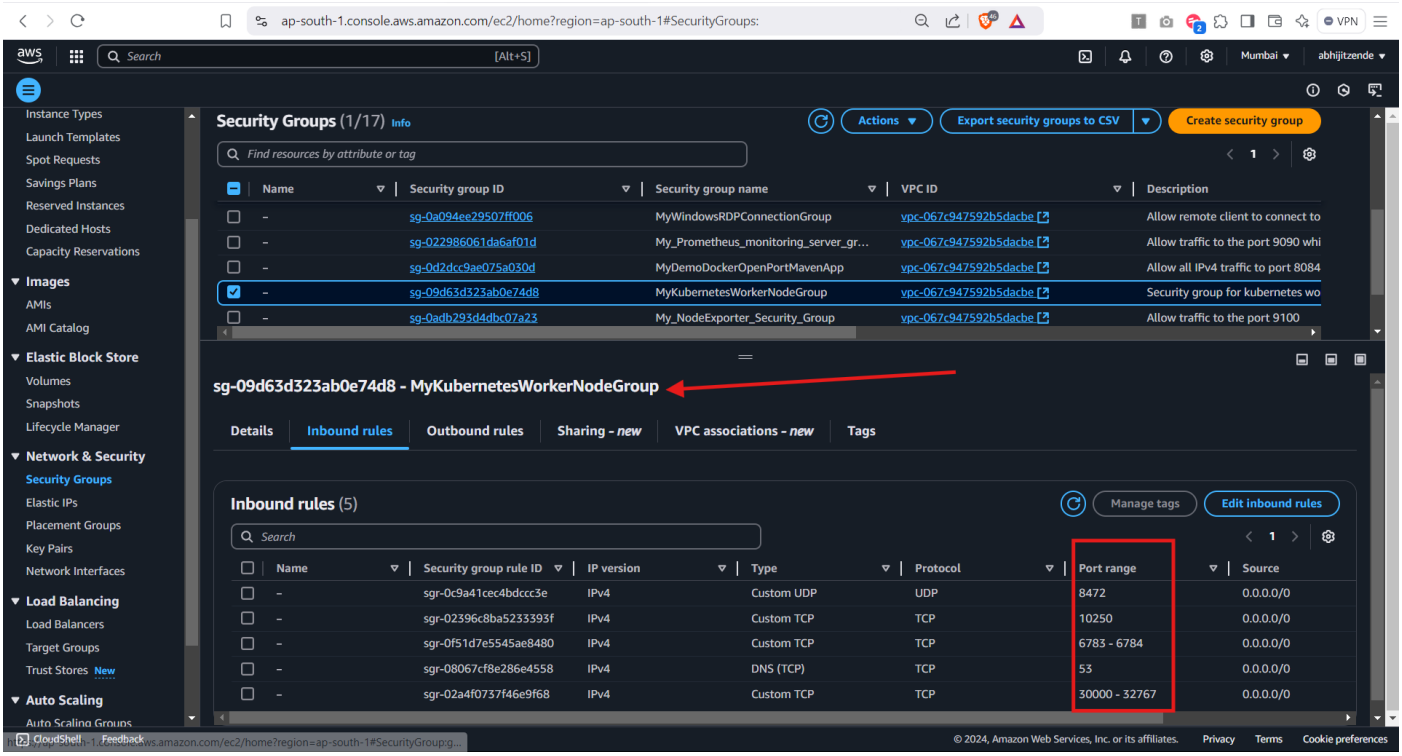
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroups:
Search [Alt+S]
Mumbai
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Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
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Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores New
Auto Scaling
Auto Scaling Groups
Security Groups (1/17) Info
Actions
Export security groups to CSV
Create security group
Find resources by attribute or tag
Name | Security group ID | Security group name | VPC ID | Description
- sg-0a094ee29507ff006 MyWindowsRDPConnectionGroup vpc-067c947592b5dacbe Allow remote client to connect to
- sg-022986061da6af01d My_Prometheus_monitoring_server_gr... vpc-067c947592b5dacbe Allow traffic to the port 9090 whi
- sg-0d2dcc9ae075a030d MyDemoDockerOpenPortMavenApp vpc-067c947592b5dacbe Allow all IPv4 traffic to port 8084
- sg-09d63d323ab0e74d8 MyKubernetesWorkerNodeGroup vpc-067c947592b5dacbe Security group for kubernetes wo
- sg-0adb293d4dbc07a23 My_NodeExporter_Security_Group vpc-067c947592b5dacbe Allow traffic to the port 9100
sg-09d63d323ab0e74d8 - MyKubernetesWorkerNodeGroup
Details
Inbound rules
Outbound rules
Sharing - new
VPC associations - new
Tags
Inbound rules (5)
Manage tags
Edit inbound rules
Search
Name | Security group rule ID | IP version | Type | Protocol | Port range | Source
- sgr-0c9a41cec4bdccc3e IPv4 Custom UDP UDP 8472 0.0.0.0/0
- sgr-02396c8ba5233393f IPv4 Custom TCP TCP 10250 0.0.0.0/0
- sgr-0f51d7e5545ae8480 IPv4 Custom TCP TCP 6783 - 6784 0.0.0.0/0
- sgr-08067cf8e286e4558 IPv4 DNS (TCP) TCP 53 0.0.0.0/0
- sgr-02a4f0737f46e9f68 IPv4 Custom TCP TCP 30000 - 32767 0.0.0.0/0
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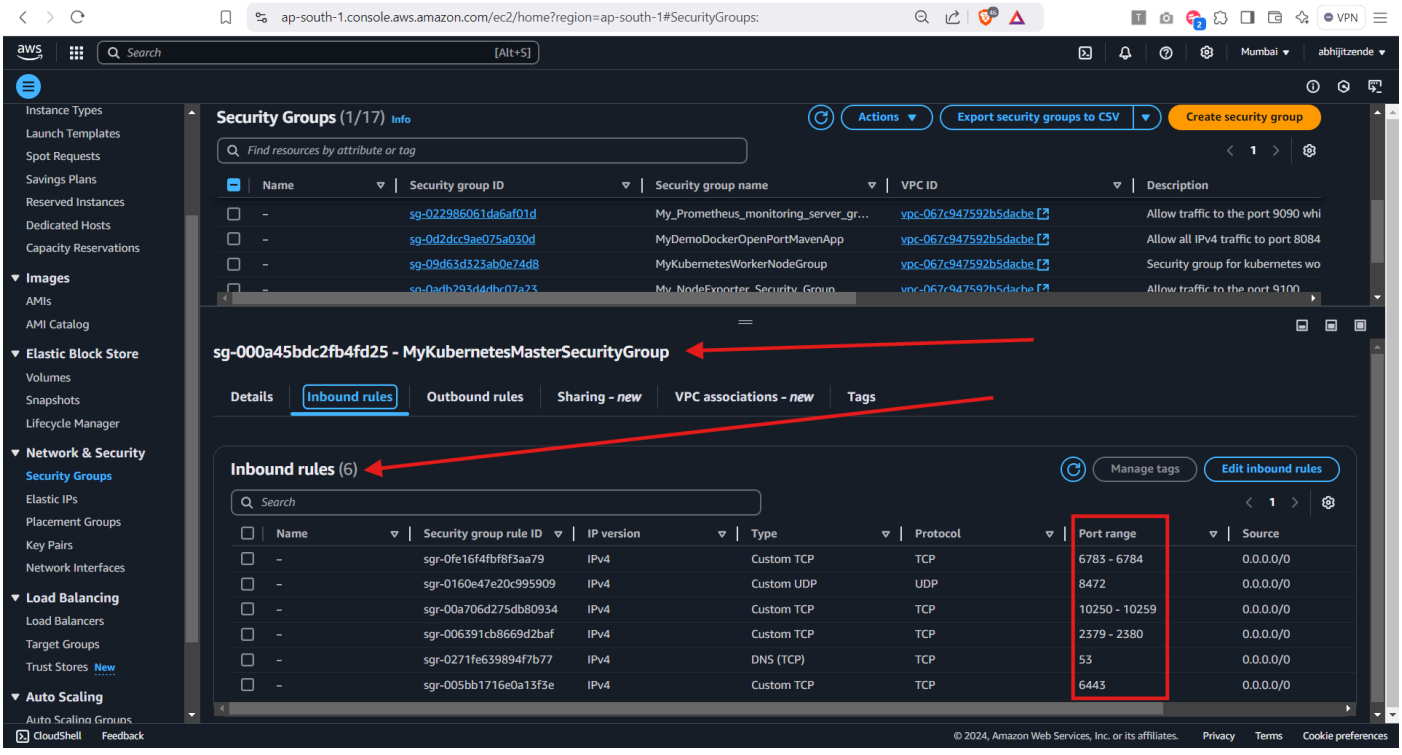
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroups:
Search [Alt+S]
Mumbai
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Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores New
Auto Scaling
Auto Scaling Groups
Security Groups (1/17) Info
Actions
Export security groups to CSV
Create security group
Find resources by attribute or tag
Name | Security group ID | Security group name | VPC ID | Description
- sg-022986061da6af01d My_Prometheus_monitoring_server_gr... vpc-067c947592b5dacbe Allow traffic to the port 9090 whi
- sg-0d2dcc9ae075a030d MyDemoDockerOpenPortMavenApp vpc-067c947592b5dacbe Allow all IPv4 traffic to port 8084
- sg-09d63d323ab0e74d8 MyKubernetesWorkerNodeGroup vpc-067c947592b5dacbe Security group for kubernetes wo
- sg-0adb293d4dbc07a23 My_NodeExporter_Security_Group vpc-067c947592b5dacbe Allow traffic to the port 9100
sg-000a45bdc2fb4fd25 - MyKubernetesMasterSecurityGroup
Details
Inbound rules
Outbound rules
Sharing - new
VPC associations - new
Tags
Inbound rules (6)
Manage tags
Edit inbound rules
Search
Name | Security group rule ID | IP version | Type | Protocol | Port range | Source
- sgr-0fe16f4fbf8f3aa79 IPv4 Custom TCP TCP 6783 - 6784 0.0.0.0/0
- sgr-0160e47e20c995909 IPv4 Custom UDP UDP 8472 0.0.0.0/0
- sgr-00a706d275db80934 IPv4 Custom TCP TCP 10250 - 10259 0.0.0.0/0
- sgr-006391cb8669d2baf IPv4 Custom TCP TCP 2379 - 2380 0.0.0.0/0
- sgr-0271fe639894f7b77 IPv4 DNS (TCP) TCP 53 0.0.0.0/0
- sgr-005bb1716e0a13f3e IPv4 Custom TCP TCP 6443 0.0.0.0/0
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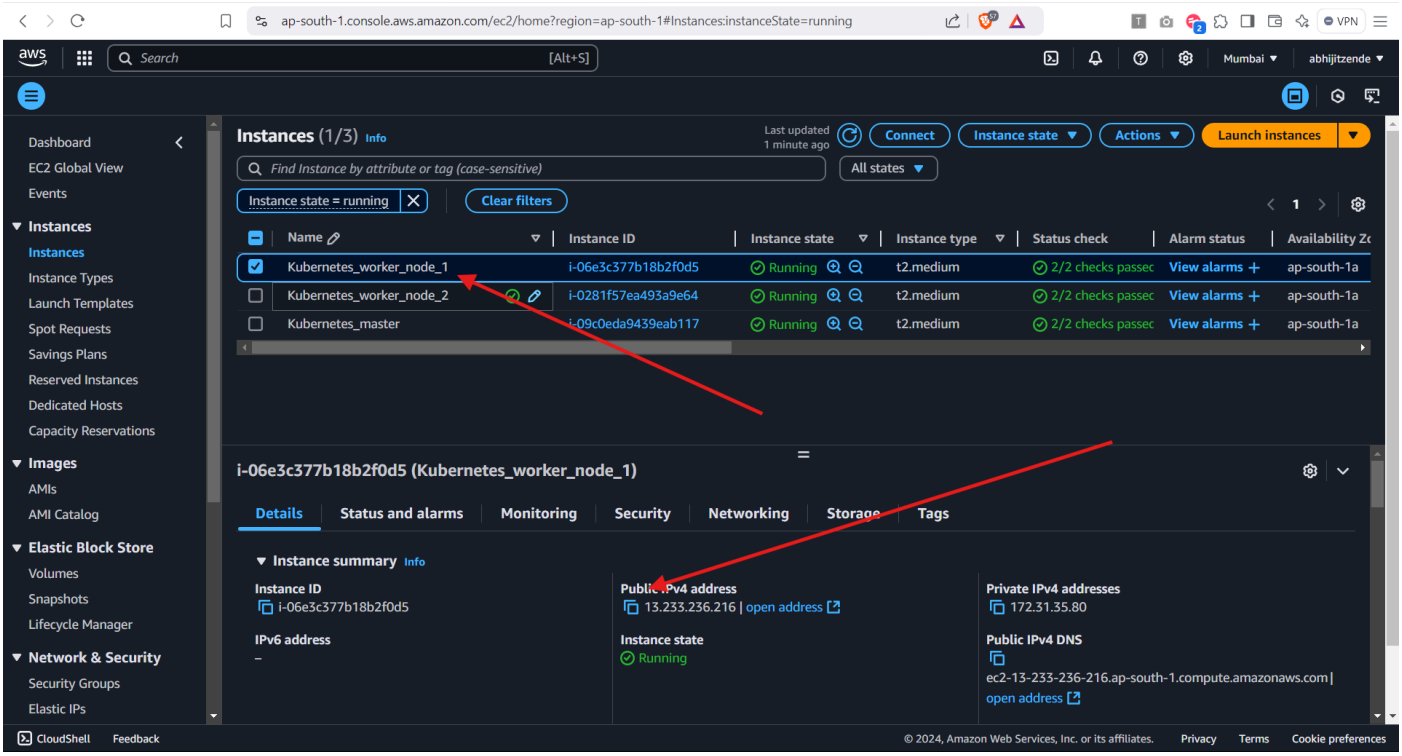
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running
Search
[Alt+S]
Mumbai
abhijitzende
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
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AMI Catalog
Elastic Block Store
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Network & Security
Security Groups
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Instances (1/3) Info
Last updated 1 minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
Kubernetes_worker_node_1
i-06e3c377b18b2f0d5
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
Kubernetes_worker_node_2
i-0281f57ea493a9e64
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
Kubernetes_master
i-09c0eda9439eab117
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
Details
Status and alarms
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Instance summary Info
Instance ID
i-06e3c377b18b2f0d5
IPv6 address
–
Public IPv4 address
13.233.236.216 | open address
Instance state
Running
Private IPv4 addresses
172.31.35.80
Public IPv4 DNS
ec2-13-233-236-216.ap-south-1.compute.amazonaws.com | open address
CloudShell
Feedback
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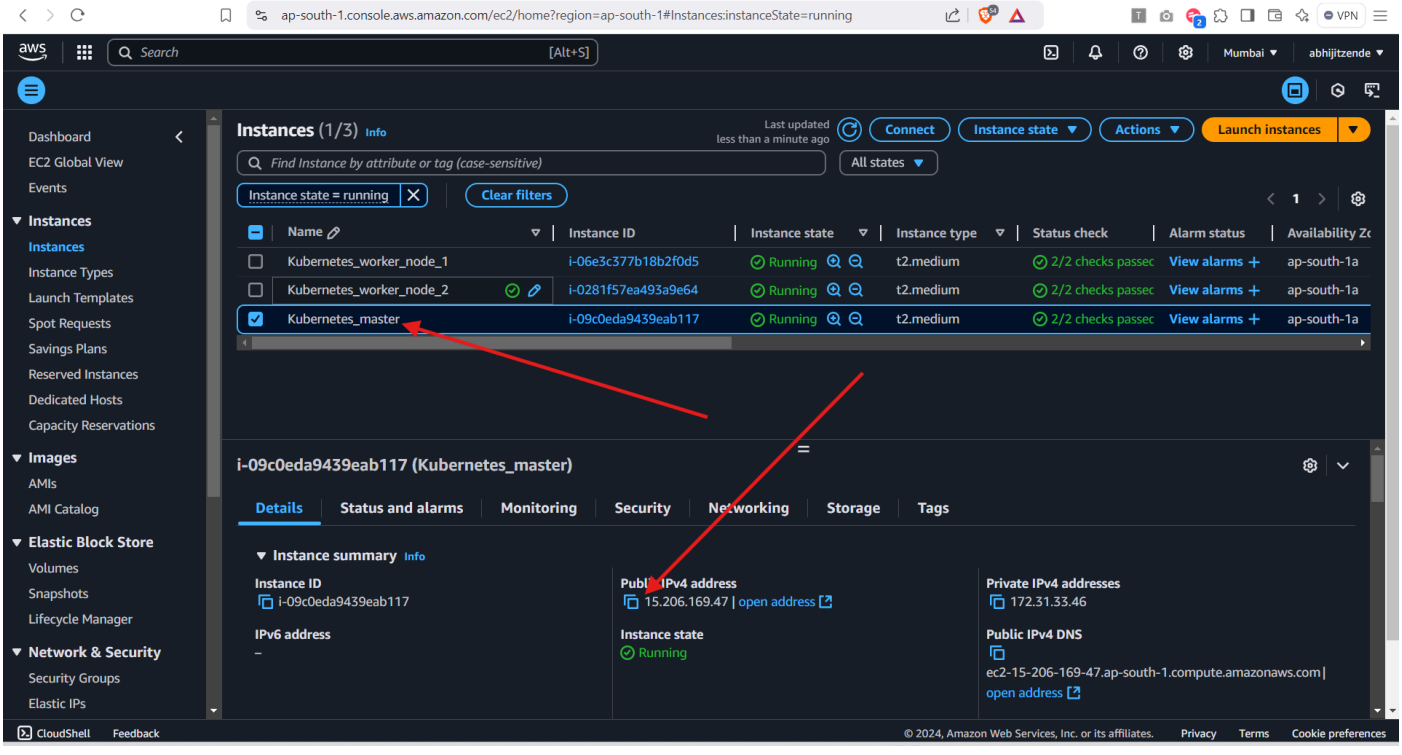
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running
Search
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Mumbai
abhijitzende
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Instance ID
Instance state
Instance type
Status check
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Availability Zo
Kubernetes_worker_node_1
i-06e3c377b18b2f0d5
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
Kubernetes_worker_node_2
i-0281f57ea493a9e64
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
Kubernetes_master
i-09c0eda9439eab117
Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
i-09c0eda9439eab117 (Kubernetes_master)
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Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-09c0eda9439eab117
IPv6 address
–
Public IPv4 address
15.206.169.47 | open address
Instance state
Running
Private IPv4 addresses
172.31.33.46
Public IPv4 DNS
ec2-15-206-169-47.ap-south-1.compute.amazonaws.com | open address
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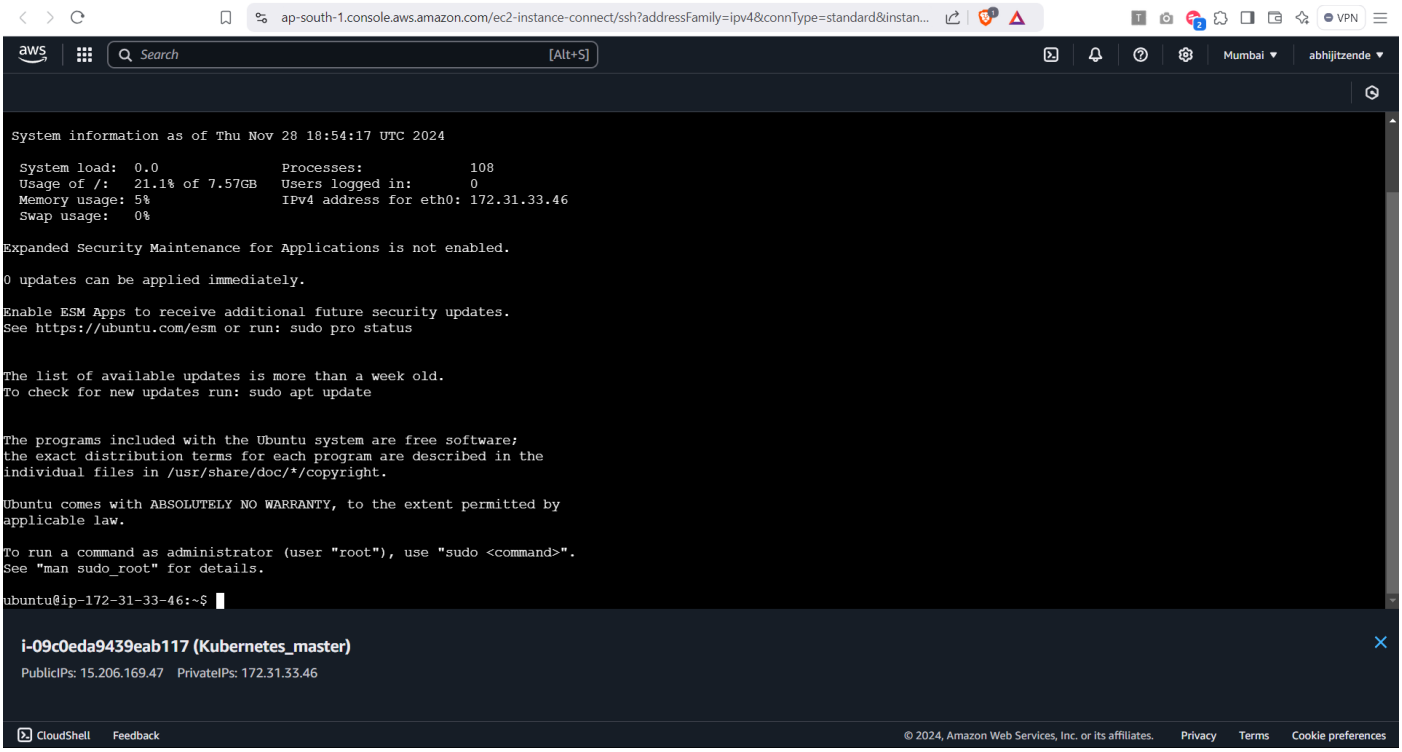
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instan...
Search
[Alt+S]
Mumbai
abhijitzende
System information as of Thu Nov 28 18:54:17 UTC 2024
System load: 0.0
Usage of /: 21.1% of 7.57GB
Memory usage: 5%
Swap usage: 0%
Processes: 108
Users logged in: 0
IPv4 address for eth0: 172.31.33.46
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-33-46:~$
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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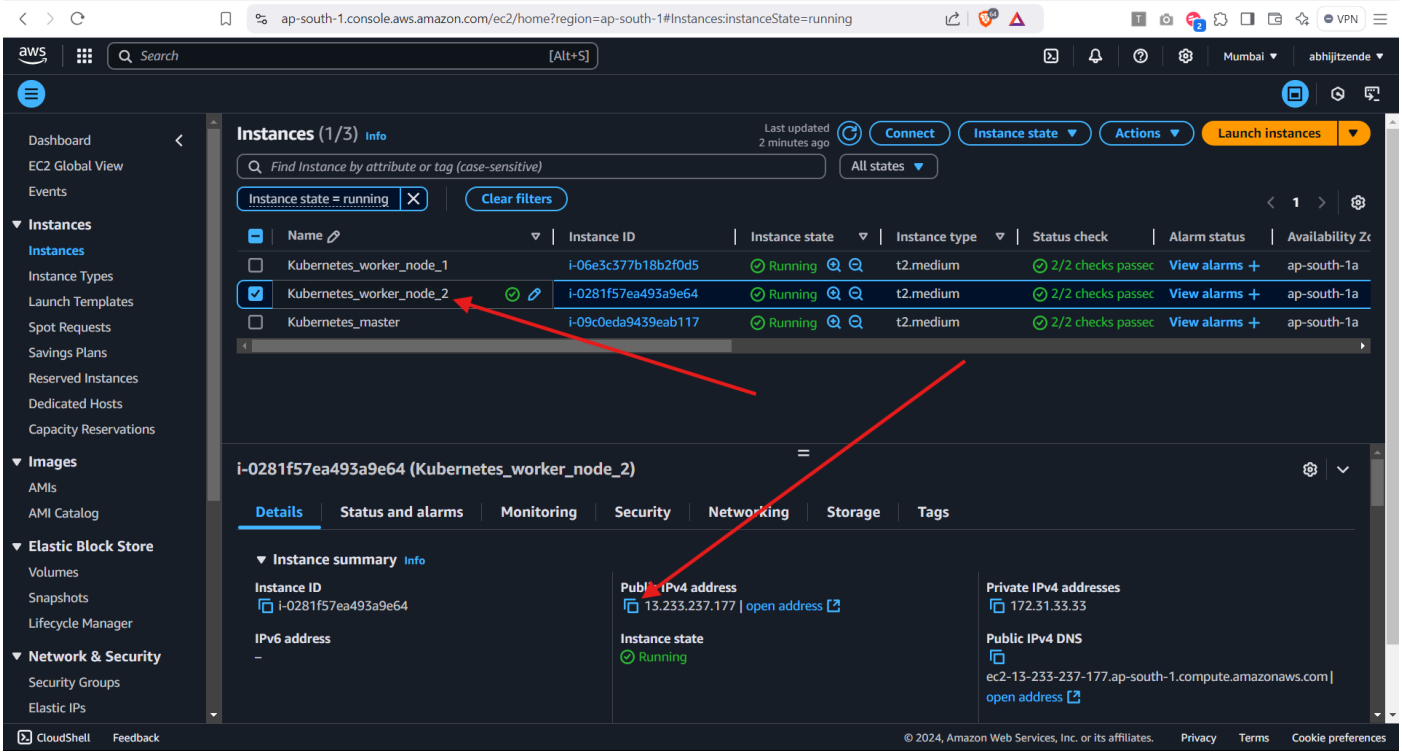
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running
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Instance state
Instance type
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Kubernetes_worker_node_1
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2/2 checks passed
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Kubernetes_worker_node_2
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Running
t2.medium
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Kubernetes_master
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Running
t2.medium
2/2 checks passed
View alarms
ap-south-1a
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0281f57ea493a9e64
IPv6 address
–
Public IPv4 address
13.233.237.177 | open address
Instance state
Running
Private IPv4 addresses
172.31.33.33
Public IPv4 DNS
ec2-13-233-237-177.ap-south-1.compute.amazonaws.com | open address
CloudShell
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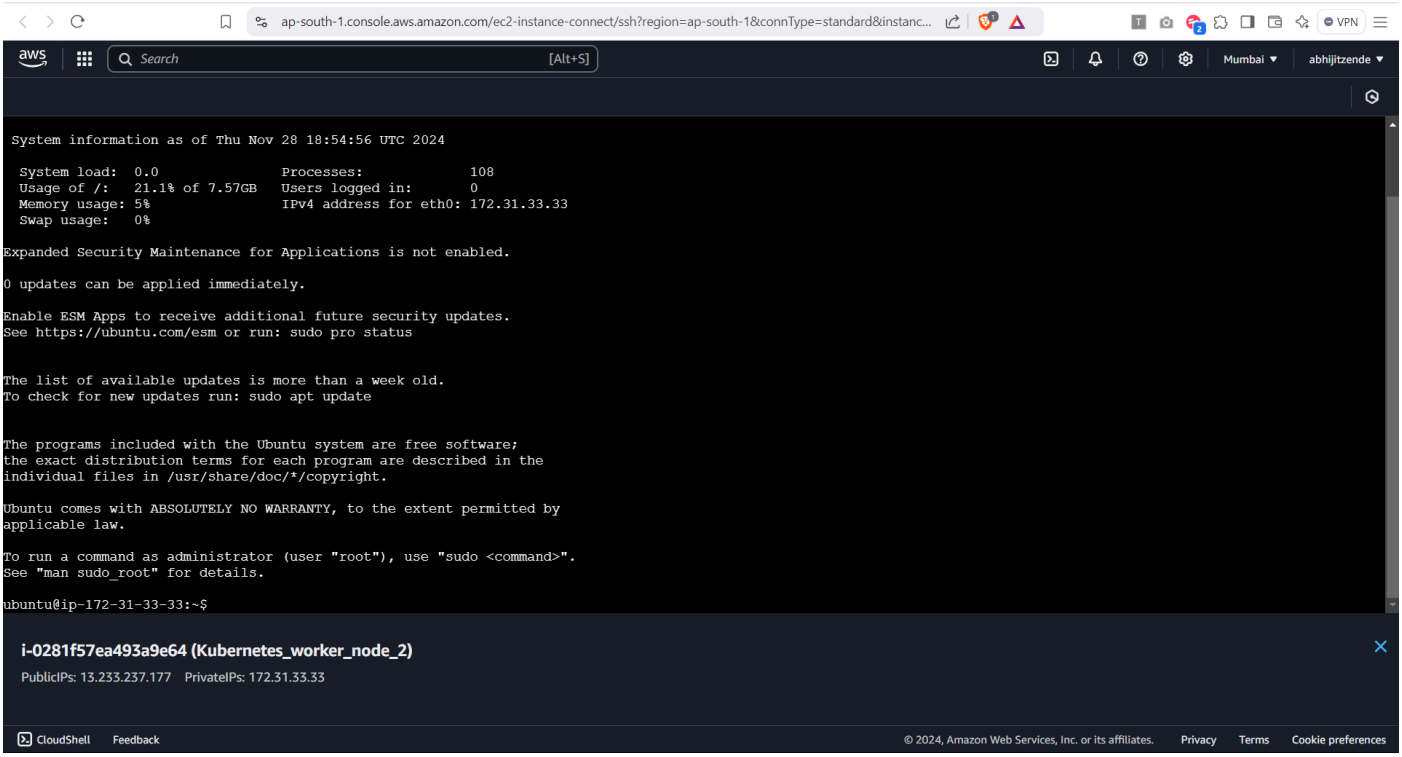
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
System information as of Thu Nov 28 18:54:56 UTC 2024
System load: 0.0
Usage of /: 21.1% of 7.57GB
Memory usage: 5%
Swap usage: 0%
Processes: 108
Users logged in: 0
IPv4 address for eth0: 172.31.33.33
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0 updates can be applied immediately.
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ubuntu@ip-172-31-33-33:~$
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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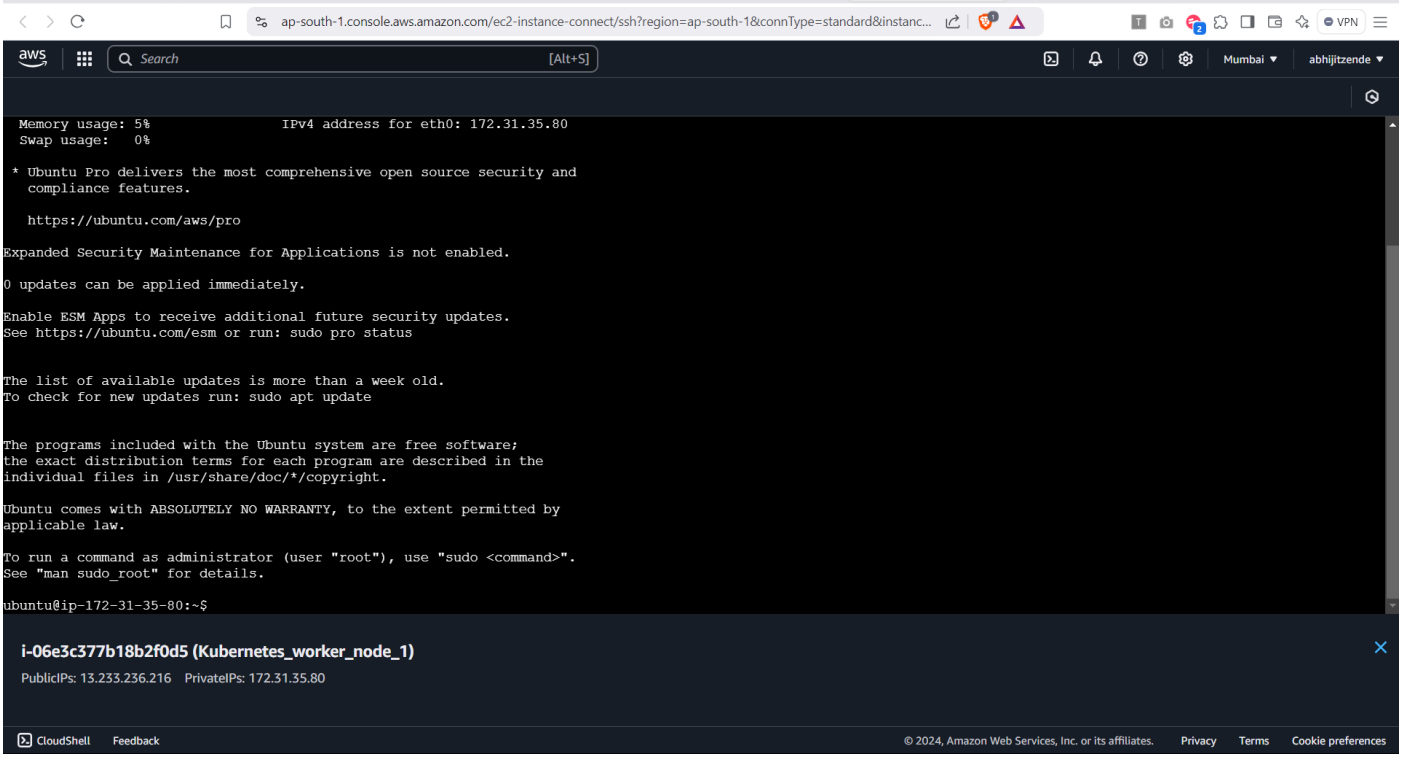
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
Memory usage: 5%
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IPv4 address for eth0: 172.31.35.80
* Ubuntu Pro delivers the most comprehensive open source security and
compliance features.
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See "man sudo_root" for details.
ubuntu@ip-172-31-35-80:~$
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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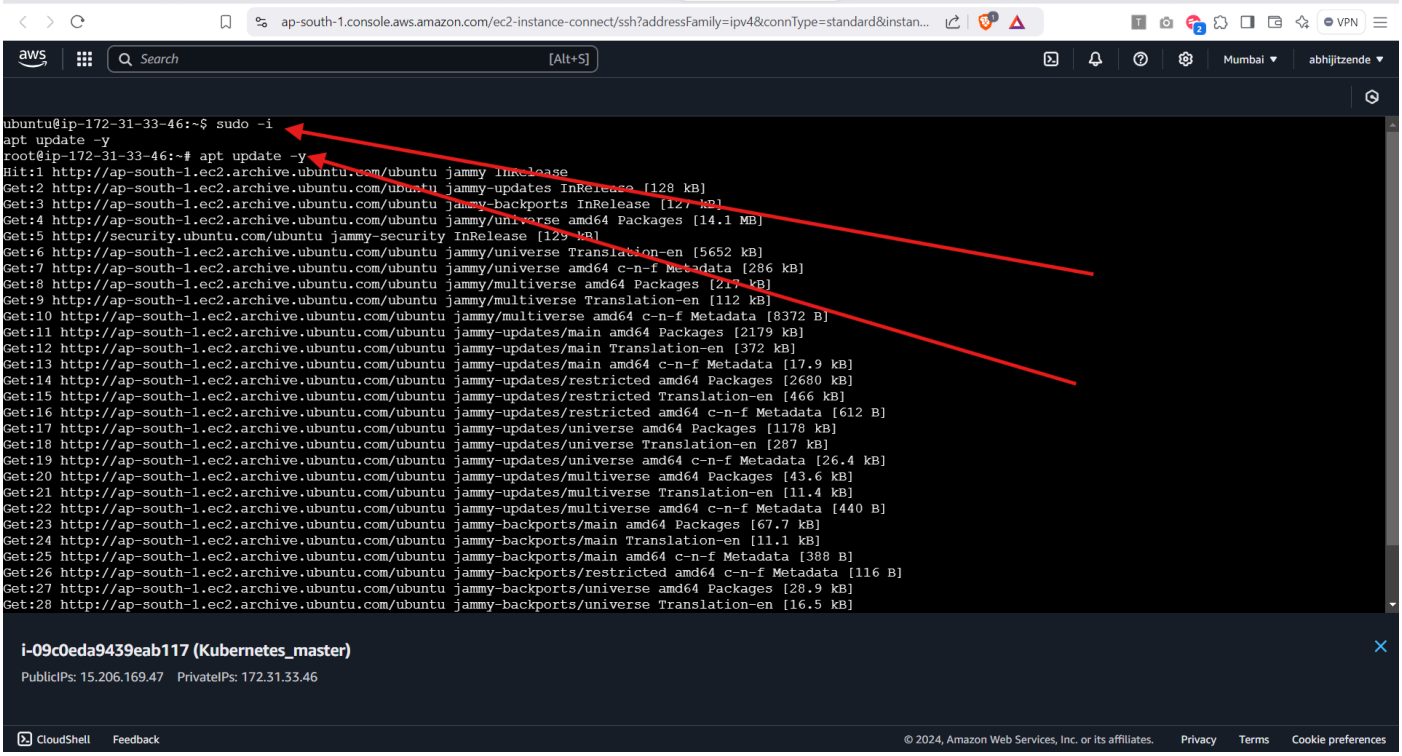
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instan...
aws
Search
[Alt+S]
Mumbai
abhijitzende
ubuntu@ip-172-31-33-46:~$ sudo -i
apt update -y
root@ip-172-31-33-46:~# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
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Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2179 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [372 kB]
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i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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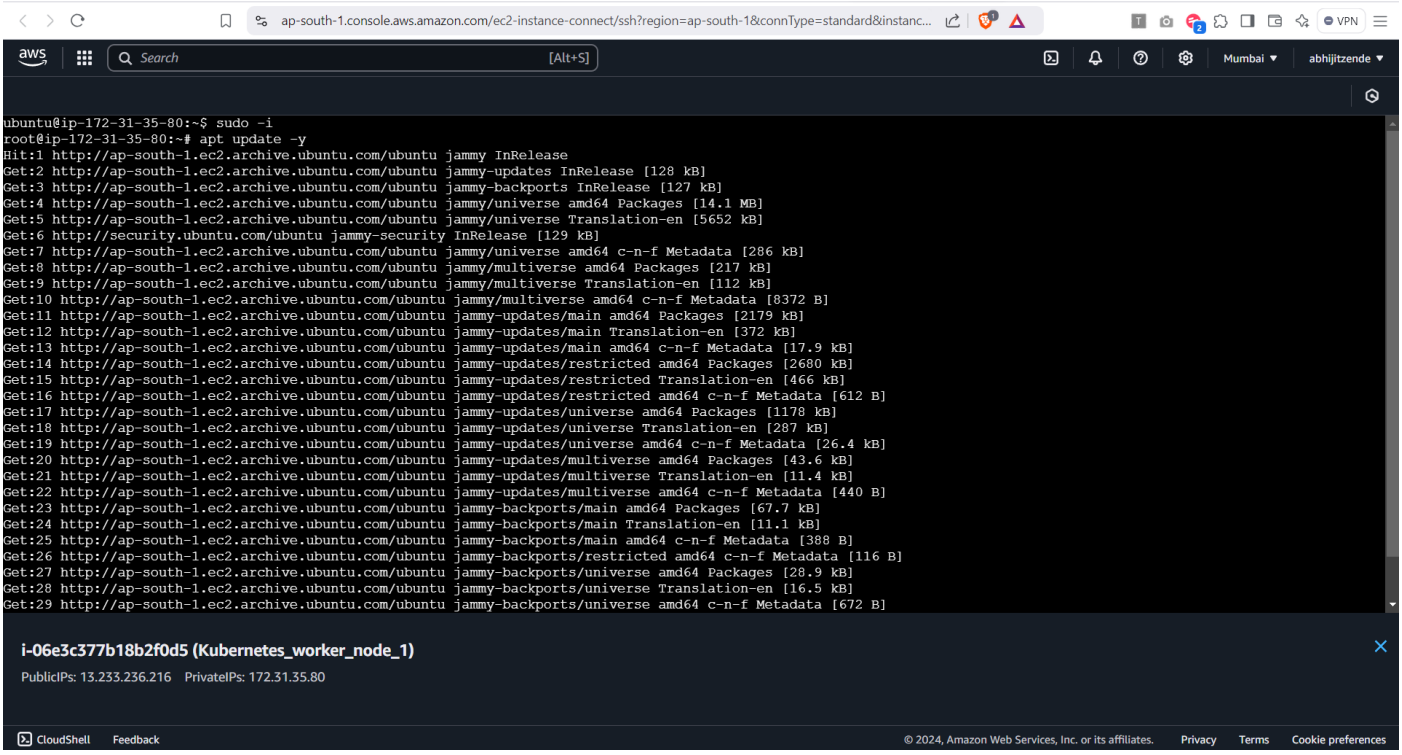
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
ubuntu@ip-172-31-35-80:~$ sudo -i
root@ip-172-31-35-80:~# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
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Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
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i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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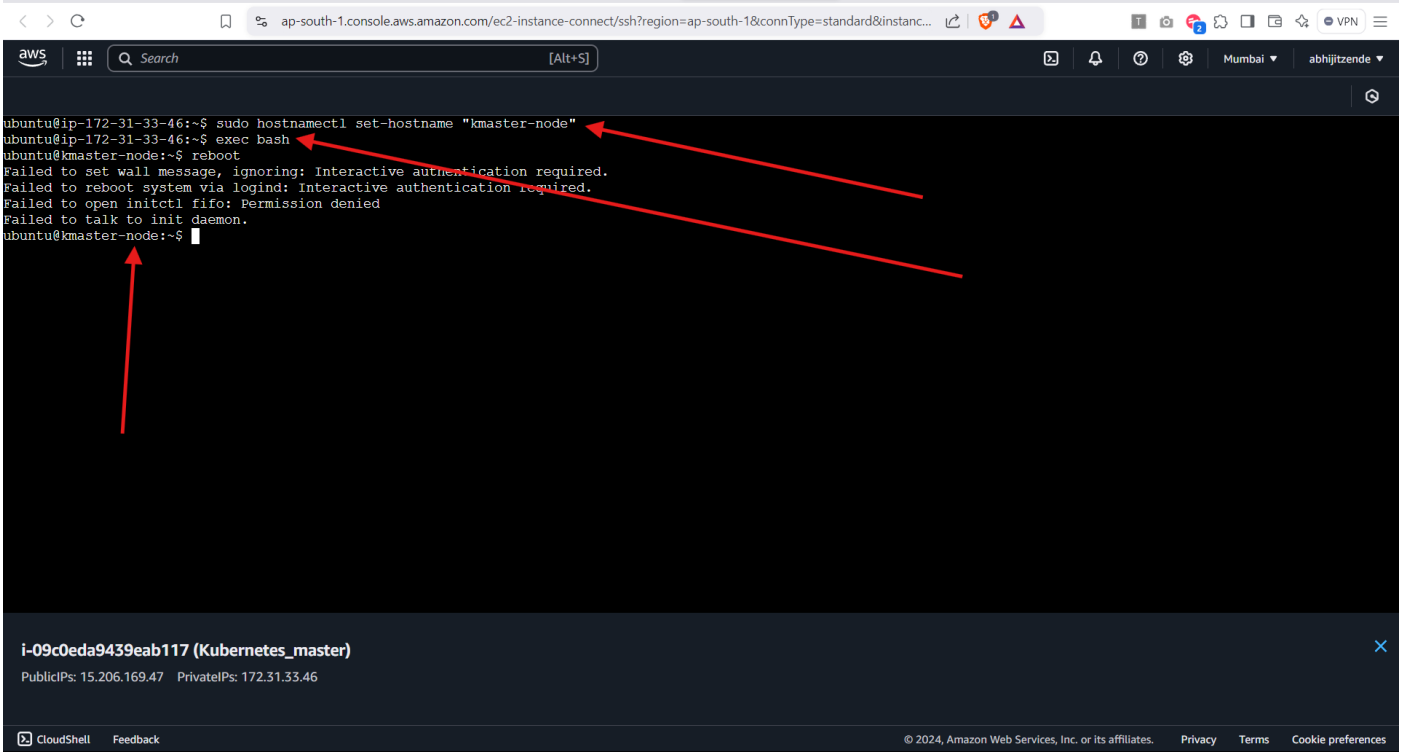
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
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Mumbai
abhijitzende
ubuntu@ip-172-31-33-46:~$ sudo hostnamectl set-hostname "kmaster-node"
ubuntu@ip-172-31-33-46:~$ exec bash
ubuntu@kmaster-node:~$ reboot
Failed to set wall message, ignoring: Interactive authentication required.
Failed to reboot system via logind: Interactive authentication required.
Failed to open initctl fifo: Permission denied
Failed to talk to init daemon.
ubuntu@kmaster-node:~$
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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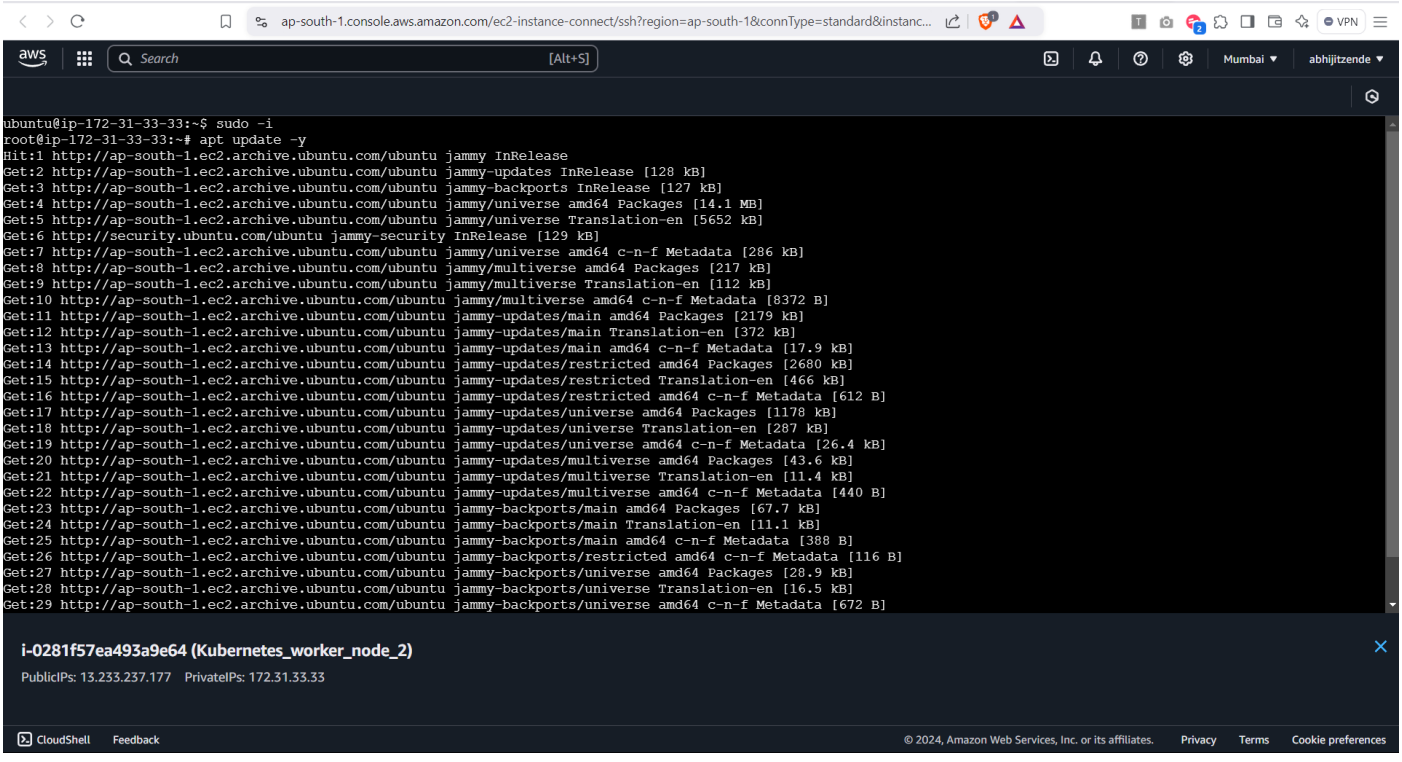
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
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Mumbai
abhijitzende
ubuntu@ip-172-31-33-33:~$ sudo -i
root@ip-172-31-33-33:~# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
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Get:6 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
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Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2179 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [372 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [17.9 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [2680 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [466 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [612 B]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1178 kB]
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i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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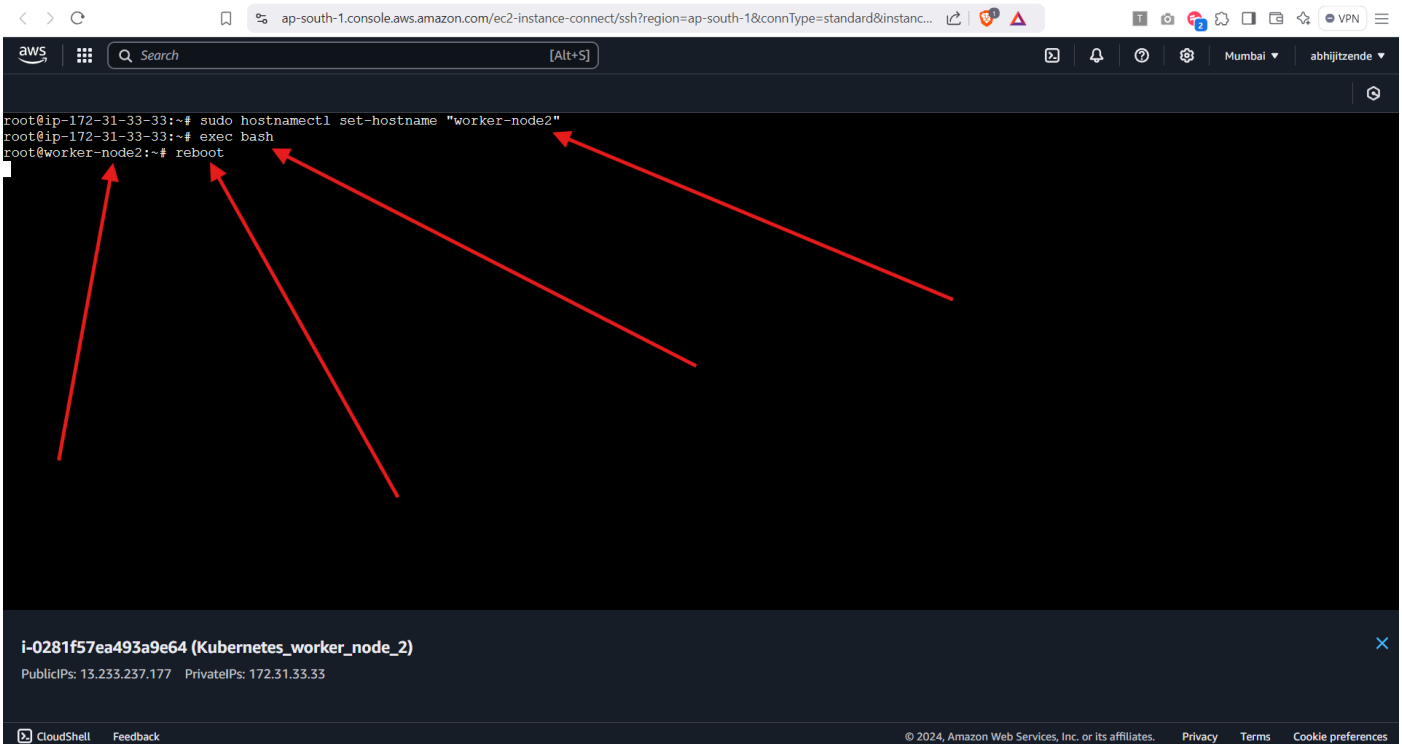
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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Mumbai
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root@ip-172-31-33-33:~# sudo hostnamectl set-hostname "worker-node2"
root@ip-172-31-33-33:~# exec bash
root@worker-node2:~# reboot
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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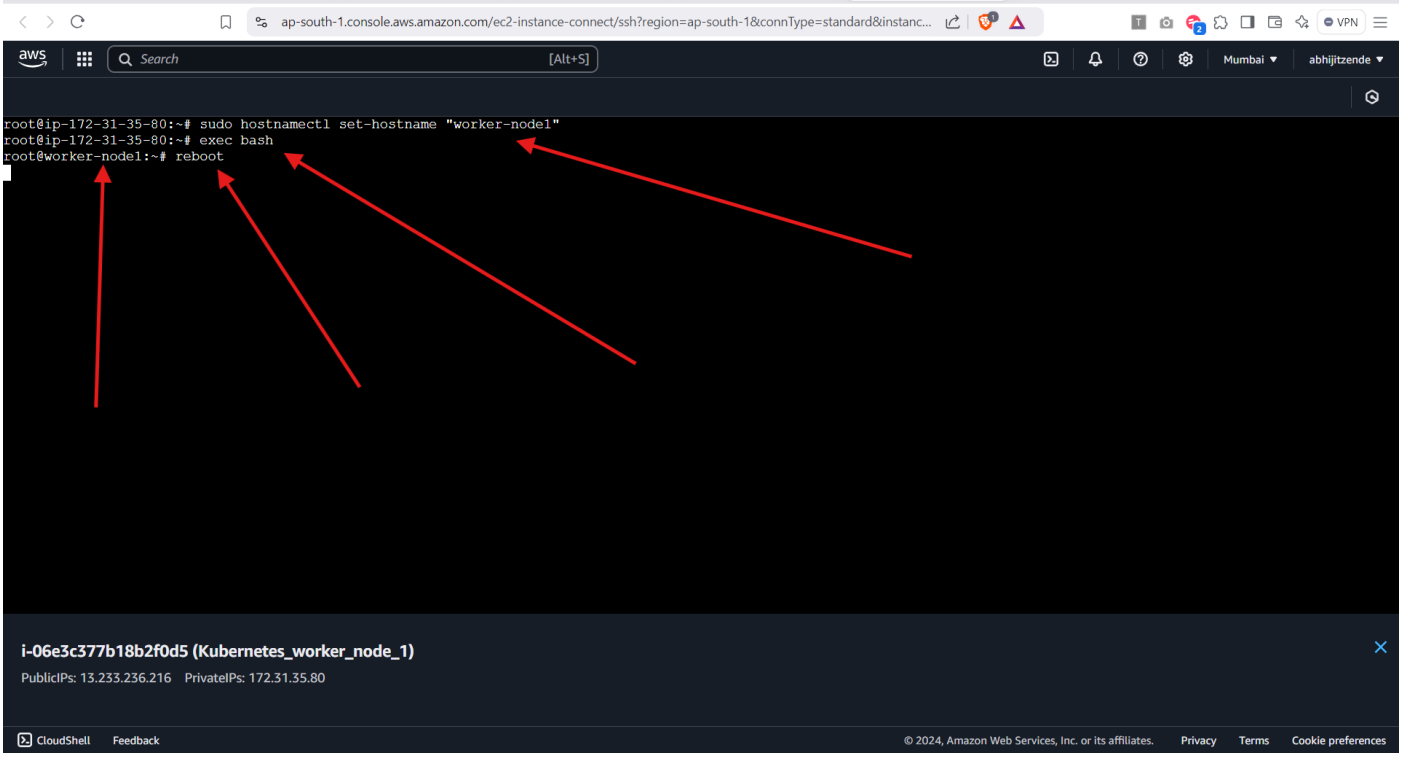
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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Mumbai
abhijitzende
root@ip-172-31-35-80:~# sudo hostnamectl set-hostname "worker-node1"
root@ip-172-31-35-80:~# exec bash
root@worker-node1:~# reboot
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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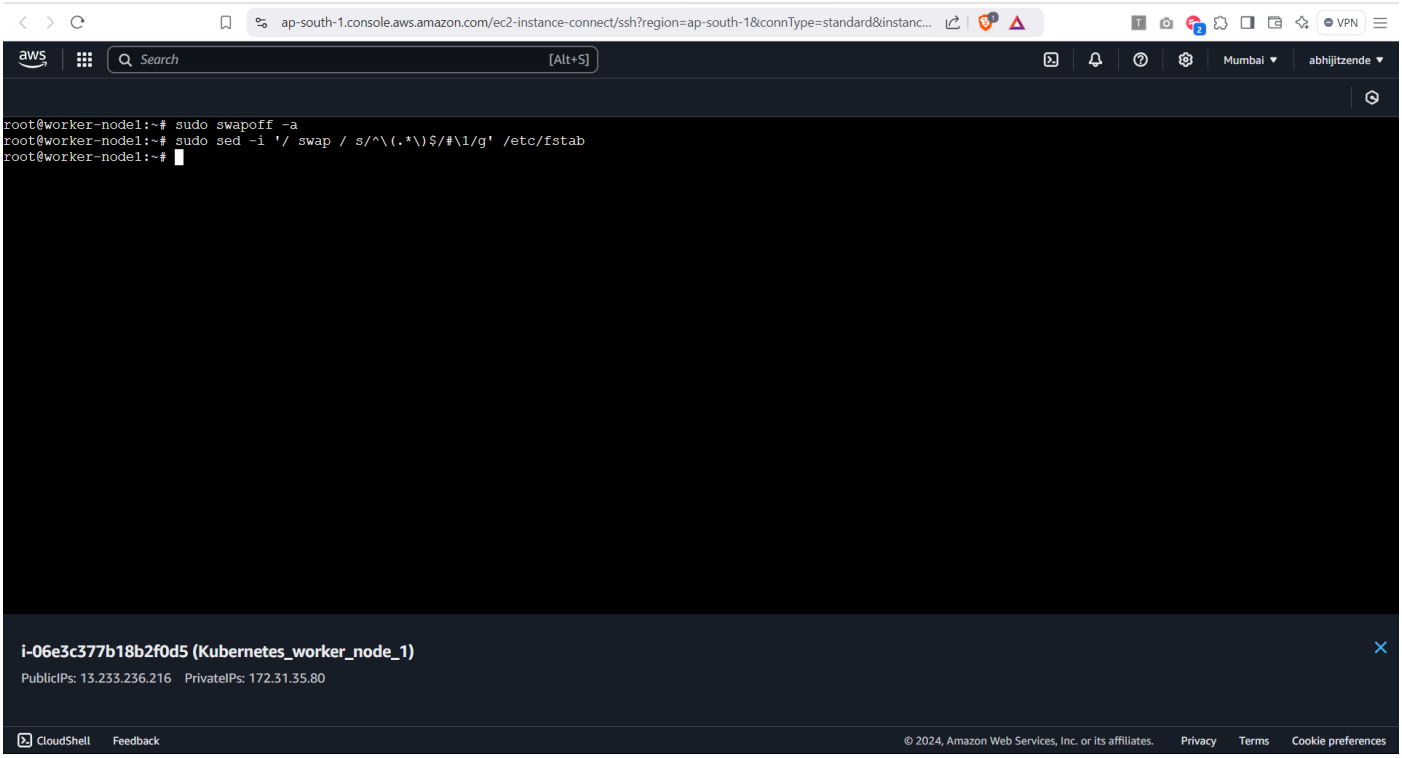
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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Mumbai
abhijitzende
root@worker-node1:~# sudo swapoff -a
root@worker-node1:~# sudo sed -i '/ swap / s/^\(.*\)$/#\1/g' /etc/fstab
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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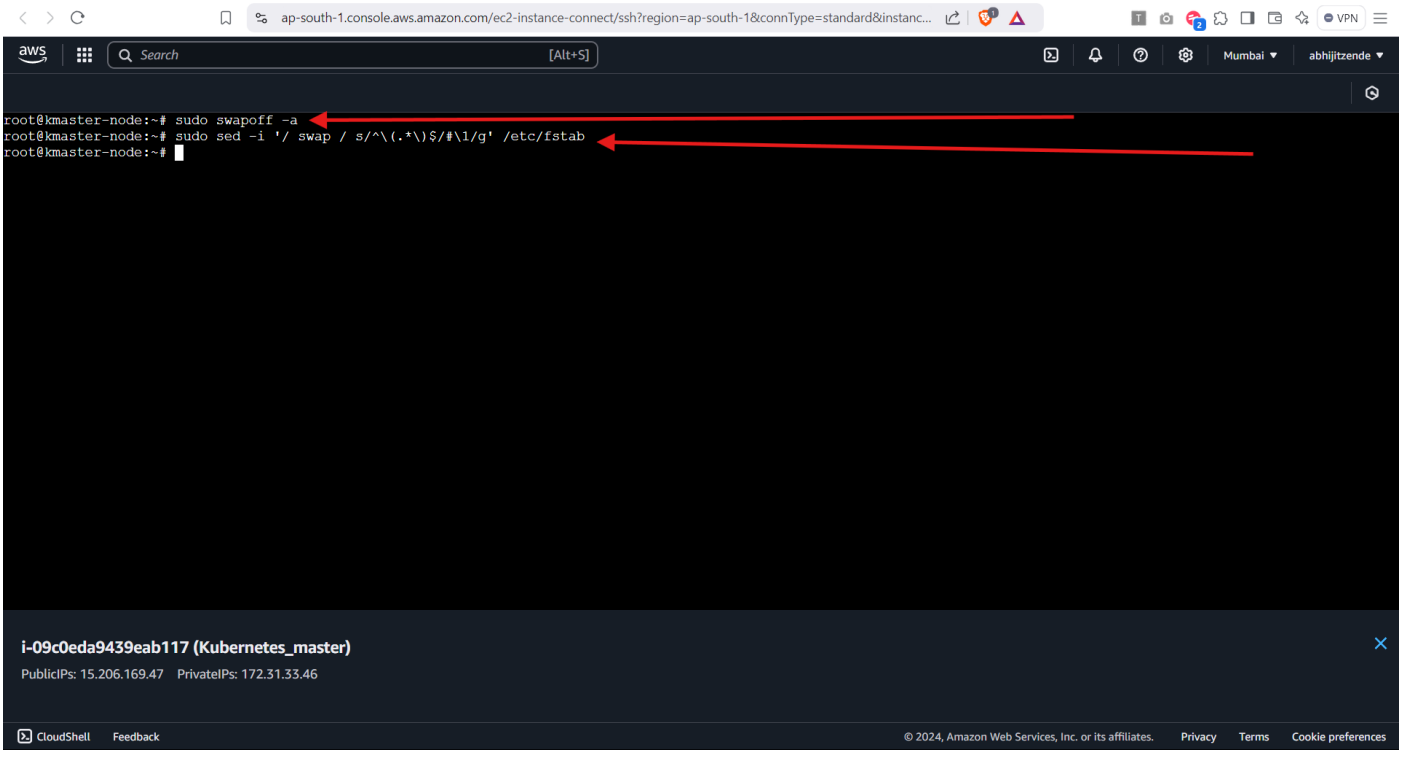
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
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Mumbai
abhijitzende
root@kmaster-node:~# sudo swapoff -a
root@kmaster-node:~# sudo sed -i '/ swap / s/^\(.*\)$/#\1/g' /etc/fstab
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
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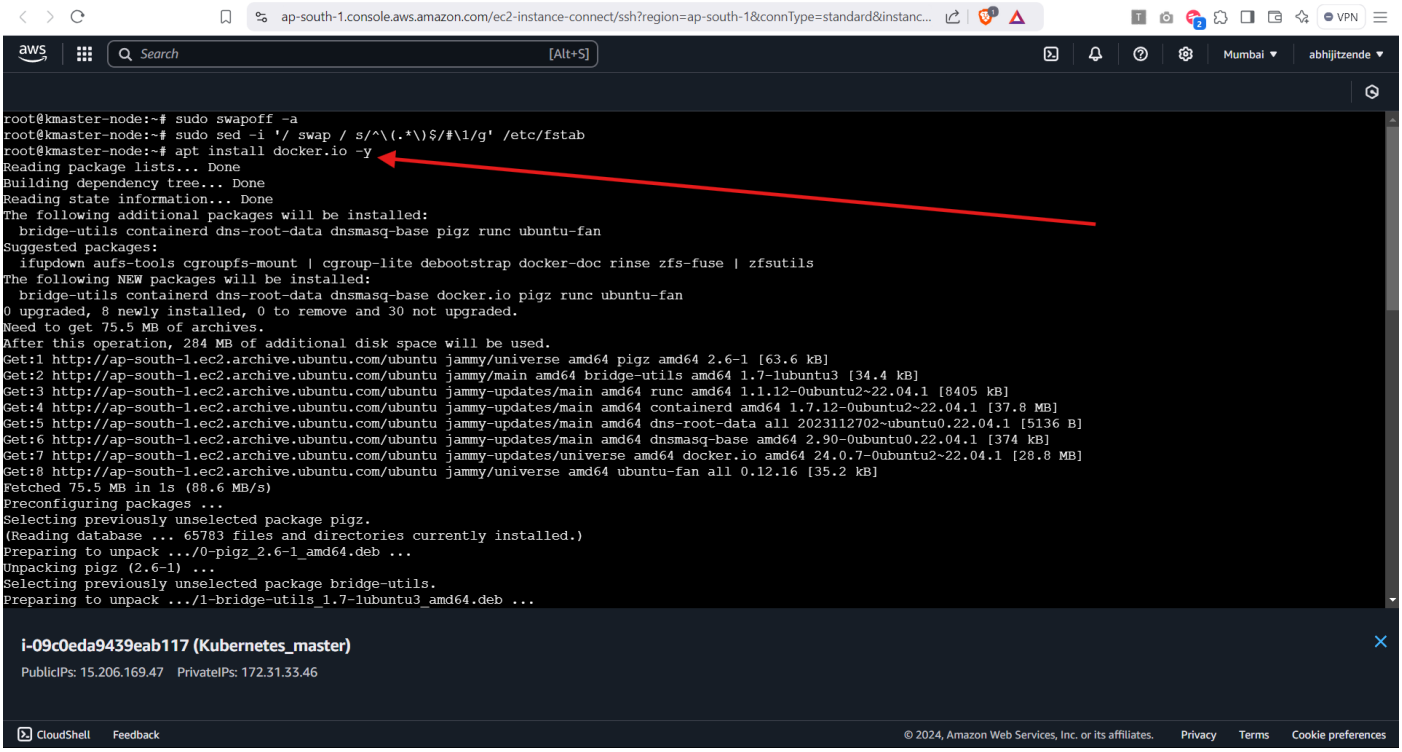
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@kmaster-node:~# sudo swapoff -a
root@kmaster-node:~# sudo sed -i '/ swap / s/^\(.*\)$/#\1/g' /etc/fstab
root@kmaster-node:~# apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 30 not upgraded.
Need to get 75.5 MB of archives.
After this operation, 284 MB of additional disk space will be used.
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Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.12-0ubuntu2~22.04.1 [8405 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.12-0ubuntu2~22.04.1 [37.8 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dns-root-data all 2023112702~ubuntu0.22.04.1 [5136 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.90-0ubuntu0.22.04.1 [374 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu2~22.04.1 [28.8 MB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 75.5 MB in 1s (88.6 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 65783 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
i-09c0eda9439eab117 (Kubernetes_master)
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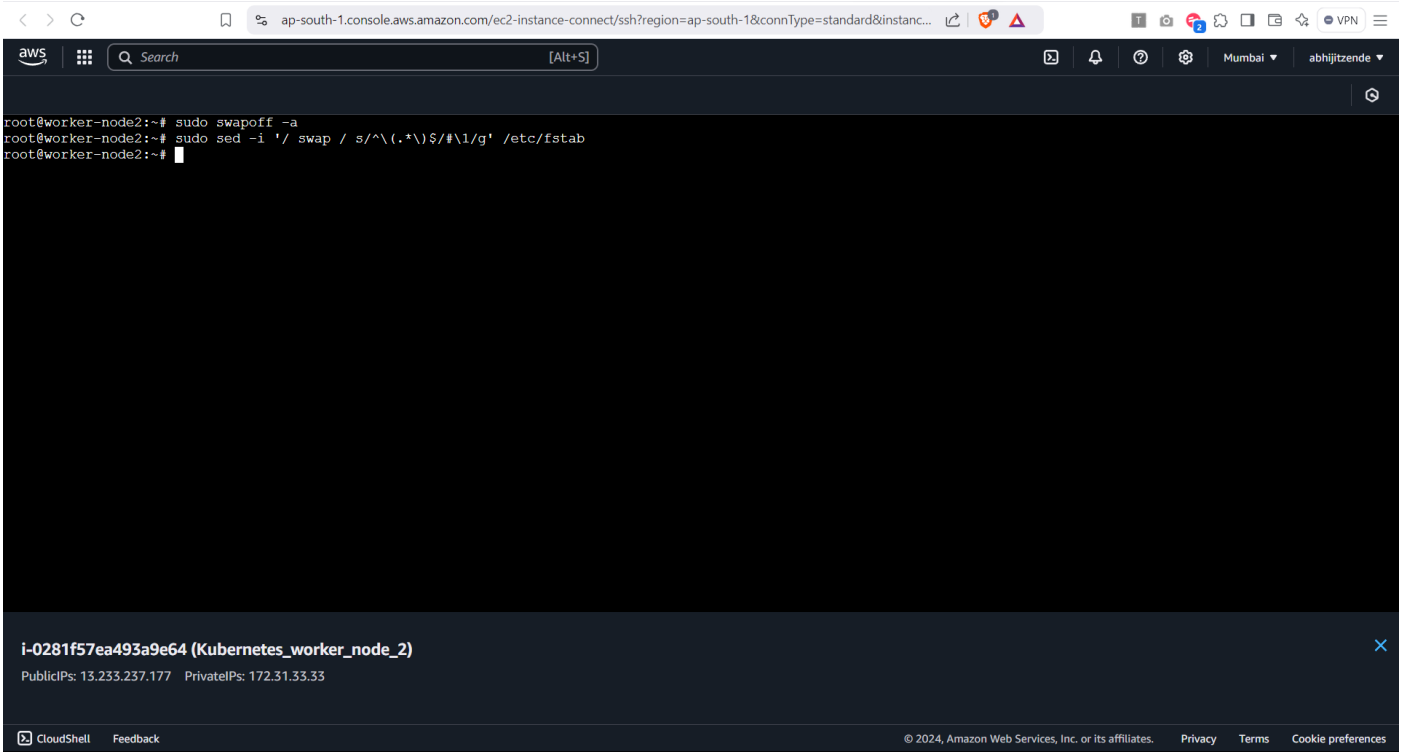
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node2:~# sudo swapoff -a
root@worker-node2:~# sudo sed -i '/ swap / s/^\(.*\)$/#\1/g' /etc/fstab
root@worker-node2:~#
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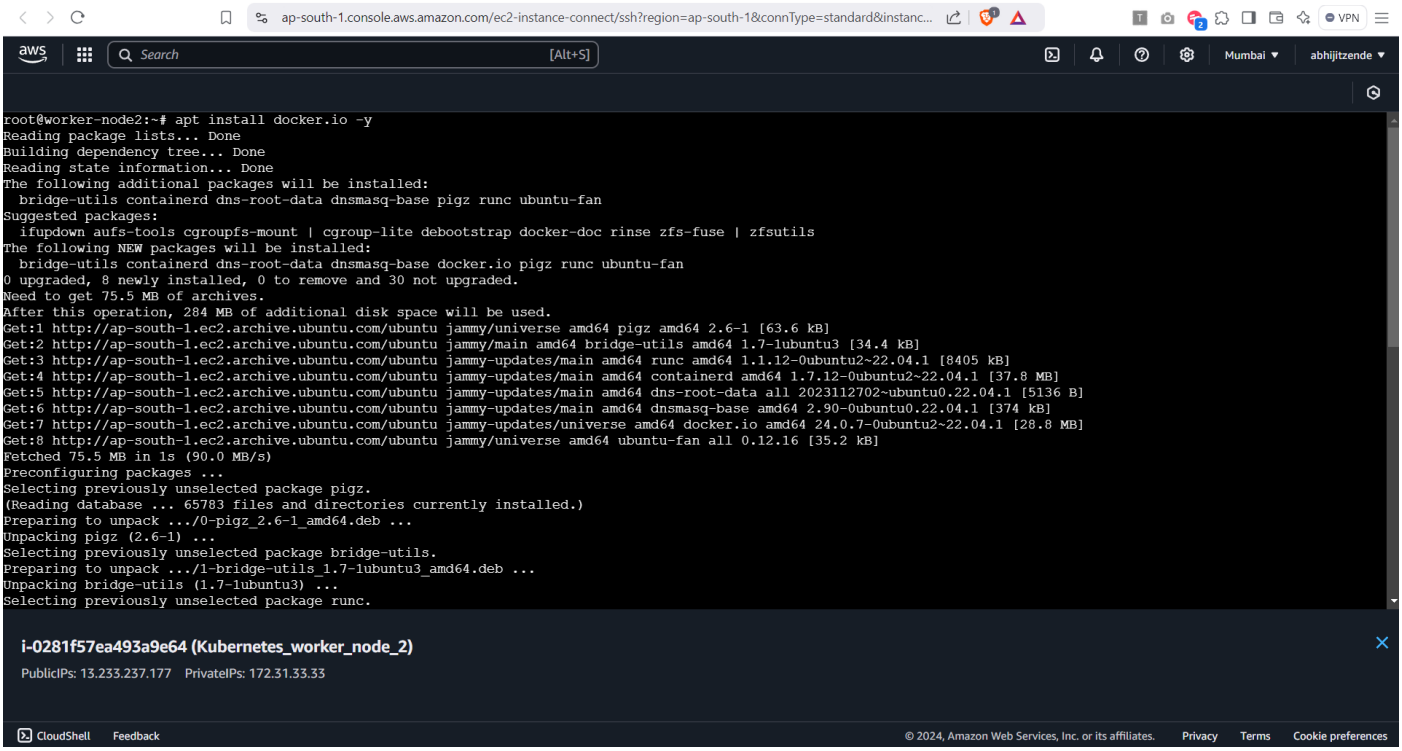
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node2:~# apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
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Suggested packages:
ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
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Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.12-0ubuntu2~22.04.1 [8405 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.12-0ubuntu2~22.04.1 [37.8 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dns-root-data all 2023112702~ubuntu0.22.04.1 [5136 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.90-0ubuntu0.22.04.1 [374 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu2~22.04.1 [28.8 MB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 75.5 MB in 1s (90.0 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 65783 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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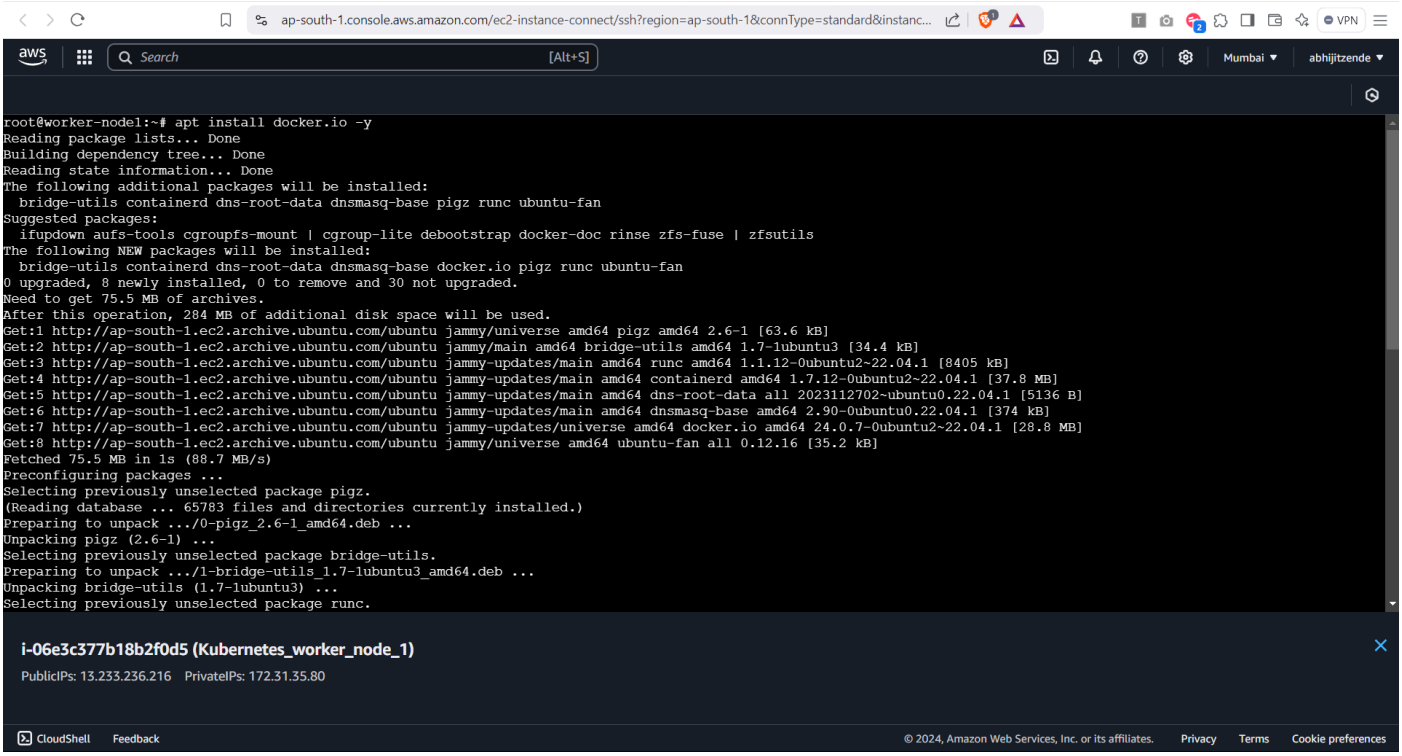
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node1:~# apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
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Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.12-0ubuntu2~22.04.1 [37.8 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dns-root-data all 2023112702~ubuntu0.22.04.1 [5136 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.90-0ubuntu0.22.04.1 [374 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu2~22.04.1 [28.8 MB]
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Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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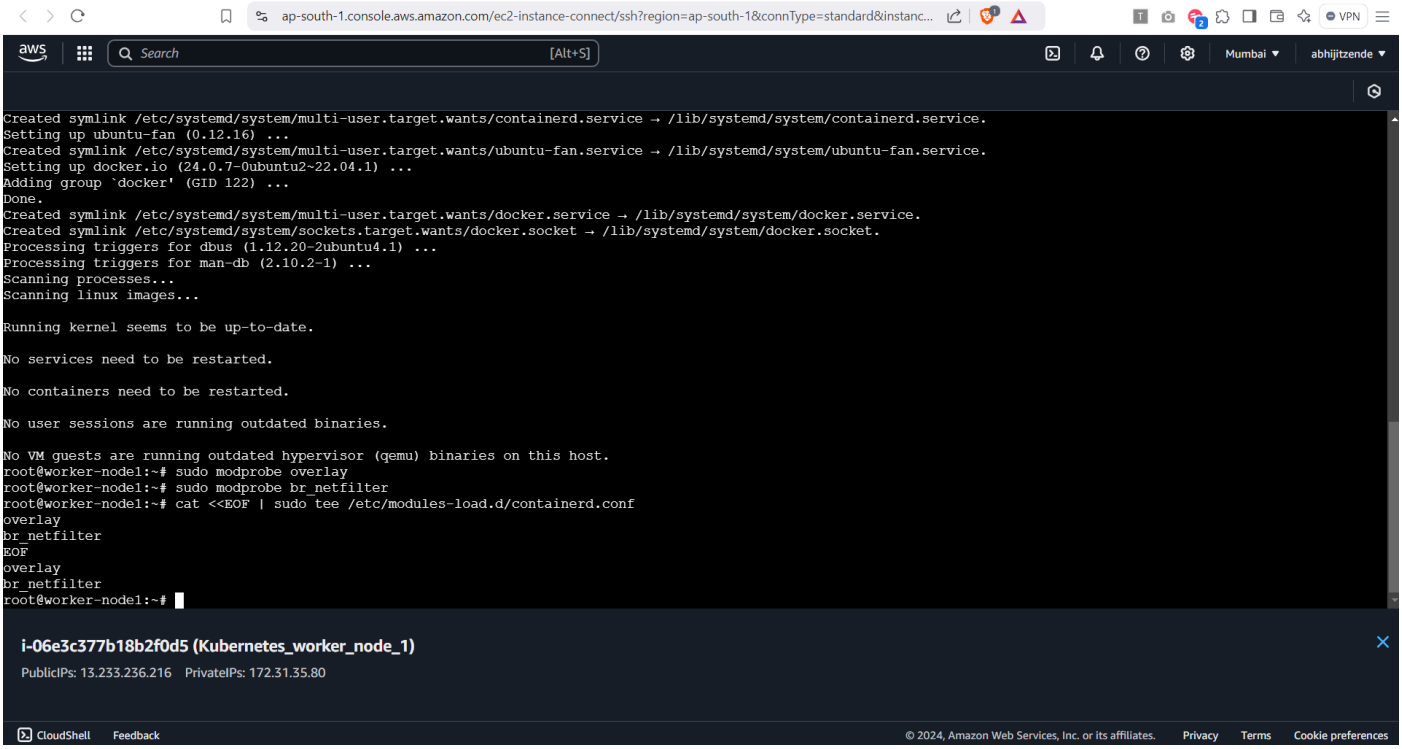
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (24.0.7-0ubuntu2~22.04.1) ...
Adding group `docker' (GID 122) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@worker-node1:~# sudo modprobe overlay
root@worker-node1:~# sudo modprobe br_netfilter
root@worker-node1:~# cat <<EOF | sudo tee /etc/modules-load.d/containerd.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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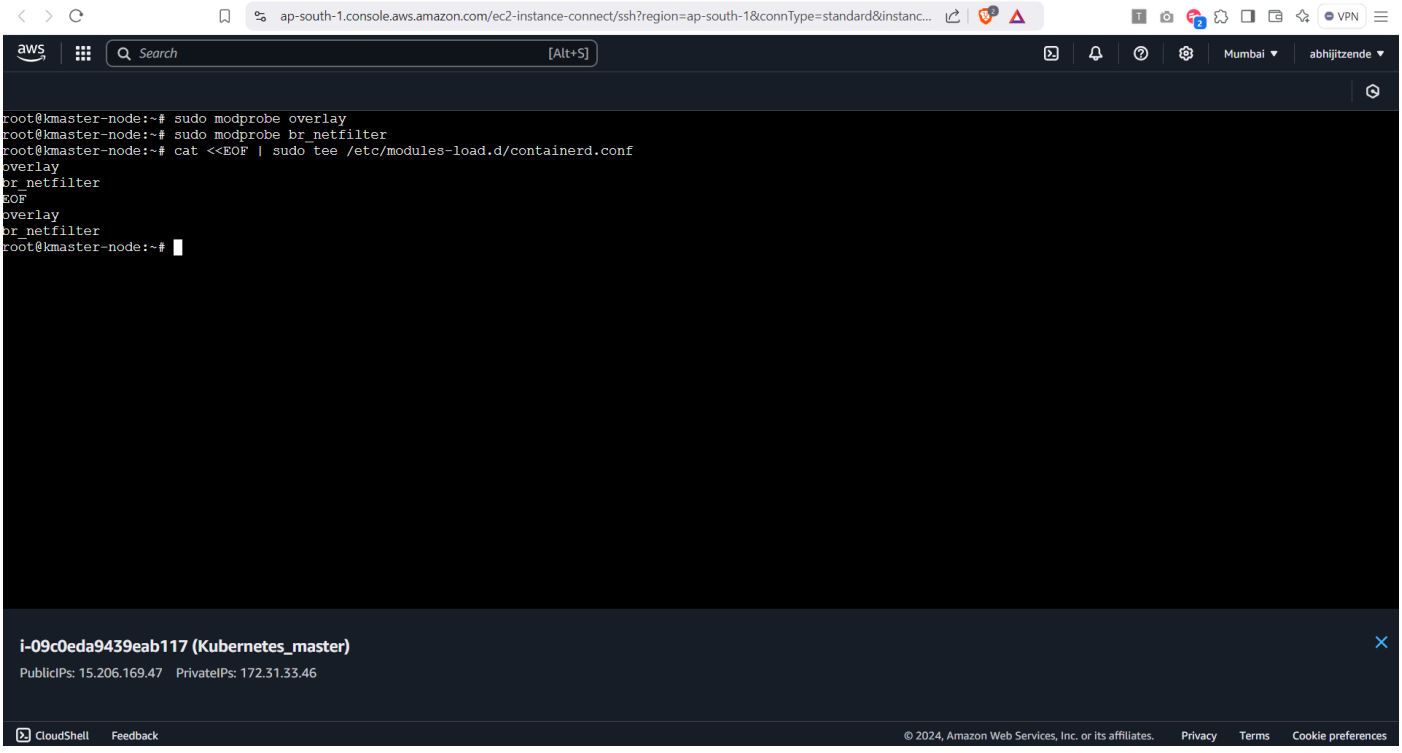
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@kmaster-node:~# sudo modprobe overlay
root@kmaster-node:~# sudo modprobe br_netfilter
root@kmaster-node:~# cat <<EOF | sudo tee /etc/modules-load.d/containerd.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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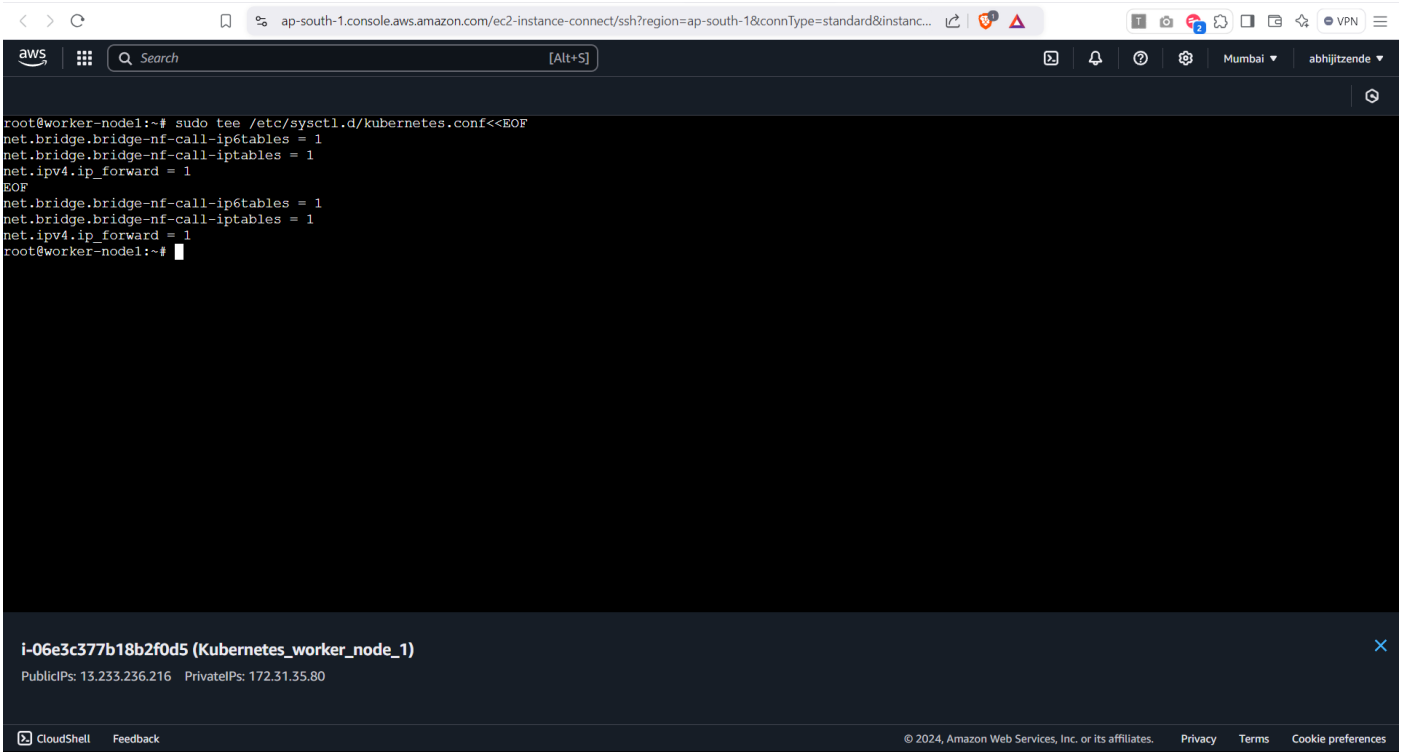
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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root@worker-node1:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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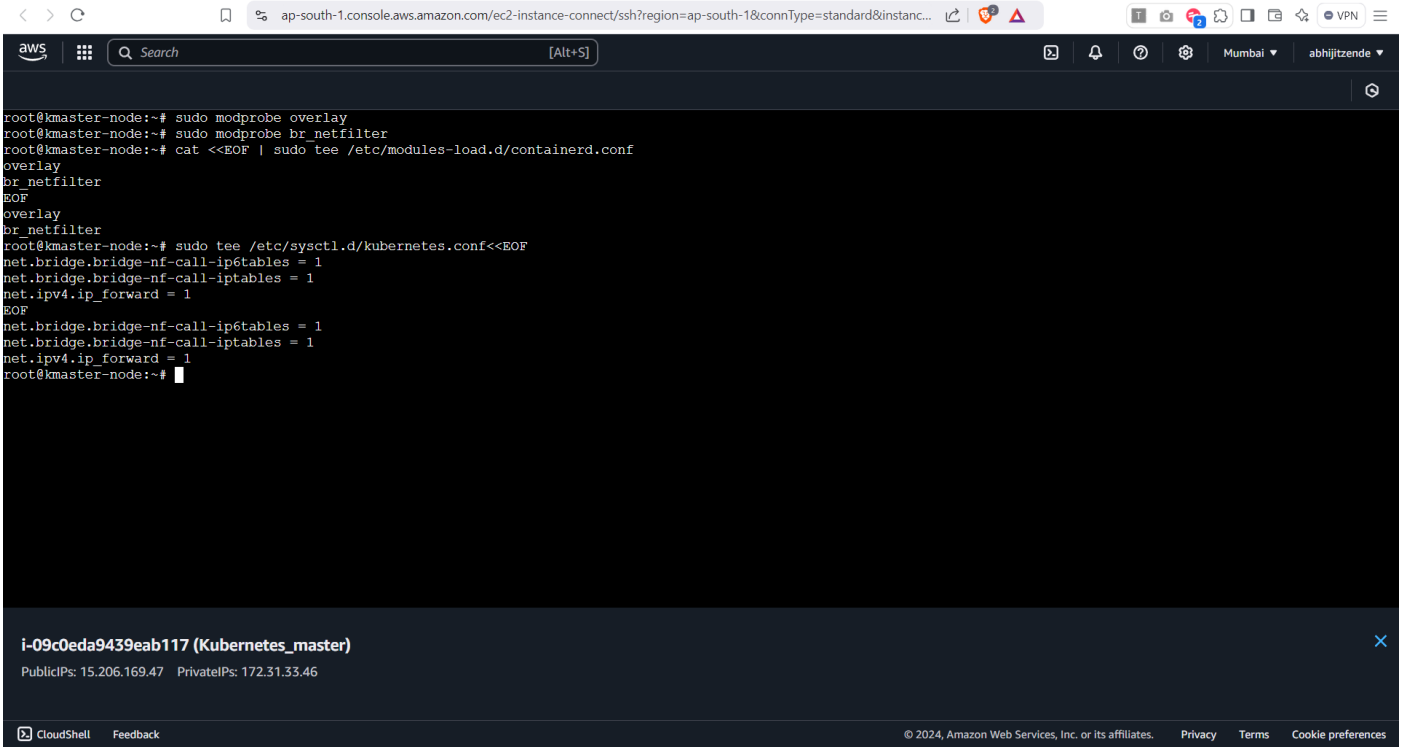
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aws
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[Alt+S]
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root@kmaster-node:~# sudo modprobe overlay
root@kmaster-node:~# sudo modprobe br_netfilter
root@kmaster-node:~# cat <<EOF | sudo tee /etc/modules-load.d/containerd.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
root@kmaster-node:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
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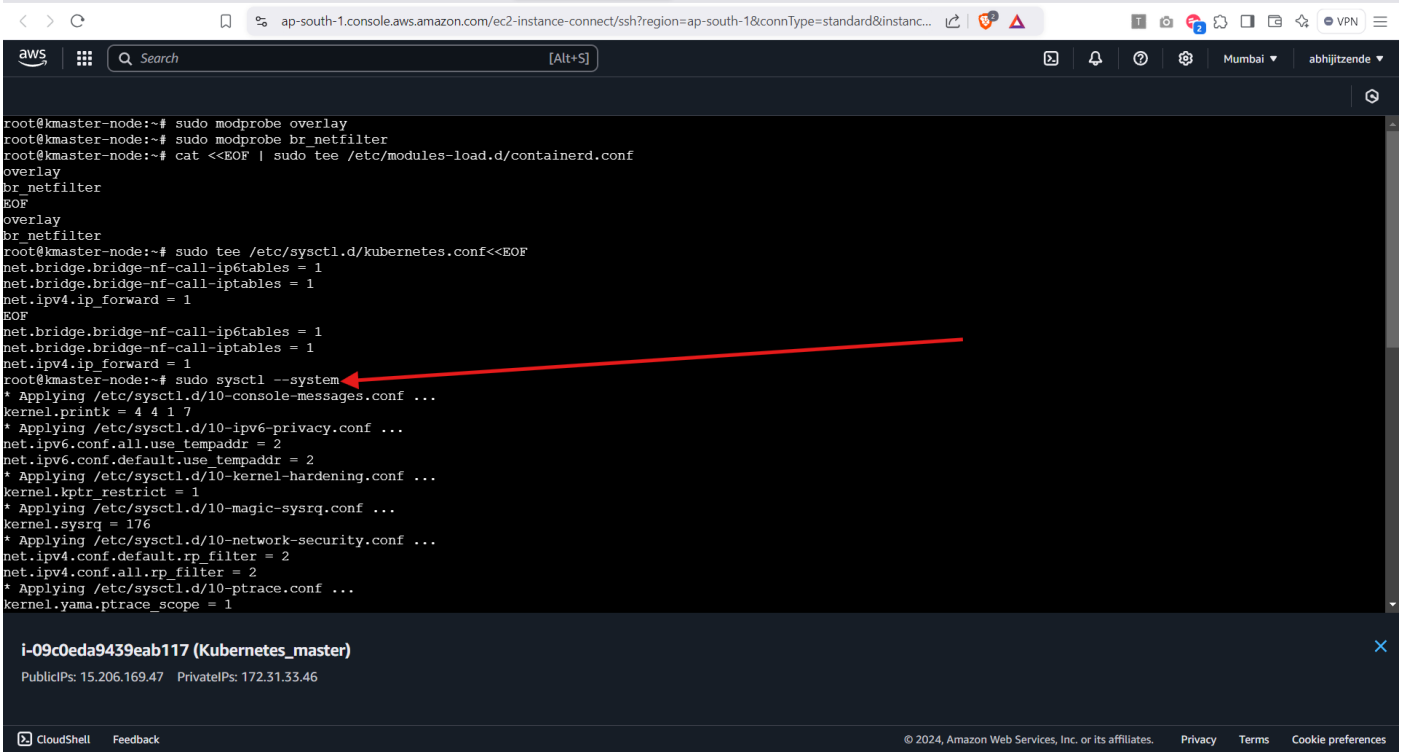
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aws
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Mumbai
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root@kmaster-node:~# sudo modprobe overlay
root@kmaster-node:~# sudo modprobe br_netfilter
root@kmaster-node:~# cat <<EOF | sudo tee /etc/modules-load.d/containerd.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
root@kmaster-node:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@kmaster-node:~# sudo sysctl --system
* Applying /etc/sysctl.d/10-console-messages.conf ...
kernel.printk = 4 4 1 7
* Applying /etc/sysctl.d/10-ipv6-privacy.conf ...
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
* Applying /etc/sysctl.d/10-kernel-hardening.conf ...
kernel.kptr_restrict = 1
* Applying /etc/sysctl.d/10-magic-sysrq.conf ...
kernel.sysrq = 176
* Applying /etc/sysctl.d/10-network-security.conf ...
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
* Applying /etc/sysctl.d/10-ptrace.conf ...
kernel.yama.ptrace_scope = 1
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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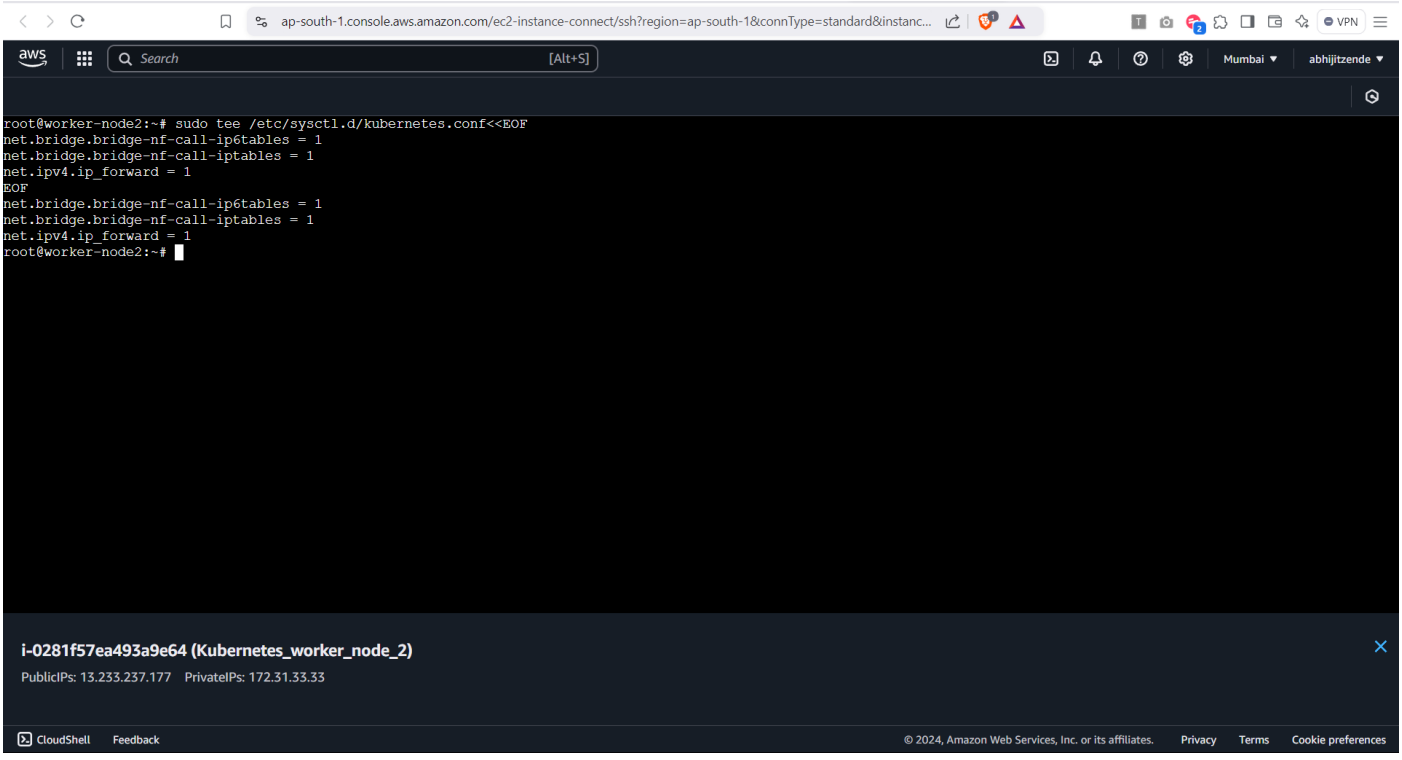
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node2:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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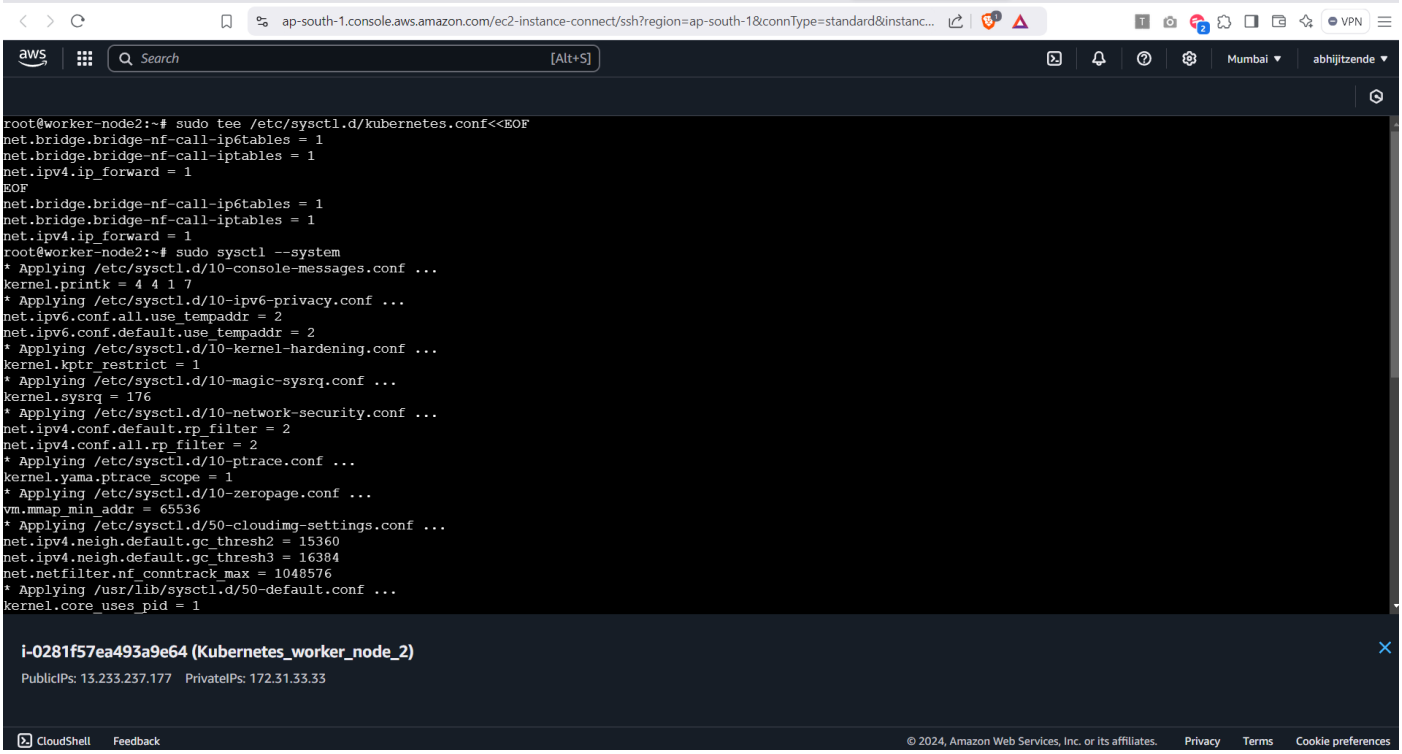
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node2:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@worker-node2:~# sudo sysctl --system
* Applying /etc/sysctl.d/10-console-messages.conf ...
kernel.printk = 4 4 1 7
* Applying /etc/sysctl.d/10-ipv6-privacy.conf ...
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
* Applying /etc/sysctl.d/10-kernel-hardening.conf ...
kernel.kptr_restrict = 1
* Applying /etc/sysctl.d/10-magic-sysrq.conf ...
kernel.sysrq = 176
* Applying /etc/sysctl.d/10-network-security.conf ...
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
* Applying /etc/sysctl.d/10-ptrace.conf ...
kernel.yama.ptrace_scope = 1
* Applying /etc/sysctl.d/10-zeropage.conf ...
vm.mmap_min_addr = 65536
* Applying /etc/sysctl.d/50-cloudimg-settings.conf ...
net.ipv4.neigh.default.gc_thresh2 = 15360
net.ipv4.neigh.default.gc_thresh3 = 16384
net.netfilter.nf_conntrack_max = 1048576
* Applying /usr/lib/sysctl.d/50-default.conf ...
kernel.core_uses_pid = 1
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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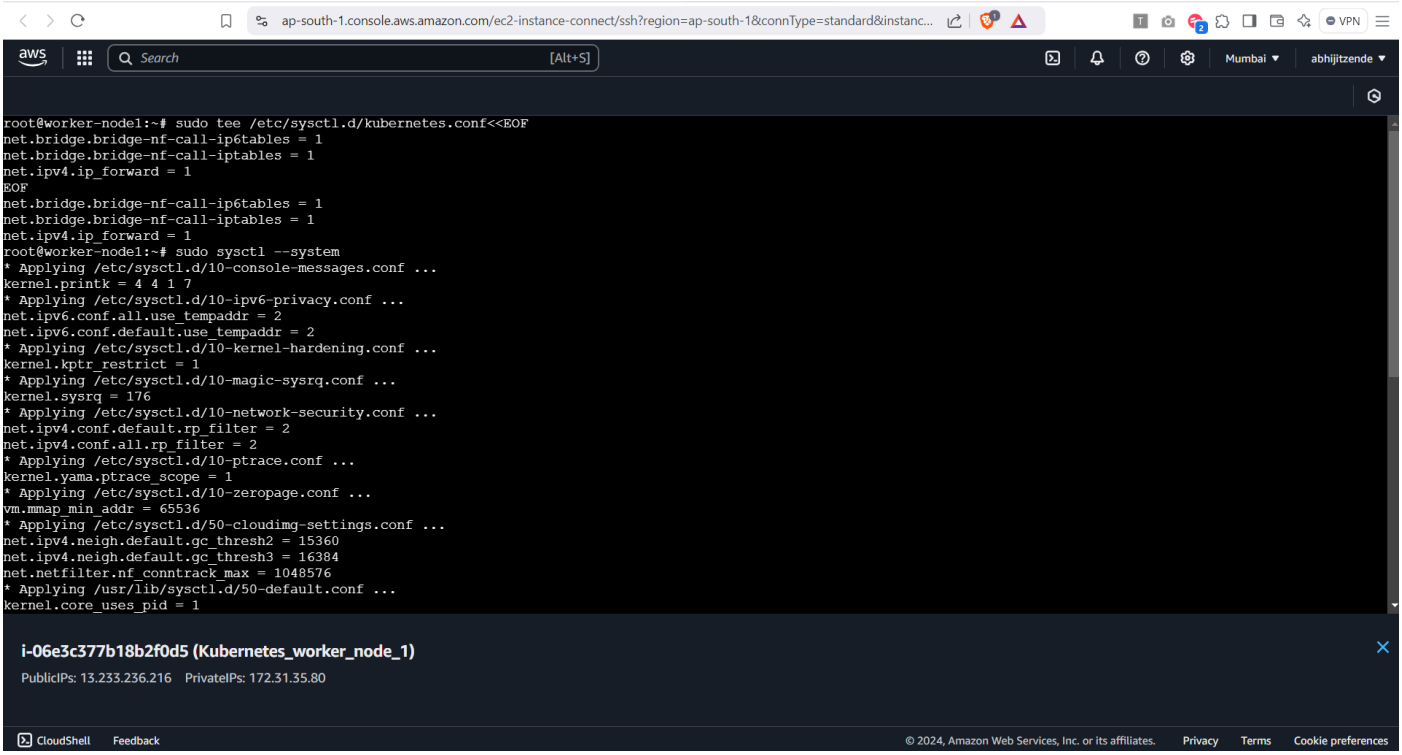
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node1:~# sudo tee /etc/sysctl.d/kubernetes.conf<<EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
EOF
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
root@worker-node1:~# sudo sysctl --system
* Applying /etc/sysctl.d/10-console-messages.conf ...
kernel.printk = 4 4 1 7
* Applying /etc/sysctl.d/10-ipv6-privacy.conf ...
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
* Applying /etc/sysctl.d/10-kernel-hardening.conf ...
kernel.kptr_restrict = 1
* Applying /etc/sysctl.d/10-magic-sysrq.conf ...
kernel.sysrq = 176
* Applying /etc/sysctl.d/10-network-security.conf ...
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
* Applying /etc/sysctl.d/10-ptrace.conf ...
kernel.yama.ptrace_scope = 1
* Applying /etc/sysctl.d/10-zeropage.conf ...
vm.mmap_min_addr = 65536
* Applying /etc/sysctl.d/50-cloudimg-settings.conf ...
net.ipv4.neigh.default.gc_thresh2 = 15360
net.ipv4.neigh.default.gc_thresh3 = 16384
net.netfilter.nf_conntrack_max = 1048576
* Applying /usr/lib/sysctl.d/50-default.conf ...
kernel.core_uses_pid = 1
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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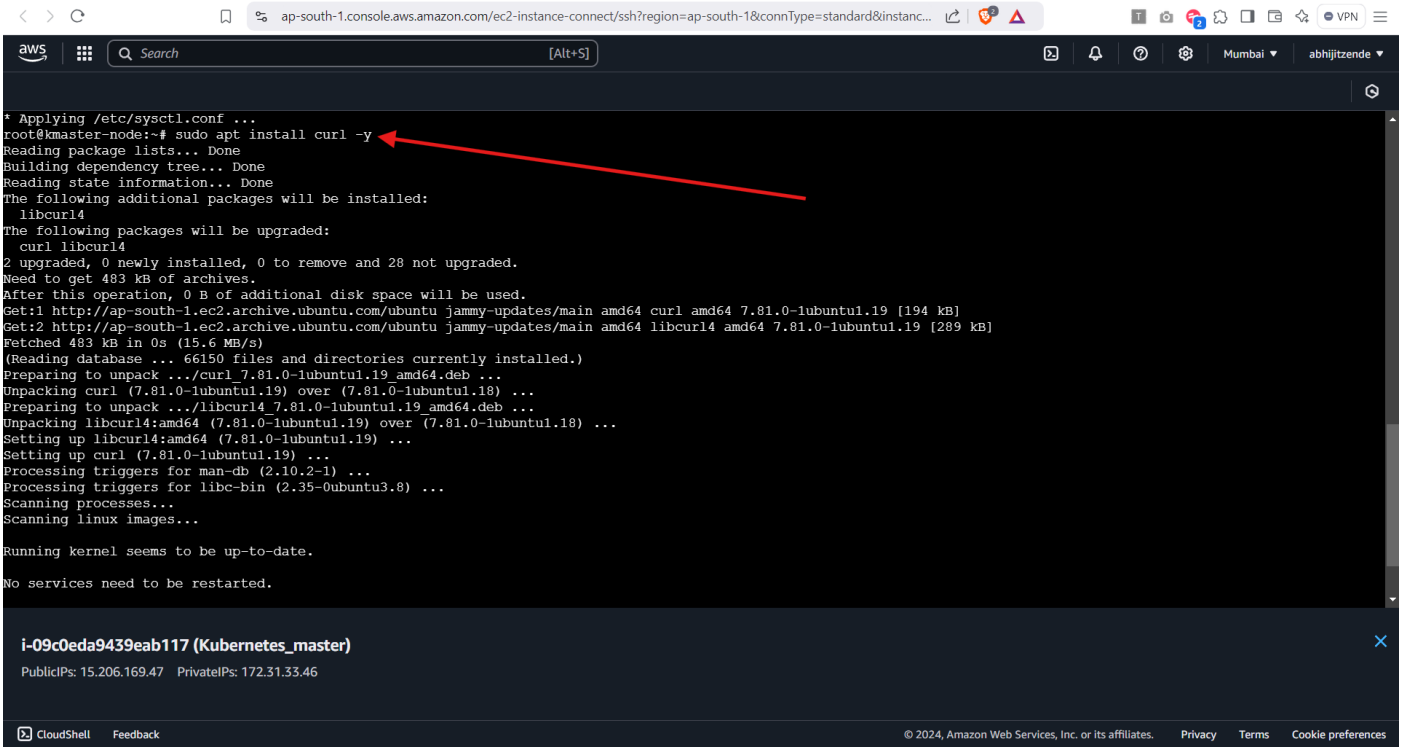
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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* Applying /etc/sysctl.conf ...
root@kmaster-node:~# sudo apt install curl -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libcurl4
The following packages will be upgraded:
curl libcurl4
2 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
Need to get 483 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.19 [194 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.19 [289 kB]
Fetched 483 kB in 0s (15.6 MB/s)
(Reading database ... 66150 files and directories currently installed.)
Preparing to unpack .../curl_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking curl (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Preparing to unpack .../libcurl4_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.19) ...
Setting up curl (7.81.0-1ubuntu1.19) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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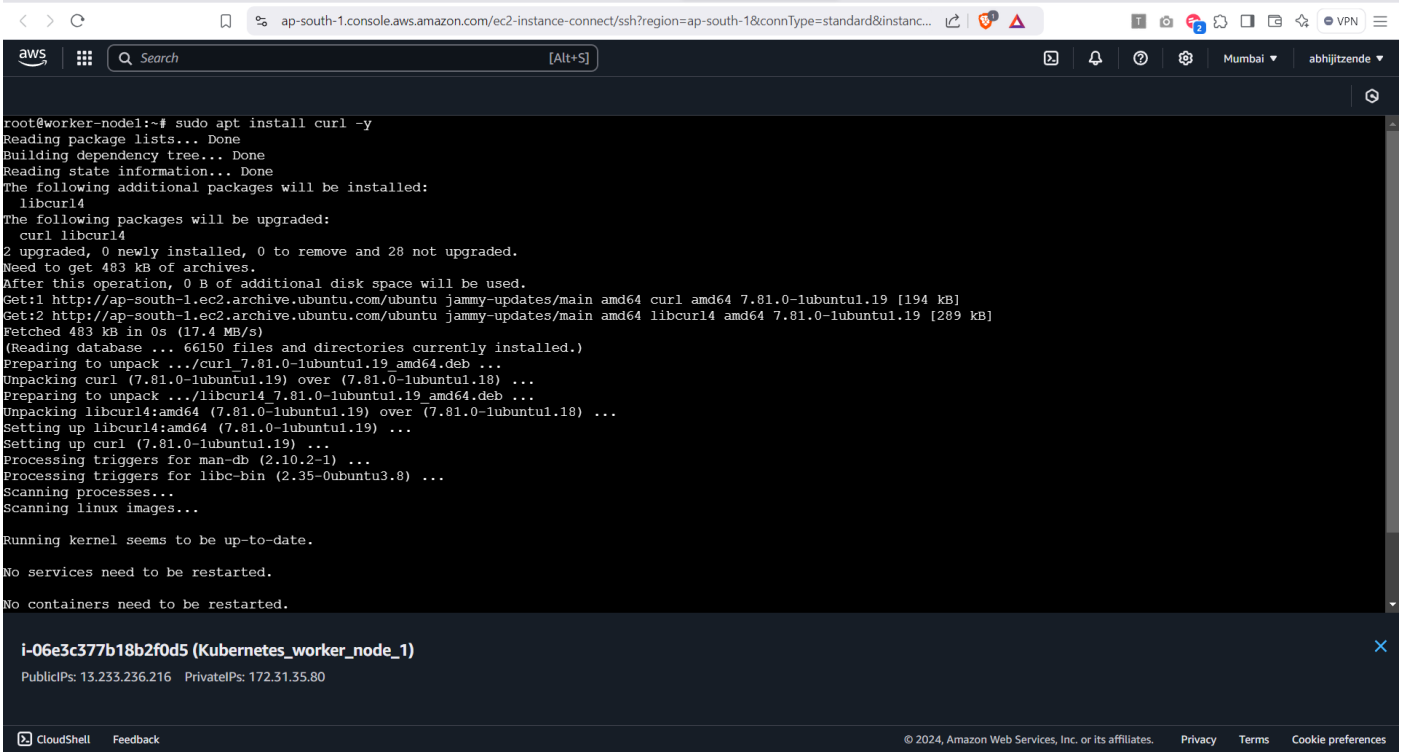
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node1:~# sudo apt install curl -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libcurl4
The following packages will be upgraded:
curl libcurl4
2 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
Need to get 483 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.19 [194 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.19 [289 kB]
Fetched 483 kB in 0s (17.4 MB/s)
(Reading database ... 66150 files and directories currently installed.)
Preparing to unpack .../curl_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking curl (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Preparing to unpack .../libcurl4_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.19) ...
Setting up curl (7.81.0-1ubuntu1.19) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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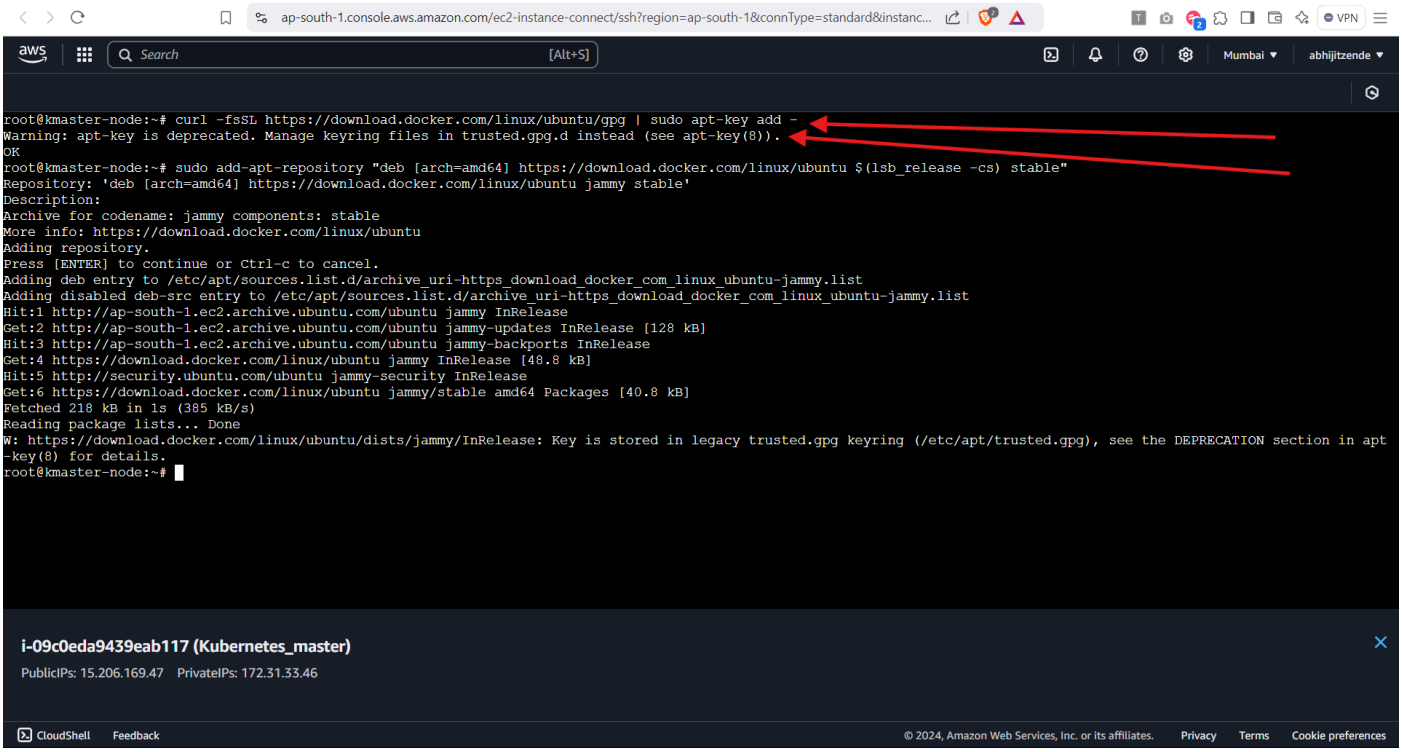
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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root@kmaster-node:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
root@kmaster-node:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu jammy stable'
Description:
Archive for codename: jammy components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:6 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [40.8 kB]
Fetched 218 kB in 1s (385 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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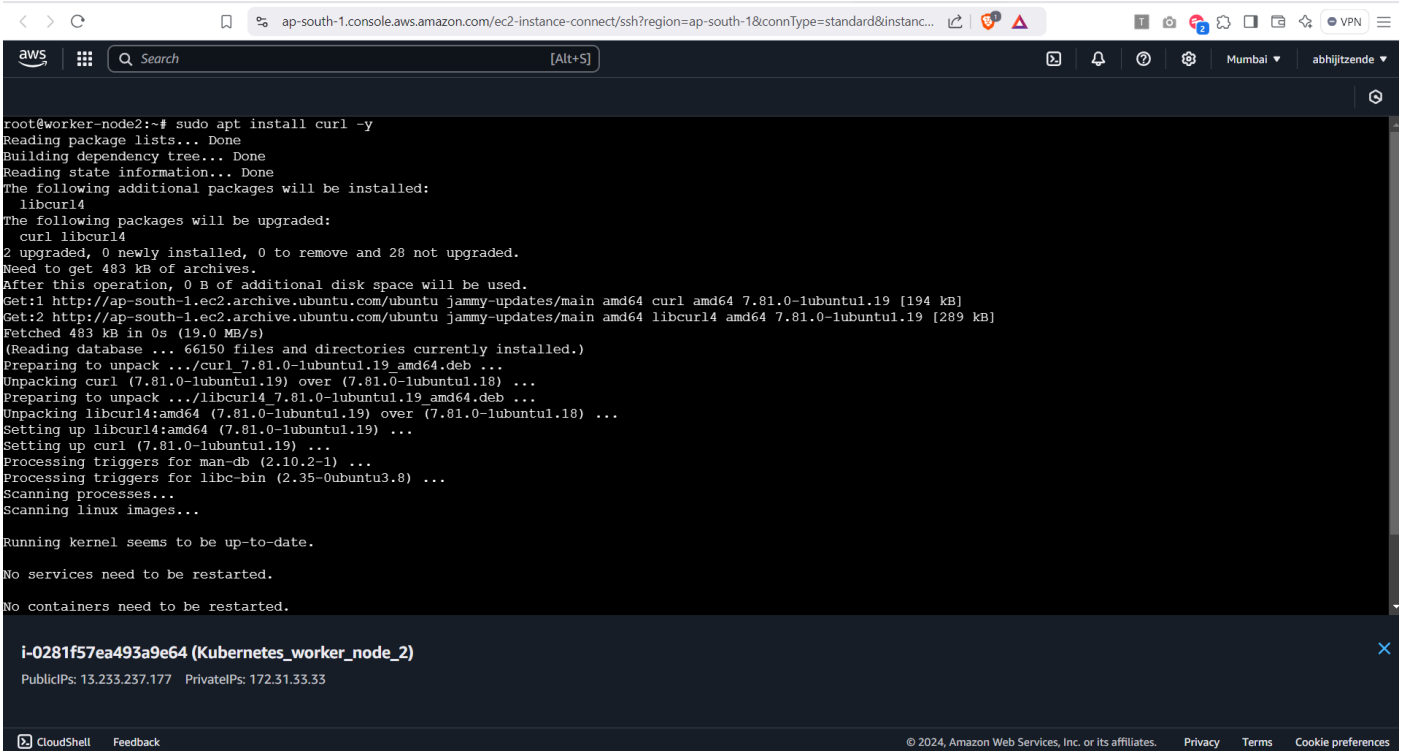
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
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root@worker-node2:~# sudo apt install curl -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libcurl4
The following packages will be upgraded:
curl libcurl4
2 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
Need to get 483 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.19 [194 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.19 [289 kB]
Fetched 483 kB in 0s (19.0 MB/s)
(Reading database ... 66150 files and directories currently installed.)
Preparing to unpack .../curl_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking curl (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Preparing to unpack .../libcurl4_7.81.0-1ubuntu1.19_amd64.deb ...
Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.19) over (7.81.0-1ubuntu1.18) ...
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.19) ...
Setting up curl (7.81.0-1ubuntu1.19) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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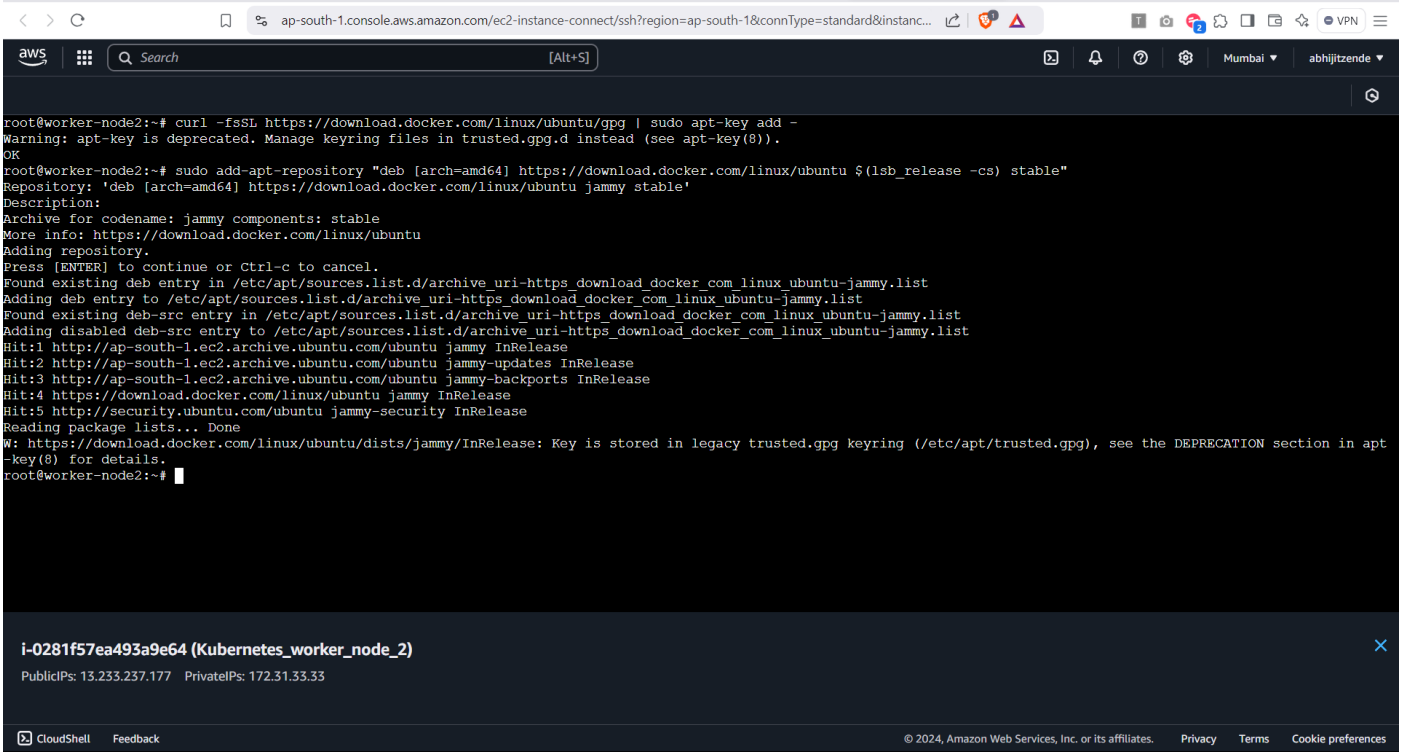
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
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root@worker-node2:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
root@worker-node2:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu jammy stable'
Description:
Archive for codename: jammy components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Found existing deb entry in /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Found existing deb-src entry in /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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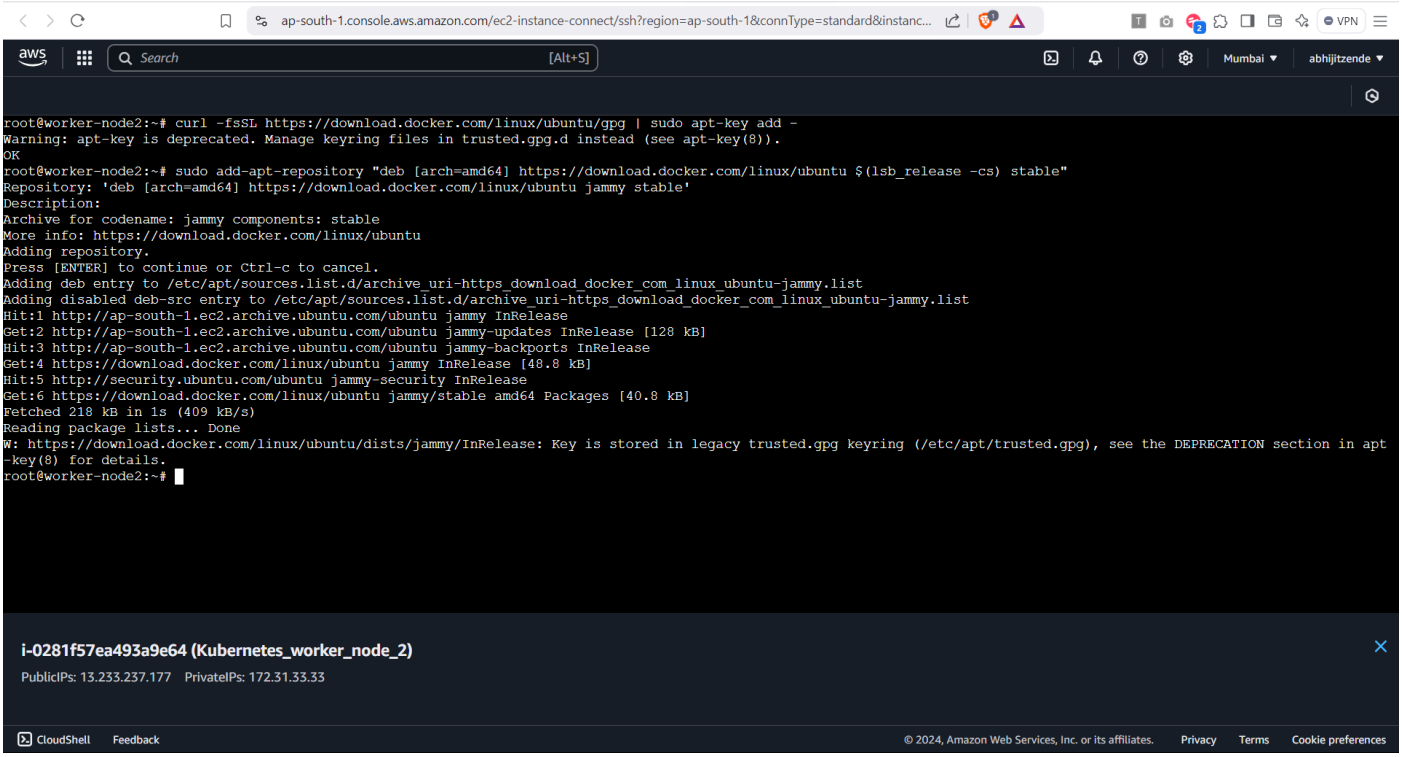
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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Mumbai
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root@worker-node2:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
root@worker-node2:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu jammy stable'
Description:
Archive for codename: jammy components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:6 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [40.8 kB]
Fetched 218 kB in 1s (409 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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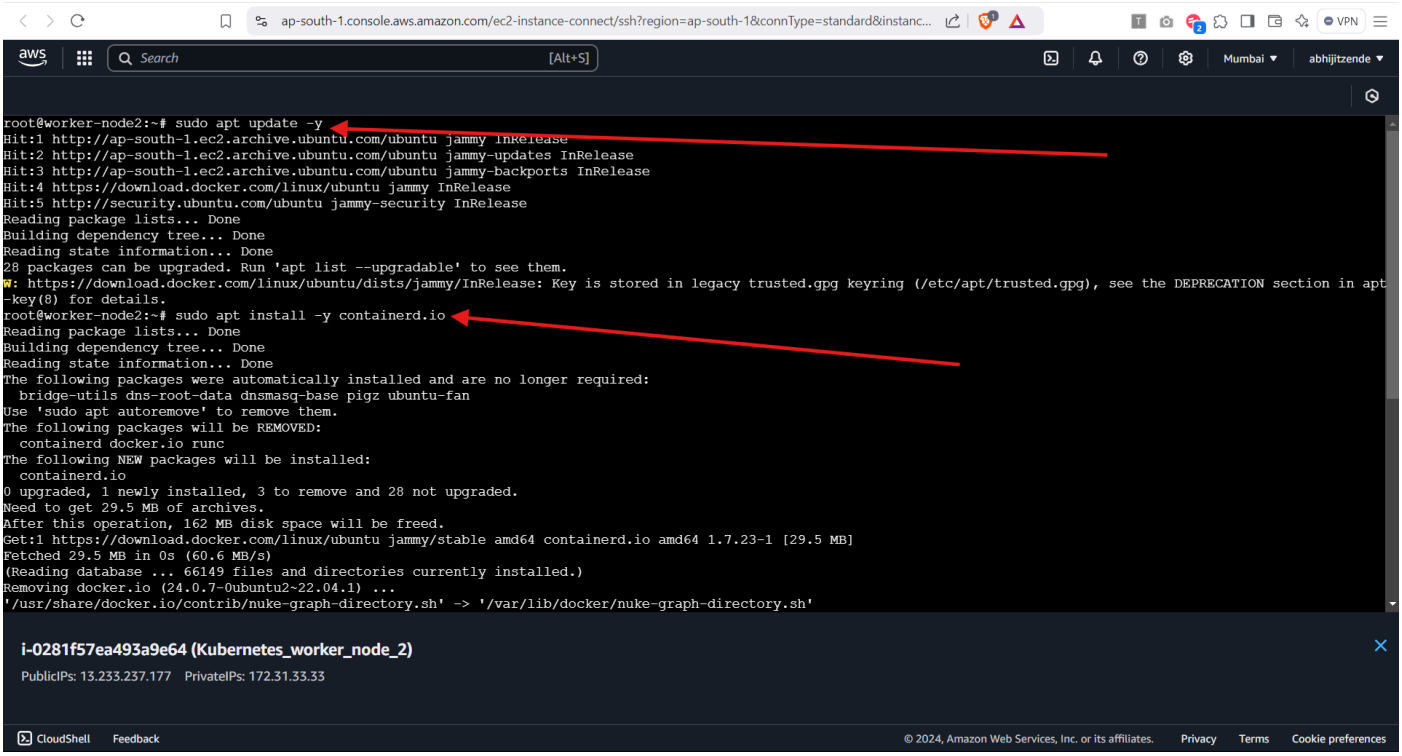
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node2:~# sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
28 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt
-key(8) for details.
root@worker-node2:~# sudo apt install -y containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
containerd docker.io runc
The following NEW packages will be installed:
containerd.io
0 upgraded, 1 newly installed, 3 to remove and 28 not upgraded.
Need to get 29.5 MB of archives.
After this operation, 162 MB disk space will be freed.
Get:1 https://download.docker.com/linux/ubuntu jammy/stable amd64 containerd.io amd64 1.7.23-1 [29.5 MB]
Fetched 29.5 MB in 0s (60.6 MB/s)
(Reading database ... 66149 files and directories currently installed.)
Removing docker.io (24.0.7-0ubuntu2~22.04.1) ...
'/usr/share/docker.io/contrib/nuke-graph-directory.sh' -> '/var/lib/docker/nuke-graph-directory.sh'
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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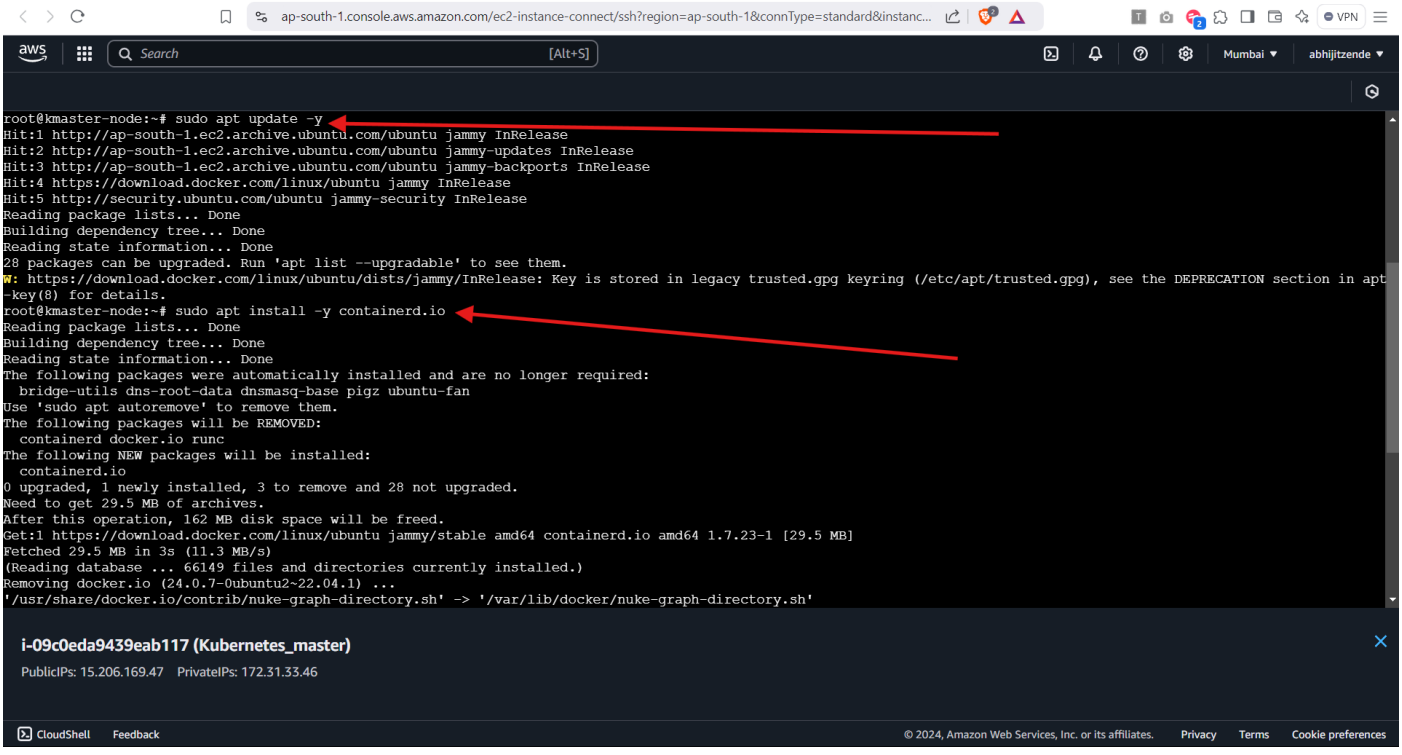
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
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root@kmaster-node:~# sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
28 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt
-key(8) for details.
root@kmaster-node:~# sudo apt install -y containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
containerd docker.io runc
The following NEW packages will be installed:
containerd.io
0 upgraded, 1 newly installed, 3 to remove and 28 not upgraded.
Need to get 29.5 MB of archives.
After this operation, 162 MB disk space will be freed.
Get:1 https://download.docker.com/linux/ubuntu jammy/stable amd64 containerd.io amd64 1.7.23-1 [29.5 MB]
Fetched 29.5 MB in 3s (11.3 MB/s)
(Reading database ... 66149 files and directories currently installed.)
Removing docker.io (24.0.7-0ubuntu2~22.04.1) ...
'/usr/share/docker.io/contrib/nuke-graph-directory.sh' -> '/var/lib/docker/nuke-graph-directory.sh'
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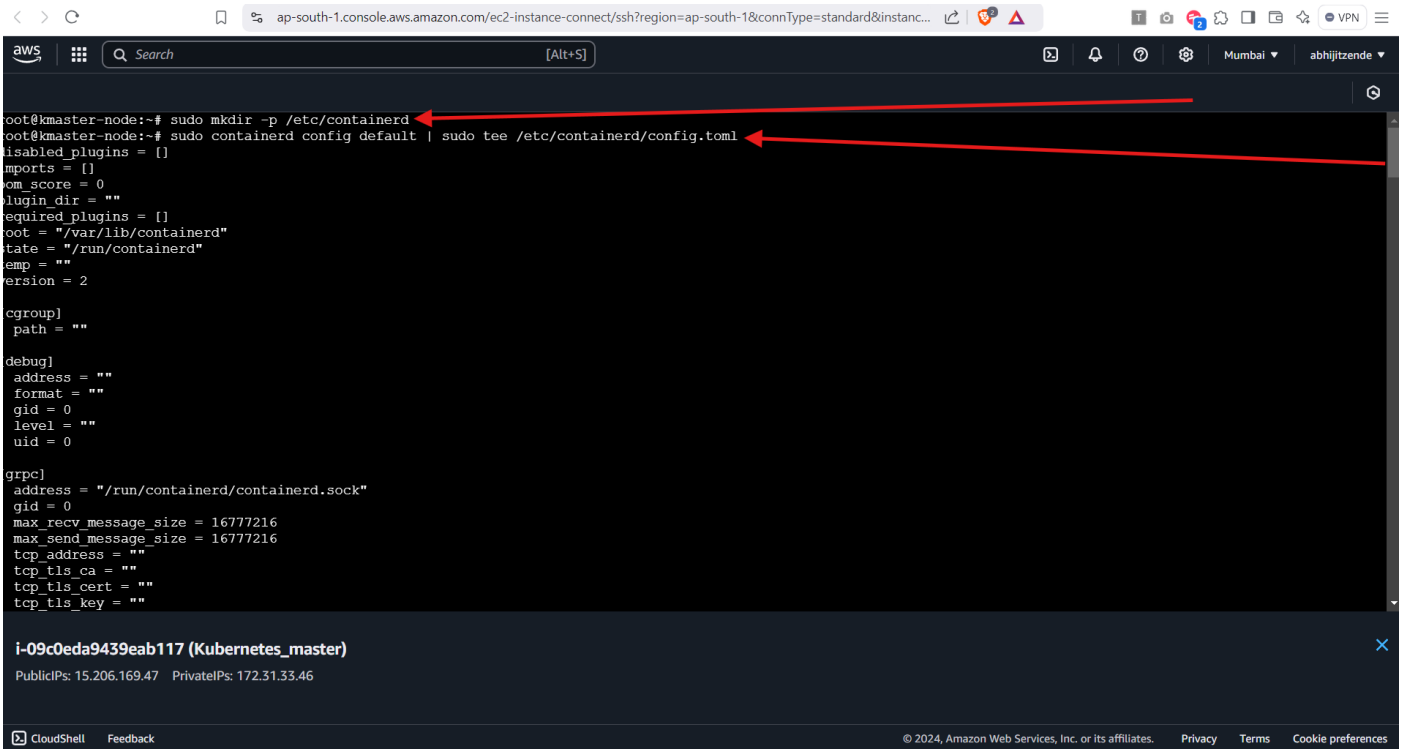
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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oot@kmaster-node:~# sudo mkdir -p /etc/containerd
oot@kmaster-node:~# sudo containerd config default | sudo tee /etc/containerd/config.toml
isabled_plugins = []
mports = []
om_score = 0
lugin_dir = ""
equired_plugins = []
oot = "/var/lib/containerd"
tate = "/run/containerd"
emp = ""
ersion = 2
cgroup]
path = ""
debug]
address = ""
format = ""
gid = 0
level = ""
uid = 0
grpc]
address = "/run/containerd/containerd.sock"
gid = 0
max_recv_message_size = 16777216
max_send_message_size = 16777216
tcp_address = ""
tcp_tls_ca = ""
tcp_tls_cert = ""
tcp_tls_key = ""
i-09c0eda9439eab117 (Kubernetes_master)
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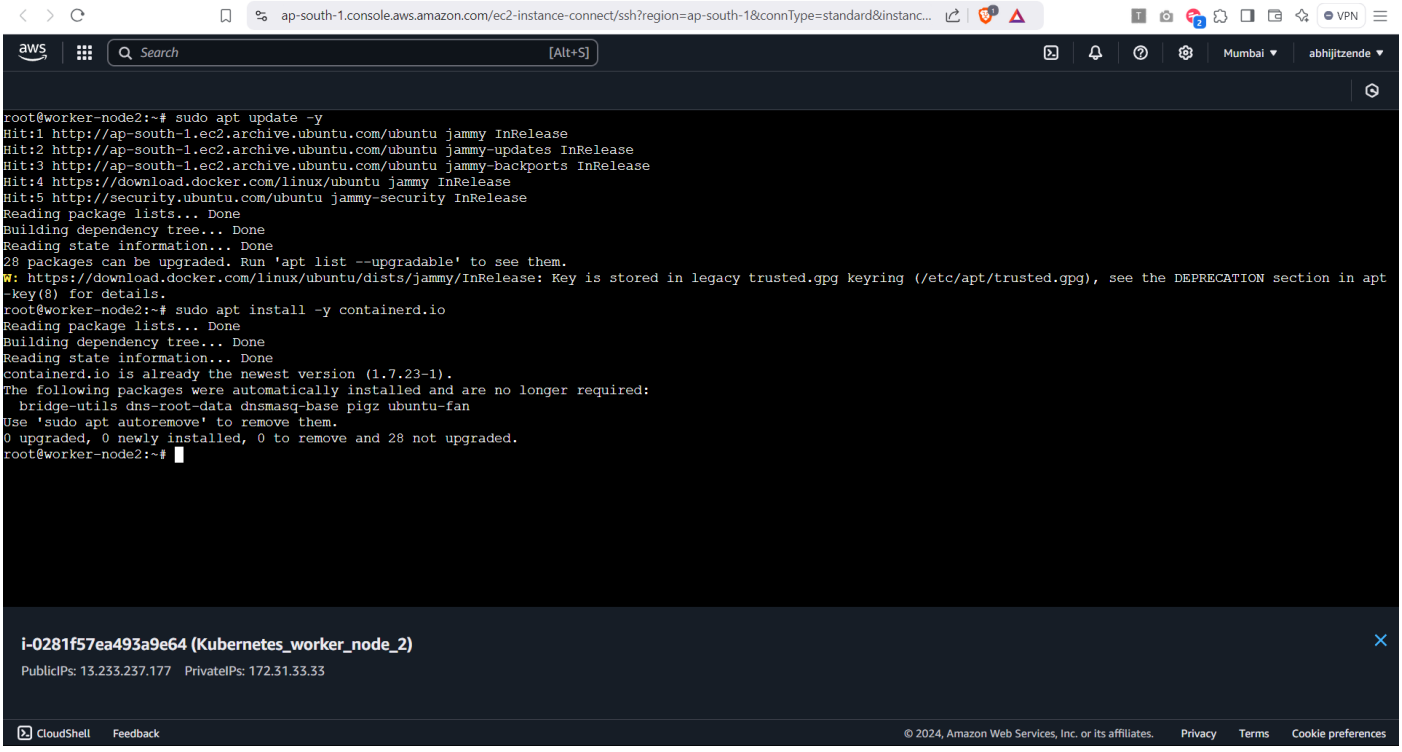
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node2:~# sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
28 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt
-key(8) for details.
root@worker-node2:~# sudo apt install -y containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
containerd.io is already the newest version (1.7.23-1).
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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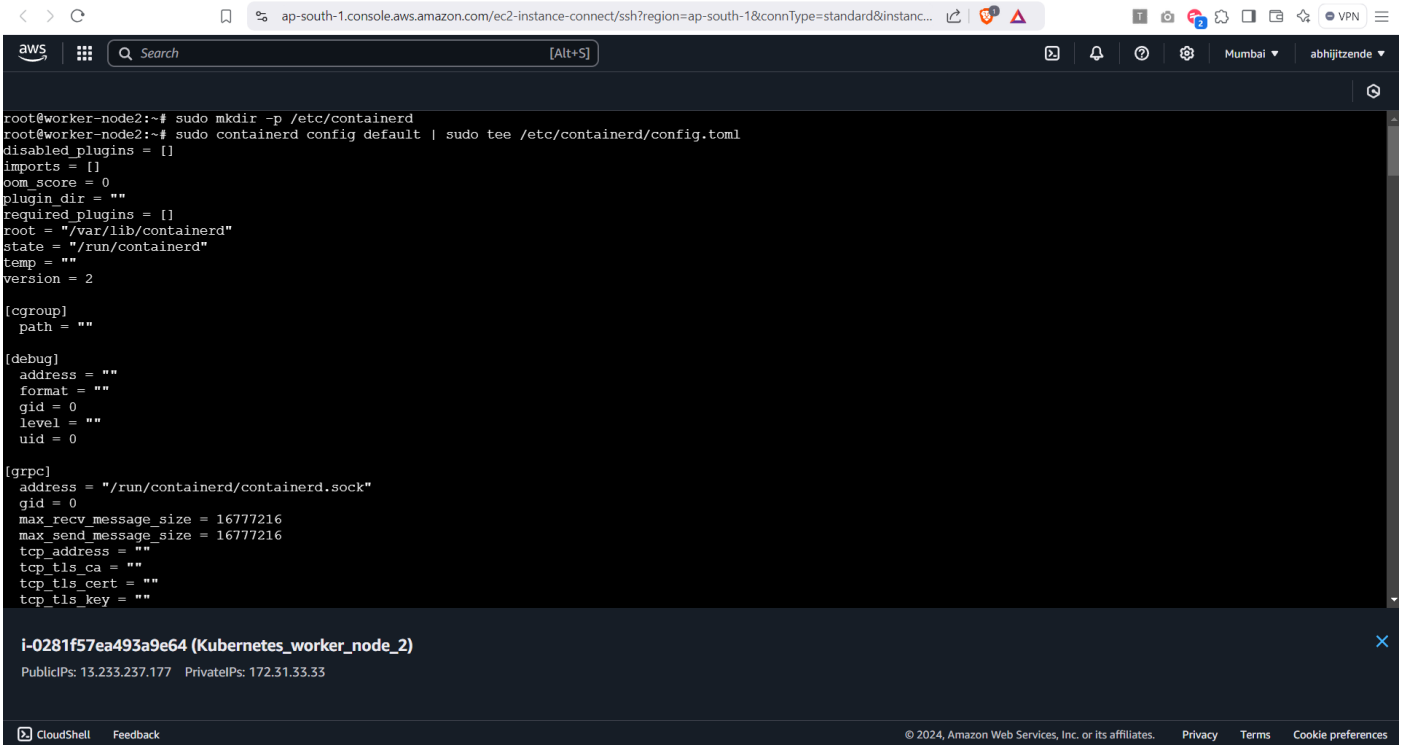
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node2:~# sudo mkdir -p /etc/containerd
root@worker-node2:~# sudo containerd config default | sudo tee /etc/containerd/config.toml
disabled_plugins = []
imports = []
oom_score = 0
plugin_dir = ""
required_plugins = []
root = "/var/lib/containerd"
state = "/run/containerd"
temp = ""
version = 2
[cgroup]
path = ""
[debug]
address = ""
format = ""
gid = 0
level = ""
uid = 0
[grpc]
address = "/run/containerd/containerd.sock"
gid = 0
max_recv_message_size = 16777216
max_send_message_size = 16777216
tcp_address = ""
tcp_tls_ca = ""
tcp_tls_cert = ""
tcp_tls_key = ""
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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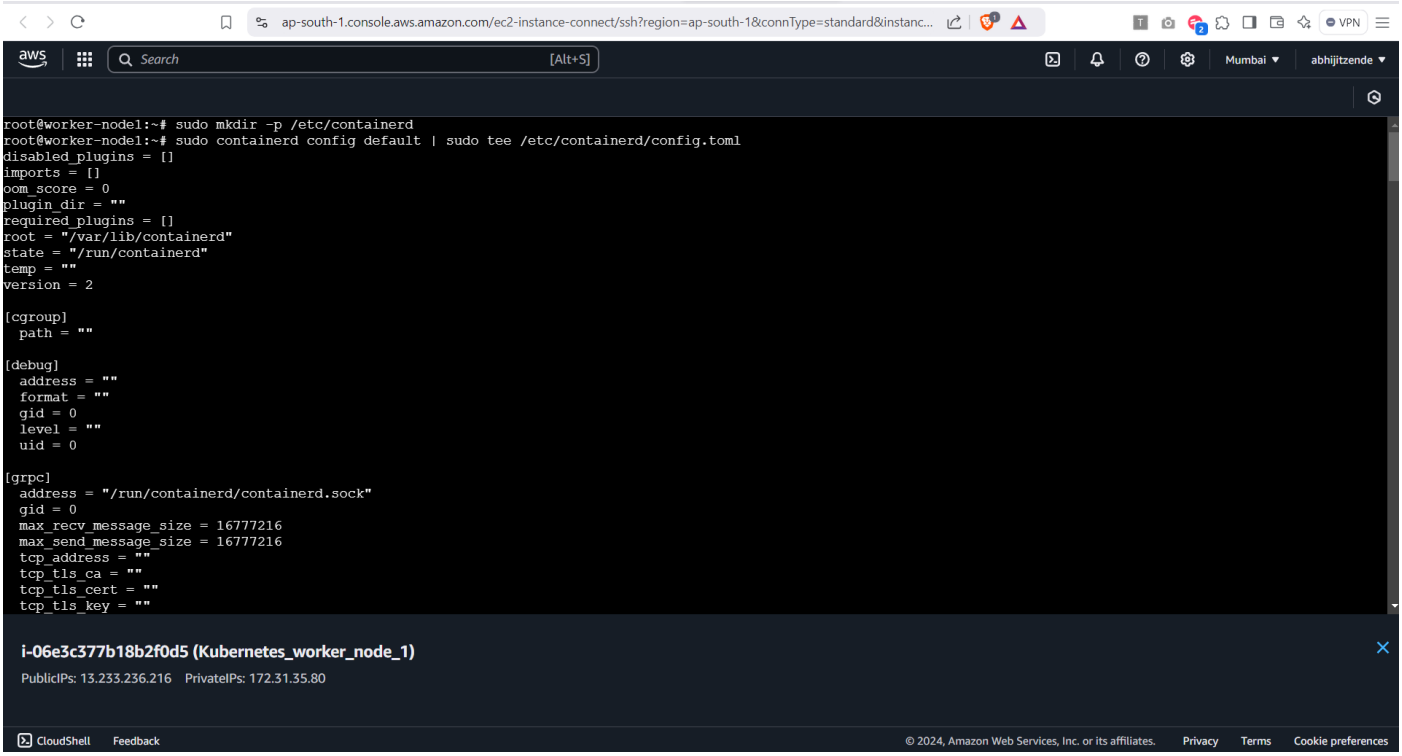
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node1:~# sudo mkdir -p /etc/containerd
root@worker-node1:~# sudo containerd config default | sudo tee /etc/containerd/config.toml
disabled_plugins = []
imports = []
oom_score = 0
plugin_dir = ""
required_plugins = []
root = "/var/lib/containerd"
state = "/run/containerd"
temp = ""
version = 2
[cgroup]
path = ""
[debug]
address = ""
format = ""
gid = 0
level = ""
uid = 0
[grpc]
address = "/run/containerd/containerd.sock"
gid = 0
max_recv_message_size = 16777216
max_send_message_size = 16777216
tcp_address = ""
tcp_tls_ca = ""
tcp_tls_cert = ""
tcp_tls_key = ""
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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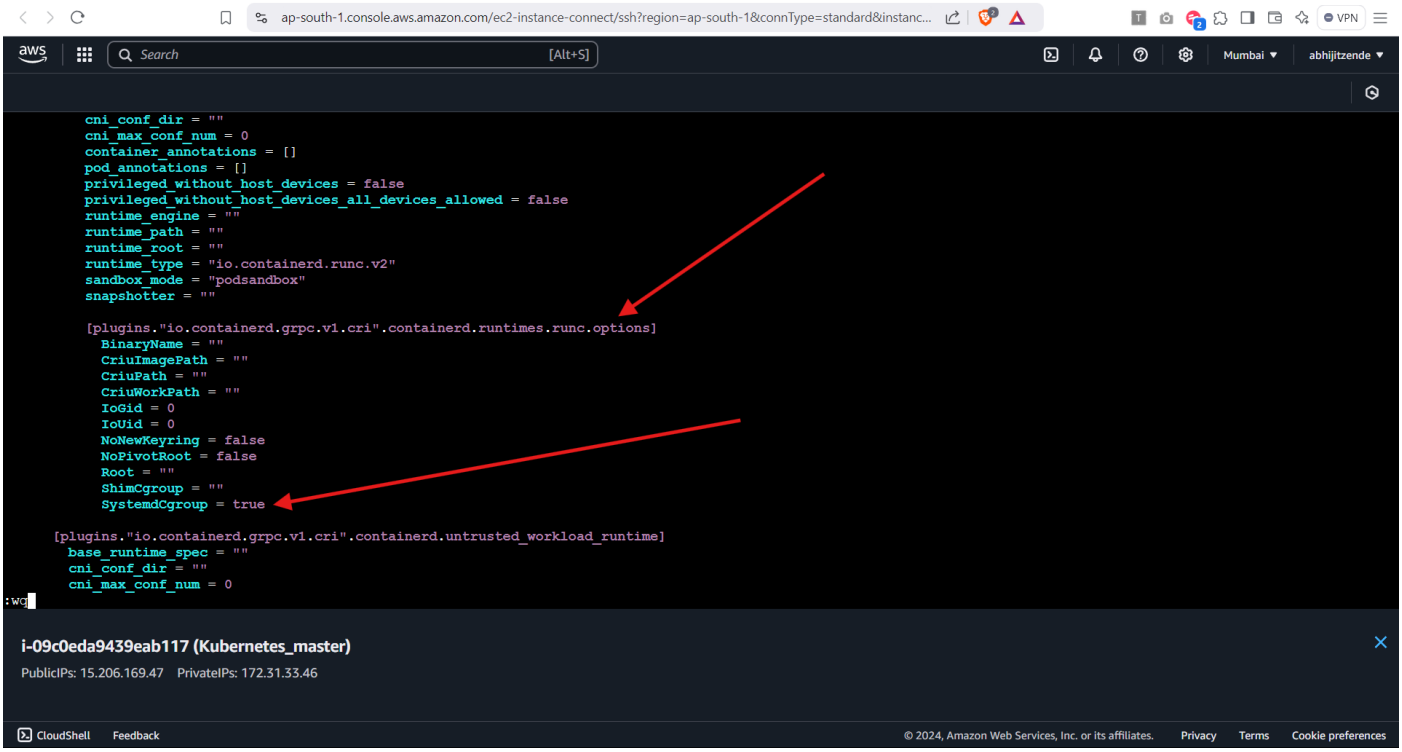
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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cni_conf_dir = ""
cni_max_conf_num = 0
container_annotations = []
pod_annotations = []
privileged_without_host_devices = false
privileged_without_host_devices_all_devices_allowed = false
runtime_engine = ""
runtime_path = ""
runtime_root = ""
runtime_type = "io.containerd.runc.v2"
sandbox_mode = "podsandbox"
snapshotter = ""
[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc.options]
BinaryName = ""
CriuImagePath = ""
CriuPath = ""
CriuWorkPath = ""
IoGid = 0
IoUid = 0
NoNewKeyring = false
NoPivotRoot = false
Root = ""
ShimCgroup = ""
SystemdCgroup = true
[plugins."io.containerd.grpc.v1.cri".containerd.untrusted_workload_runtime]
base_runtime_spec = ""
cni_conf_dir = ""
cni_max_conf_num = 0
:wq
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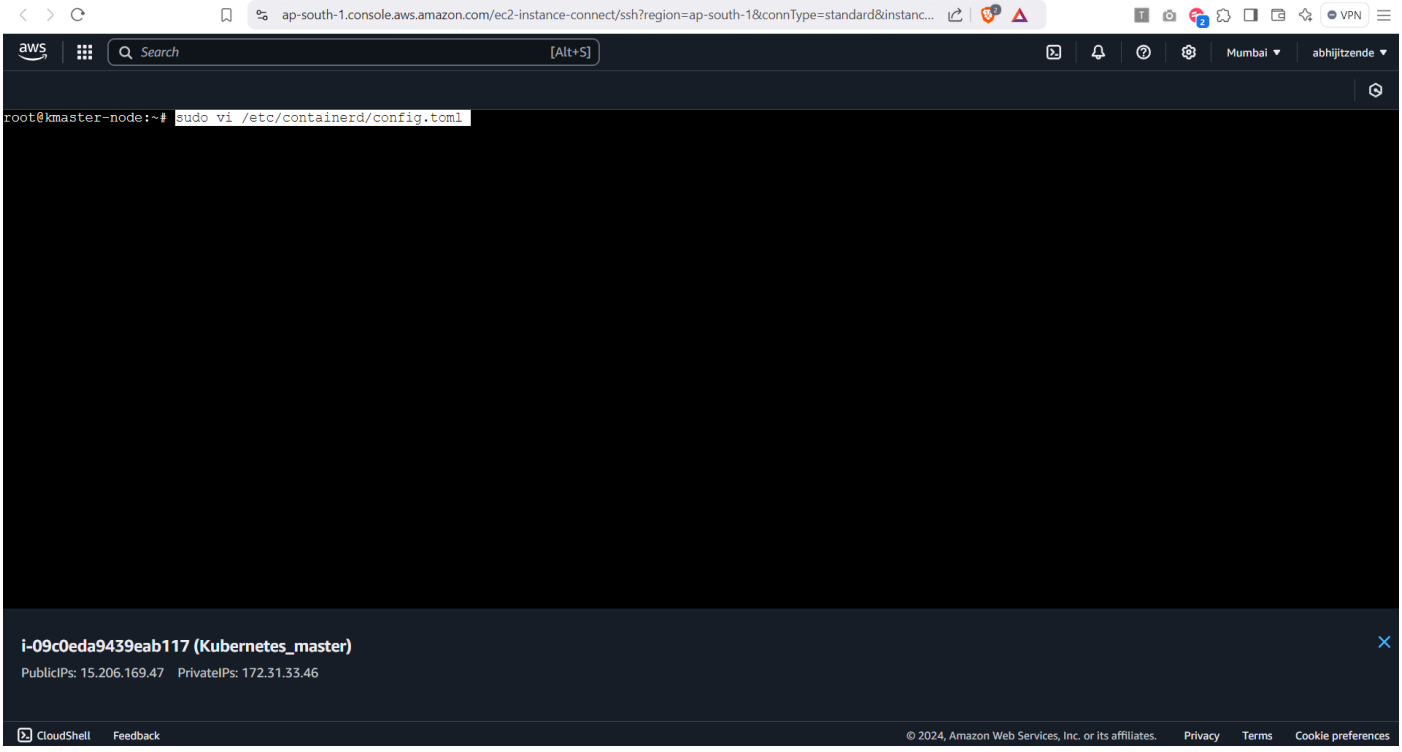
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@kmaster-node:~# sudo vi /etc/containerd/config.toml
i-09c0eda9439eab117 (Kubernetes_master)
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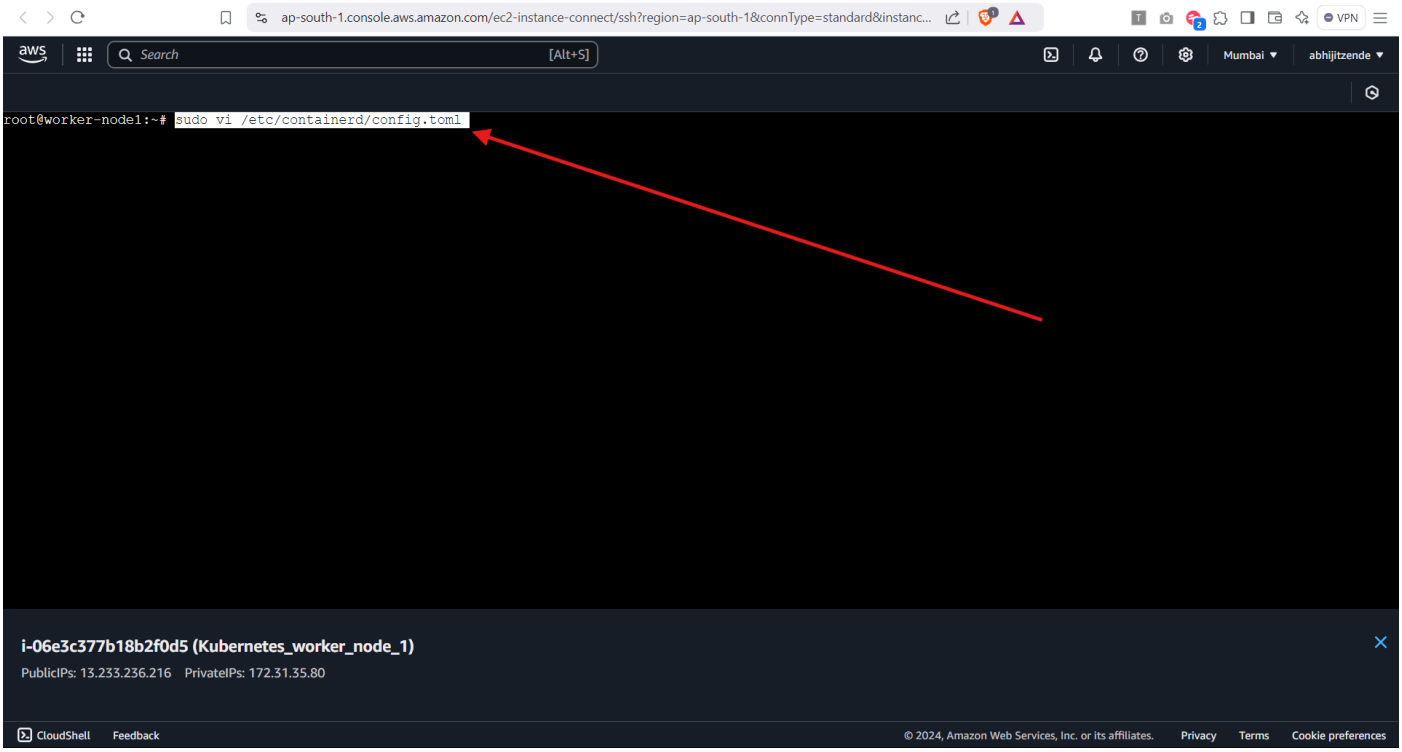
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node1:~# sudo vi /etc/containerd/config.toml
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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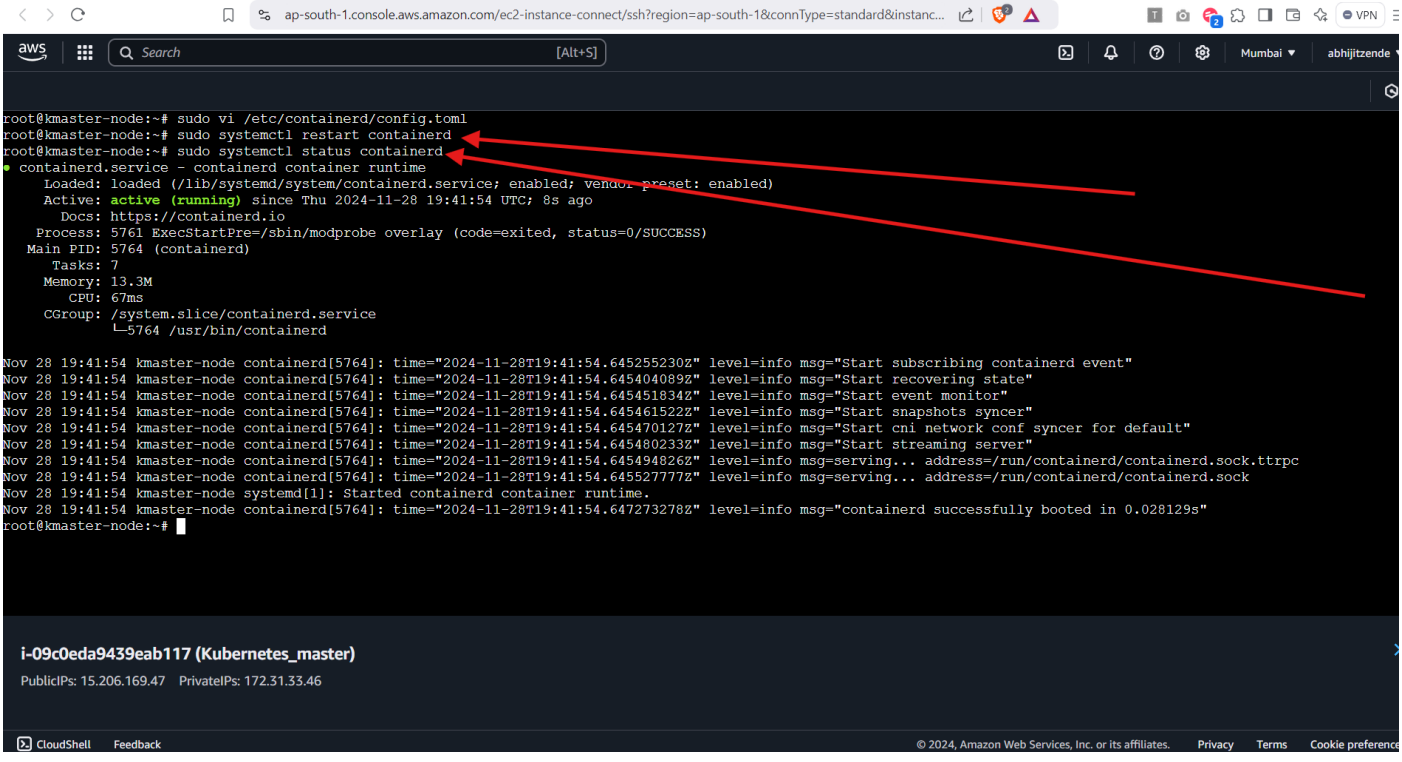
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@kmaster-node:~# sudo vi /etc/containerd/config.toml
root@kmaster-node:~# sudo systemctl restart containerd
root@kmaster-node:~# sudo systemctl status containerd
● containerd.service - containerd container runtime
Loaded: loaded (/lib/systemd/system/containerd.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2024-11-28 19:41:54 UTC; 8s ago
Docs: https://containerd.io
Process: 5761 ExecStartPre=/sbin/modprobe overlay (code=exited, status=0/SUCCESS)
Main PID: 5764 (containerd)
Tasks: 7
Memory: 13.3M
CPU: 67ms
CGroup: /system.slice/containerd.service
└─5764 /usr/bin/containerd
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645255230Z" level=info msg="Start subscribing containerd event"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645404089Z" level=info msg="Start recovering state"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645451834Z" level=info msg="Start event monitor"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645461522Z" level=info msg="Start snapshots syncer"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645470127Z" level=info msg="Start cni network conf syncer for default"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645480233Z" level=info msg="Start streaming server"
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645494826Z" level=info msg=serving... address=/run/containerd/containerd.sock.ttrpc
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.645527777Z" level=info msg=serving... address=/run/containerd/containerd.sock
Nov 28 19:41:54 kmaster-node systemd[1]: Started containerd container runtime.
Nov 28 19:41:54 kmaster-node containerd[5764]: time="2024-11-28T19:41:54.647273278Z" level=info msg="containerd successfully booted in 0.028129s"
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
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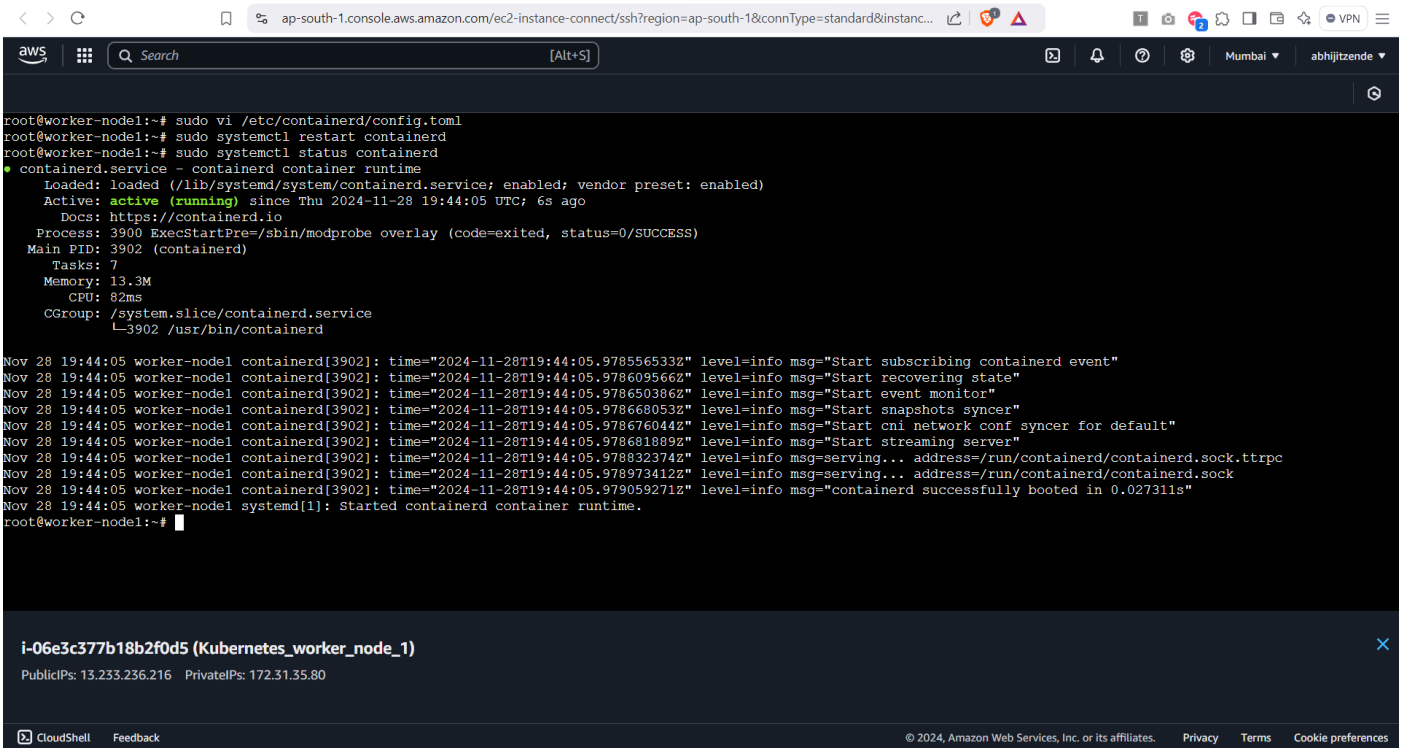
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node1:~# sudo vi /etc/containerd/config.toml
root@worker-node1:~# sudo systemctl restart containerd
root@worker-node1:~# sudo systemctl status containerd
● containerd.service - containerd container runtime
Loaded: loaded (/lib/systemd/system/containerd.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2024-11-28 19:44:05 UTC; 6s ago
Docs: https://containerd.io
Process: 3900 ExecStartPre=/sbin/modprobe overlay (code=exited, status=0/SUCCESS)
Main PID: 3902 (containerd)
Tasks: 7
Memory: 13.3M
CPU: 82ms
CGroup: /system.slice/containerd.service
└─3902 /usr/bin/containerd
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978556533Z" level=info msg="Start subscribing containerd event"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978609566Z" level=info msg="Start recovering state"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978650386Z" level=info msg="Start event monitor"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978668053Z" level=info msg="Start snapshots syncer"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978676044Z" level=info msg="Start cni network conf syncer for default"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978681889Z" level=info msg="Start streaming server"
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978832374Z" level=info msg=serving... address=/run/containerd/containerd.sock.ttrpc
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.978973412Z" level=info msg=serving... address=/run/containerd/containerd.sock
Nov 28 19:44:05 worker-node1 containerd[3902]: time="2024-11-28T19:44:05.979059271Z" level=info msg="containerd successfully booted in 0.027311s"
Nov 28 19:44:05 worker-node1 systemd[1]: Started containerd container runtime.
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
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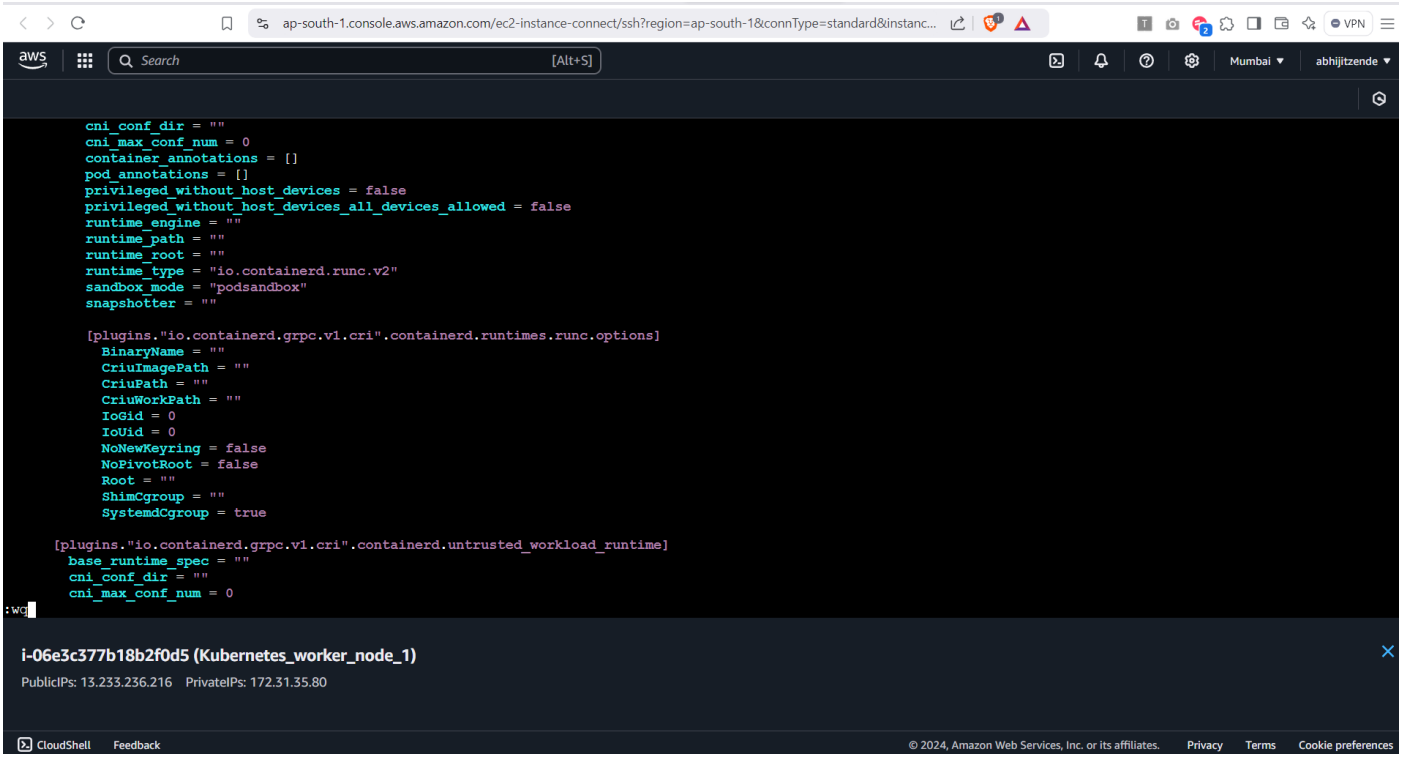
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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cni_conf_dir = ""
cni_max_conf_num = 0
container_annotations = []
pod_annotations = []
privileged_without_host_devices = false
privileged_without_host_devices_all_devices_allowed = false
runtime_engine = ""
runtime_path = ""
runtime_root = ""
runtime_type = "io.containerd.runc.v2"
sandbox_mode = "podsandbox"
snapshotter = ""
[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc.options]
BinaryName = ""
CriuImagePath = ""
CriuPath = ""
CriuWorkPath = ""
IoGid = 0
IoUid = 0
NoNewKeyring = false
NoPivotRoot = false
Root = ""
ShimCgroup = ""
SystemdCgroup = true
[plugins."io.containerd.grpc.v1.cri".containerd.untrusted_workload_runtime]
base_runtime_spec = ""
cni_conf_dir = ""
cni_max_conf_num = 0
:wq
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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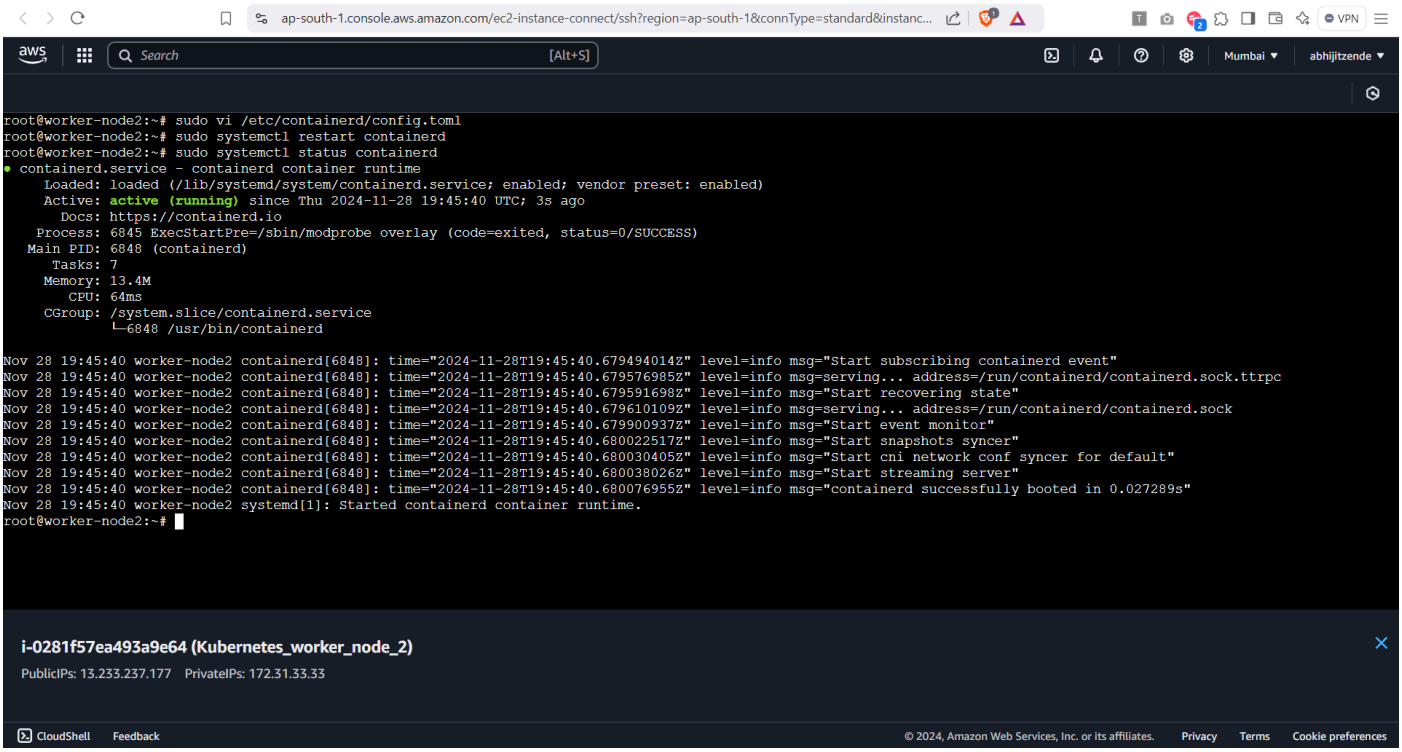
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@worker-node2:~# sudo vi /etc/containerd/config.toml
root@worker-node2:~# sudo systemctl restart containerd
root@worker-node2:~# sudo systemctl status containerd
● containerd.service - containerd container runtime
Loaded: loaded (/lib/systemd/system/containerd.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2024-11-28 19:45:40 UTC; 3s ago
Docs: https://containerd.io
Process: 6845 ExecStartPre=/sbin/modprobe overlay (code=exited, status=0/SUCCESS)
Main PID: 6848 (containerd)
Tasks: 7
Memory: 13.4M
CPU: 64ms
CGroup: /system.slice/containerd.service
└─6848 /usr/bin/containerd
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.679494014Z" level=info msg="Start subscribing containerd event"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.679576985Z" level=info msg=serving... address=/run/containerd/containerd.sock.ttrpc
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.679591698Z" level=info msg="Start recovering state"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.679610109Z" level=info msg=serving... address=/run/containerd/containerd.sock
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.679900937Z" level=info msg="Start event monitor"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.680022517Z" level=info msg="Start snapshots syncer"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.680030405Z" level=info msg="Start cni network conf syncer for default"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.680038026Z" level=info msg="Start streaming server"
Nov 28 19:45:40 worker-node2 containerd[6848]: time="2024-11-28T19:45:40.680076955Z" level=info msg="containerd successfully booted in 0.027289s"
Nov 28 19:45:40 worker-node2 systemd[1]: Started containerd container runtime.
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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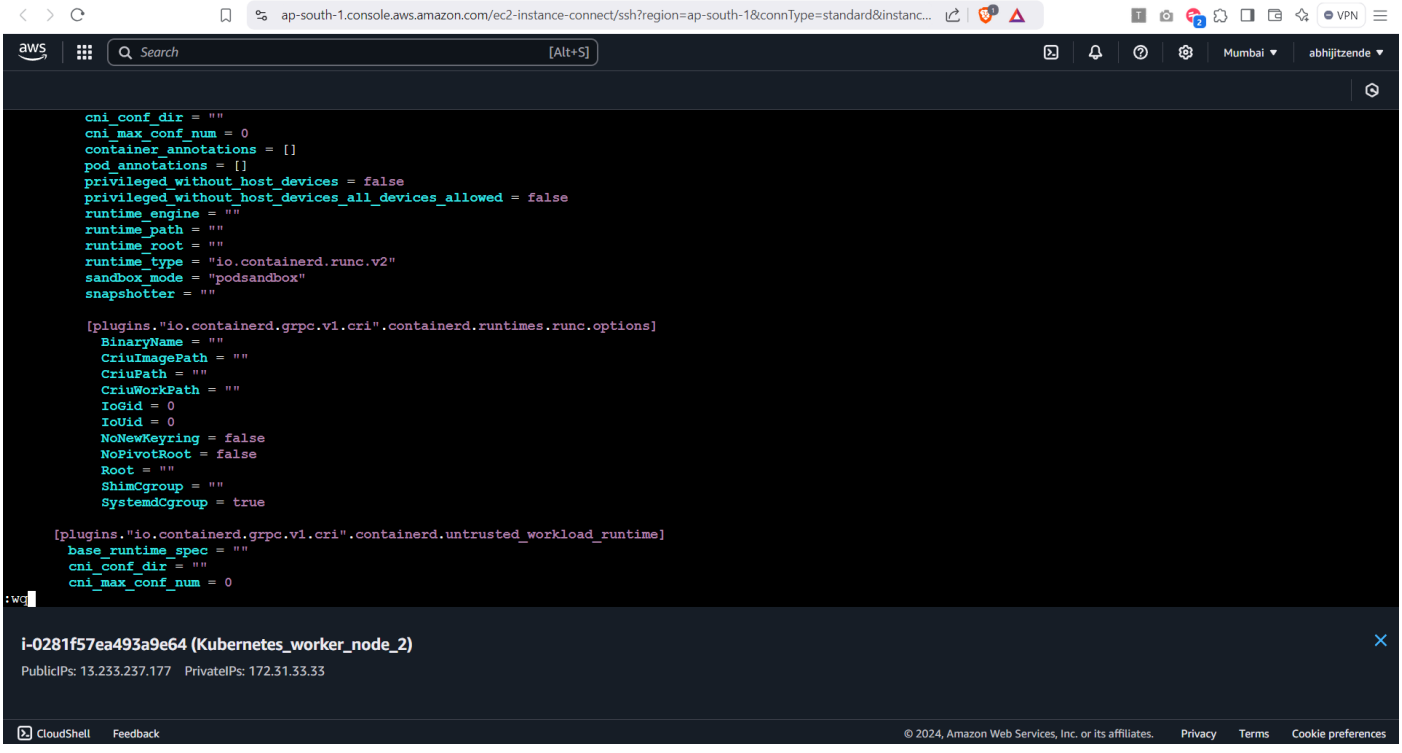
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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cni_conf_dir = ""
cni_max_conf_num = 0
container_annotations = []
pod_annotations = []
privileged_without_host_devices = false
privileged_without_host_devices_all_devices_allowed = false
runtime_engine = ""
runtime_path = ""
runtime_root = ""
runtime_type = "io.containerd.runc.v2"
sandbox_mode = "podsandbox"
snapshotter = ""
[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc.options]
BinaryName = ""
CriuImagePath = ""
CriuPath = ""
CriuWorkPath = ""
IoGid = 0
IoUid = 0
NoNewKeyring = false
NoPivotRoot = false
Root = ""
ShimCgroup = ""
SystemdCgroup = true
[plugins."io.containerd.grpc.v1.cri".containerd.untrusted_workload_runtime]
base_runtime_spec = ""
cni_conf_dir = ""
cni_max_conf_num = 0
:wq
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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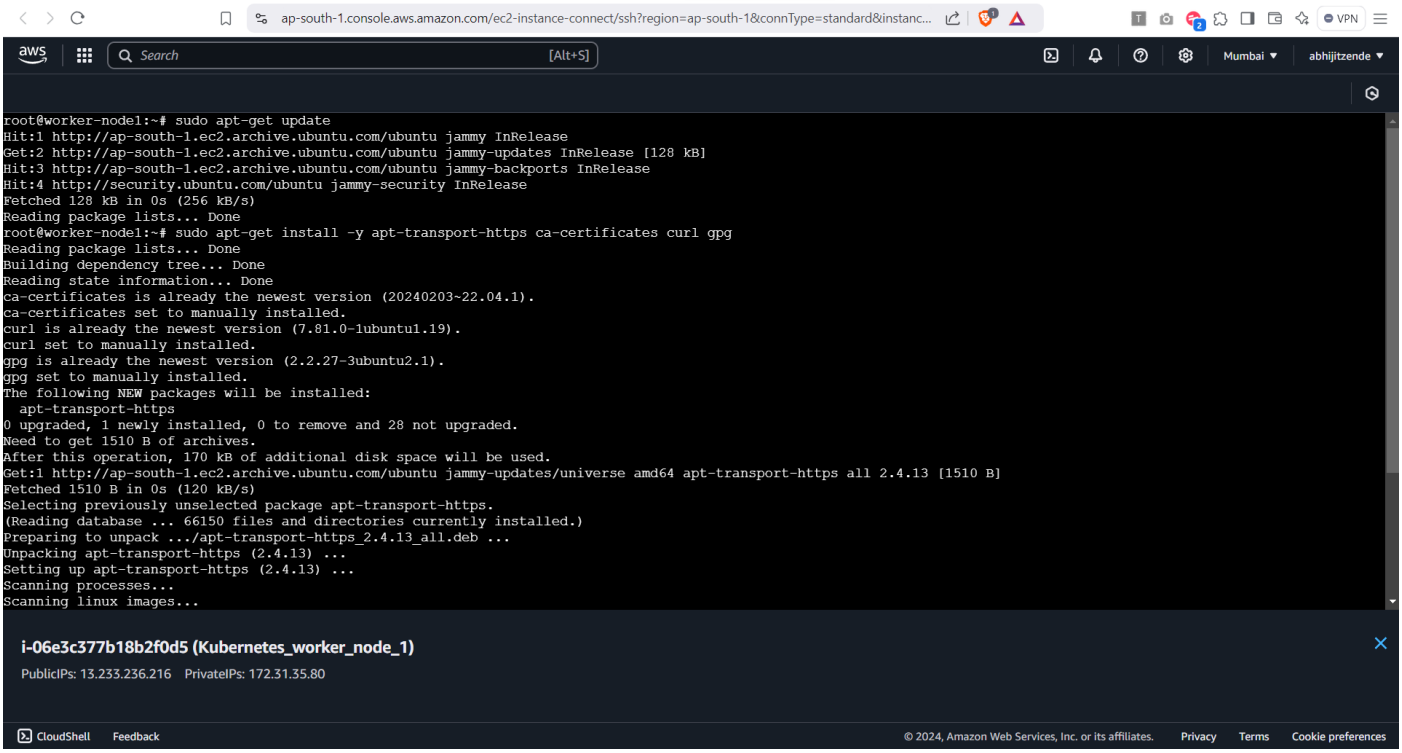
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node1:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Fetched 128 kB in 0s (256 kB/s)
Reading package lists... Done
root@worker-node1:~# sudo apt-get install -y apt-transport-https ca-certificates curl gpg
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203~22.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.81.0-1ubuntu1.19).
curl set to manually installed.
gpg is already the newest version (2.2.27-3ubuntu2.1).
gpg set to manually installed.
The following NEW packages will be installed:
apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 28 not upgraded.
Need to get 1510 B of archives.
After this operation, 170 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 apt-transport-https all 2.4.13 [1510 B]
Fetched 1510 B in 0s (120 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 66150 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.4.13_all.deb ...
Unpacking apt-transport-https (2.4.13) ...
Setting up apt-transport-https (2.4.13) ...
Scanning processes...
Scanning linux images...
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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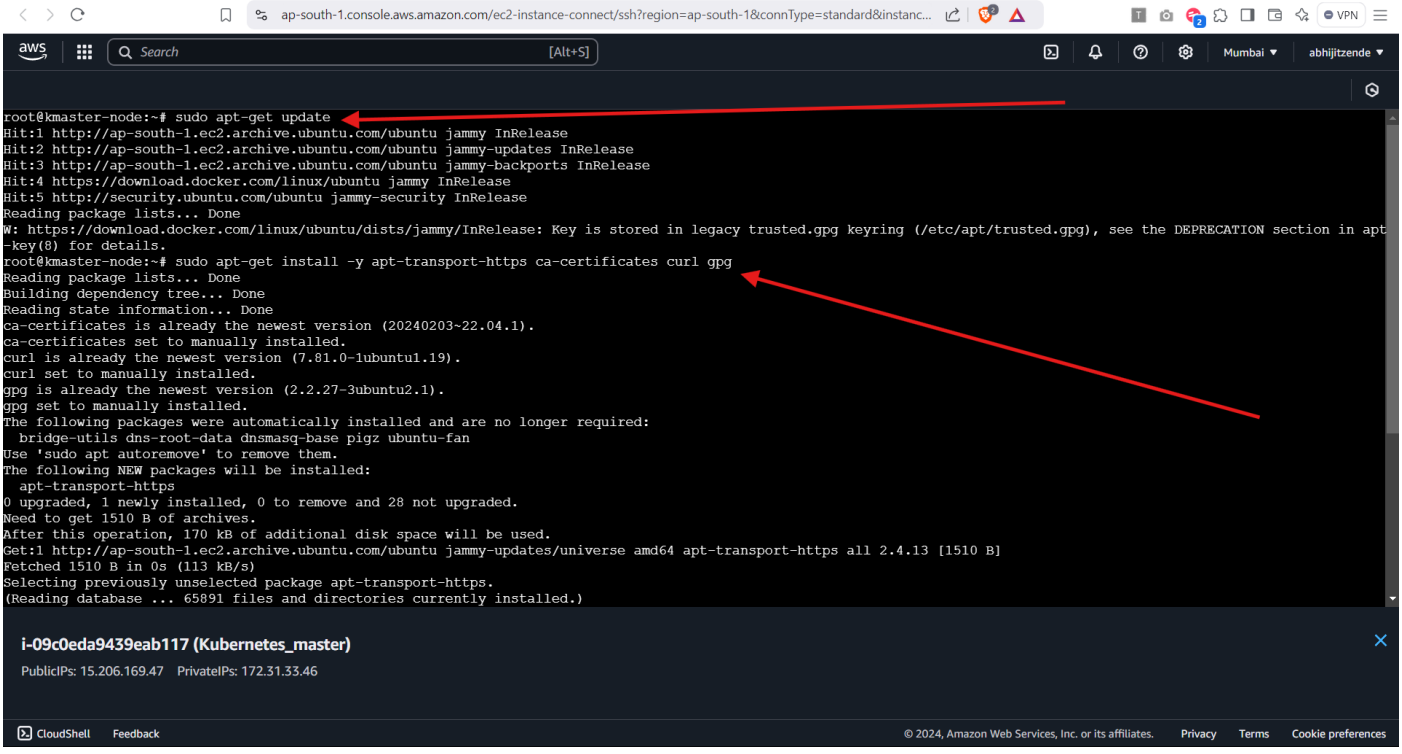
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
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root@kmaster-node:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt
-key(8) for details.
root@kmaster-node:~# sudo apt-get install -y apt-transport-https ca-certificates curl gpg
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203~22.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.81.0-1ubuntu1.19).
curl set to manually installed.
gpg is already the newest version (2.2.27-3ubuntu2.1).
gpg set to manually installed.
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 28 not upgraded.
Need to get 1510 B of archives.
After this operation, 170 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 apt-transport-https all 2.4.13 [1510 B]
Fetched 1510 B in 0s (113 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 65891 files and directories currently installed.)
i-09c0eda9439eab117 (Kubernetes_master)
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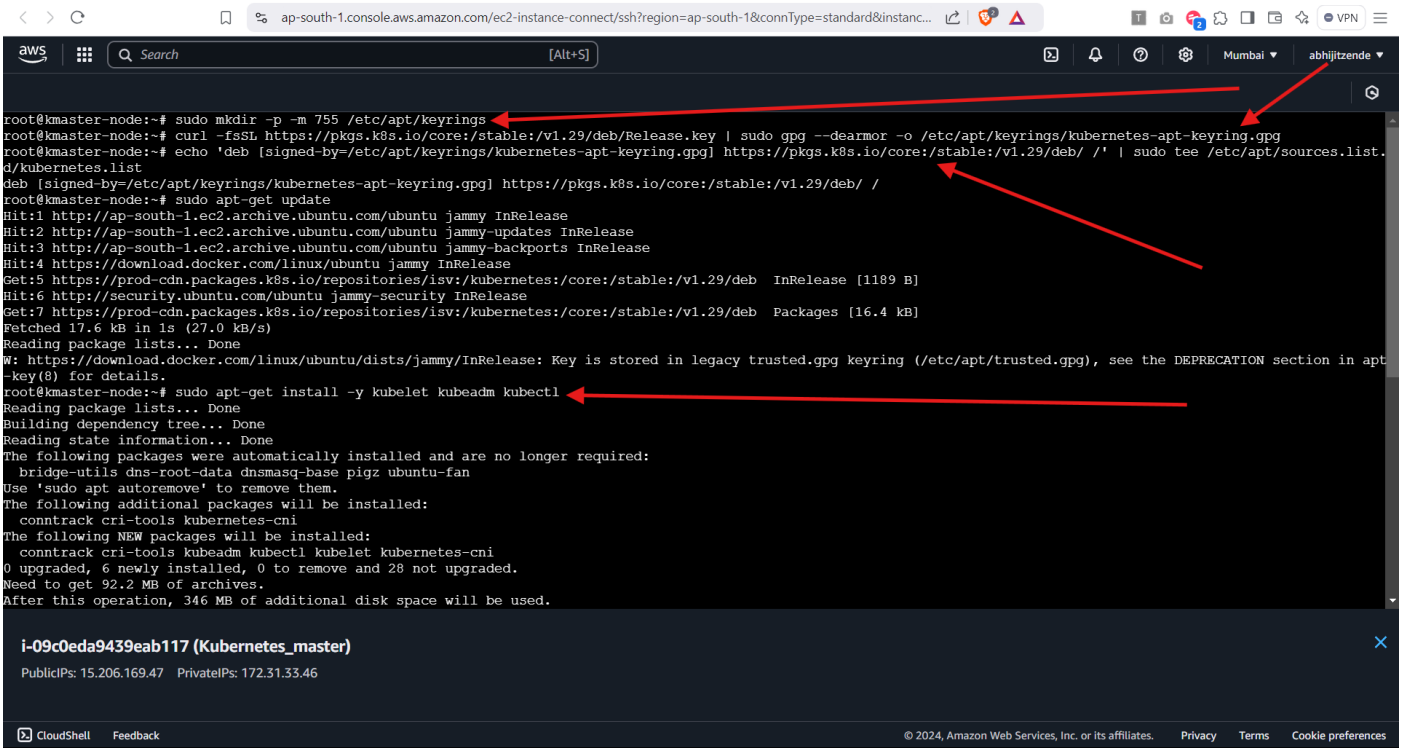
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
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root@kmaster-node:~# sudo mkdir -p -m 755 /etc/apt/keyrings
root@kmaster-node:~# curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.29/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg
root@kmaster-node:~# echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list
deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /
root@kmaster-node:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Get:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease [1189 B]
Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:7 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb Packages [16.4 kB]
Fetched 17.6 kB in 1s (27.0 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
root@kmaster-node:~# sudo apt-get install -y kubelet kubeadm kubectl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
conntrack cri-tools kubernetes-cni
The following NEW packages will be installed:
conntrack cri-tools kubeadm kubectl kubelet kubernetes-cni
0 upgraded, 6 newly installed, 0 to remove and 28 not upgraded.
Need to get 92.2 MB of archives.
After this operation, 346 MB of additional disk space will be used.
i-09c0eda9439eab117 (Kubernetes_master)
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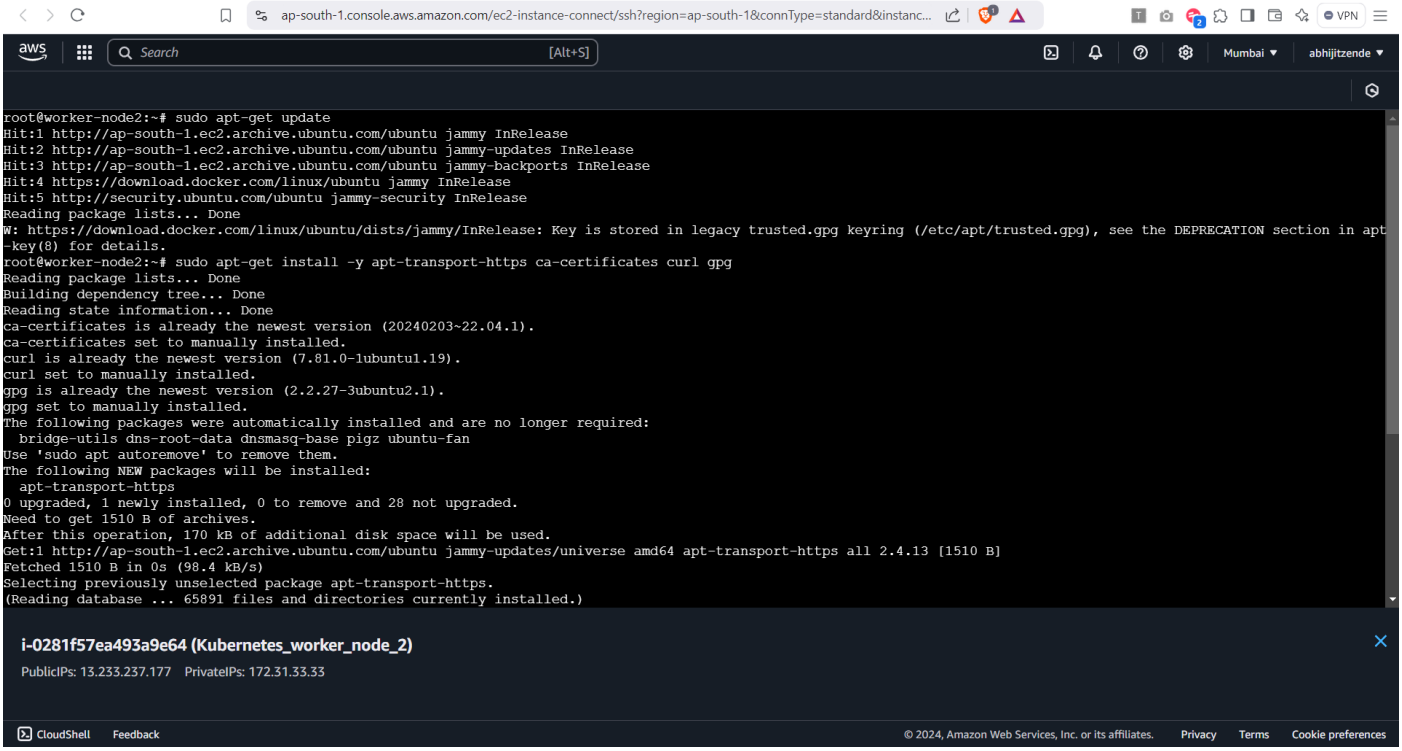
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
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root@worker-node2:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
root@worker-node2:~# sudo apt-get install -y apt-transport-https ca-certificates curl gpg
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203~22.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.81.0-1ubuntu1.19).
curl set to manually installed.
gpg is already the newest version (2.2.27-3ubuntu2.1).
gpg set to manually installed.
The following packages were automatically installed and are no longer required:
bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 28 not upgraded.
Need to get 1510 B of archives.
After this operation, 170 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 apt-transport-https all 2.4.13 [1510 B]
Fetched 1510 B in 0s (98.4 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 65891 files and directories currently installed.)
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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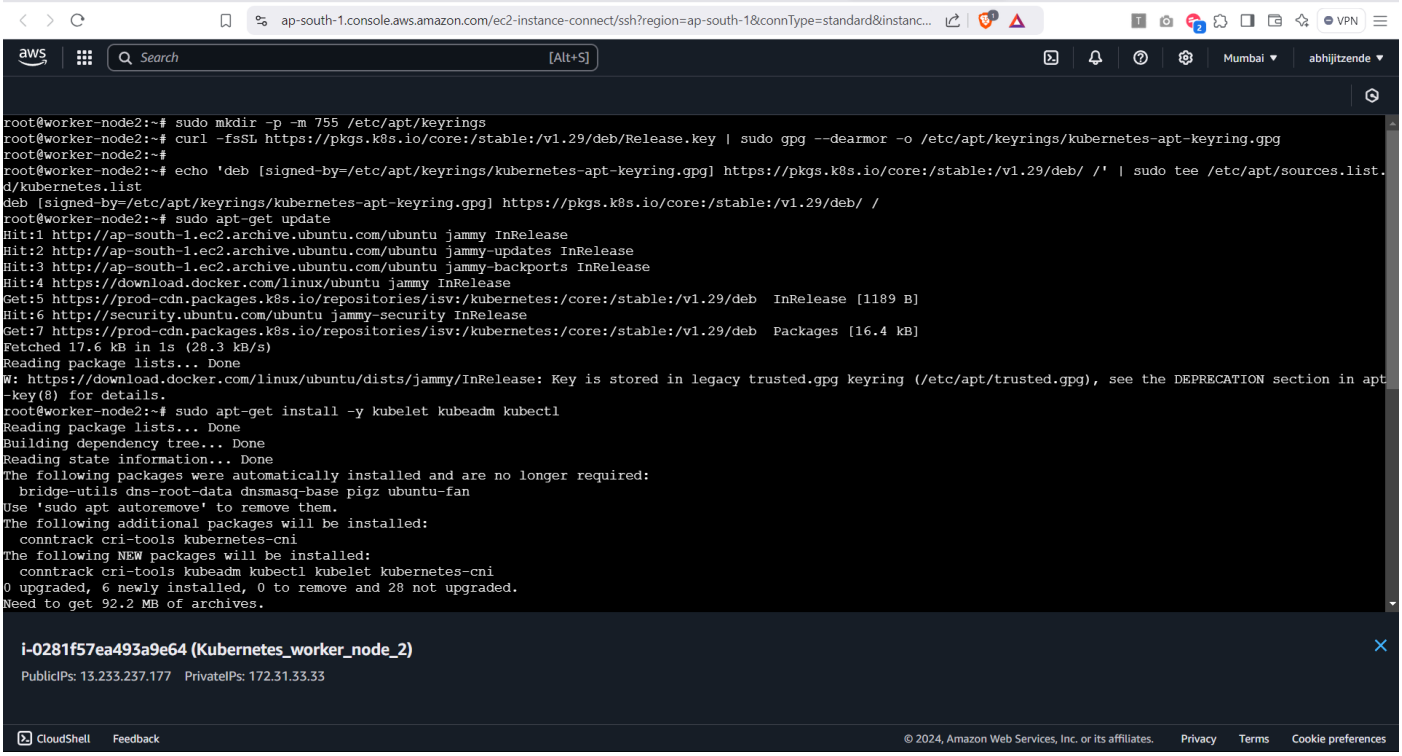
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
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root@worker-node2:~# sudo mkdir -p -m 755 /etc/apt/keyrings
root@worker-node2:~# curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.29/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg
root@worker-node2:~#
root@worker-node2:~# echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /' | sudo tee /etc/apt/sources.list.
d/kubernetes.list
deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /
root@worker-node2:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Get:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease [1189 B]
Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:7 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb Packages [16.4 kB]
Fetched 17.6 kB in 1s (28.3 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt
-key(8) for details.
root@worker-node2:~# sudo apt-get install -y kubelet kubeadm kubectl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  bridge-utils dns-root-data dnsmasq-base pigz ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  conntrack cri-tools kubernetes-cni
The following NEW packages will be installed:
  conntrack cri-tools kubeadm kubectl kubelet kubernetes-cni
0 upgraded, 6 newly installed, 0 to remove and 28 not upgraded.
Need to get 92.2 MB of archives.
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
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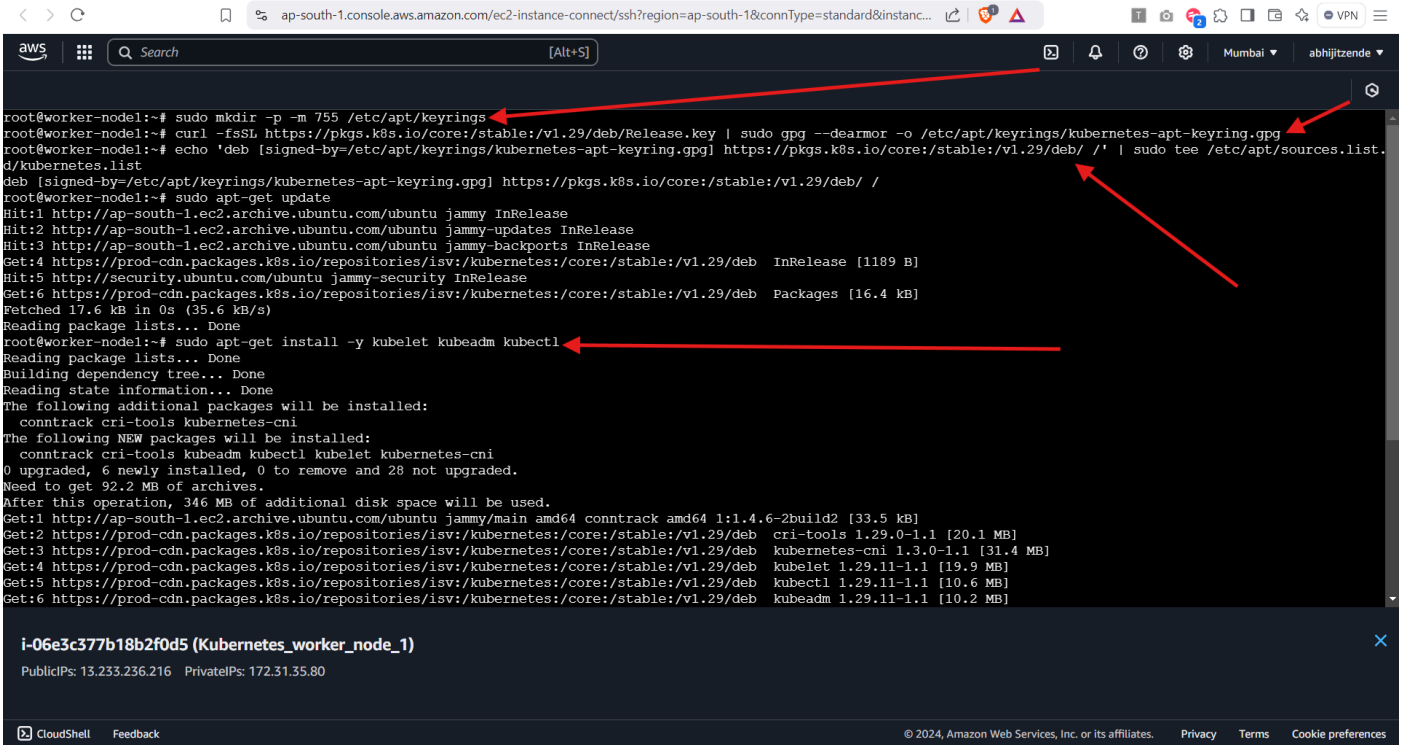
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
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root@worker-node1:~# sudo mkdir -p -m 755 /etc/apt/keyrings
root@worker-node1:~# curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.29/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg
root@worker-node1:~# echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /' | sudo tee /etc/apt/sources.list.
d/kubernetes.list
deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /
root@worker-node1:~# sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease [1189 B]
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:6 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb Packages [16.4 kB]
Fetched 17.6 kB in 0s (35.6 kB/s)
Reading package lists... Done
root@worker-node1:~# sudo apt-get install -y kubelet kubeadm kubectl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  conntrack cri-tools kubernetes-cni
The following NEW packages will be installed:
  conntrack cri-tools kubeadm kubectl kubelet kubernetes-cni
0 upgraded, 6 newly installed, 0 to remove and 28 not upgraded.
Need to get 92.2 MB of archives.
After this operation, 346 MB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 conntrack amd64 1:1.4.6-2build2 [33.5 kB]
Get:2 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb cri-tools 1.29.0-1.1 [20.1 MB]
Get:3 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb kubernetes-cni 1.3.0-1.1 [31.4 MB]
Get:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb kubelet 1.29.11-1.1 [19.9 MB]
Get:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb kubectl 1.29.11-1.1 [10.6 MB]
Get:6 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb kubeadm 1.29.11-1.1 [10.2 MB]
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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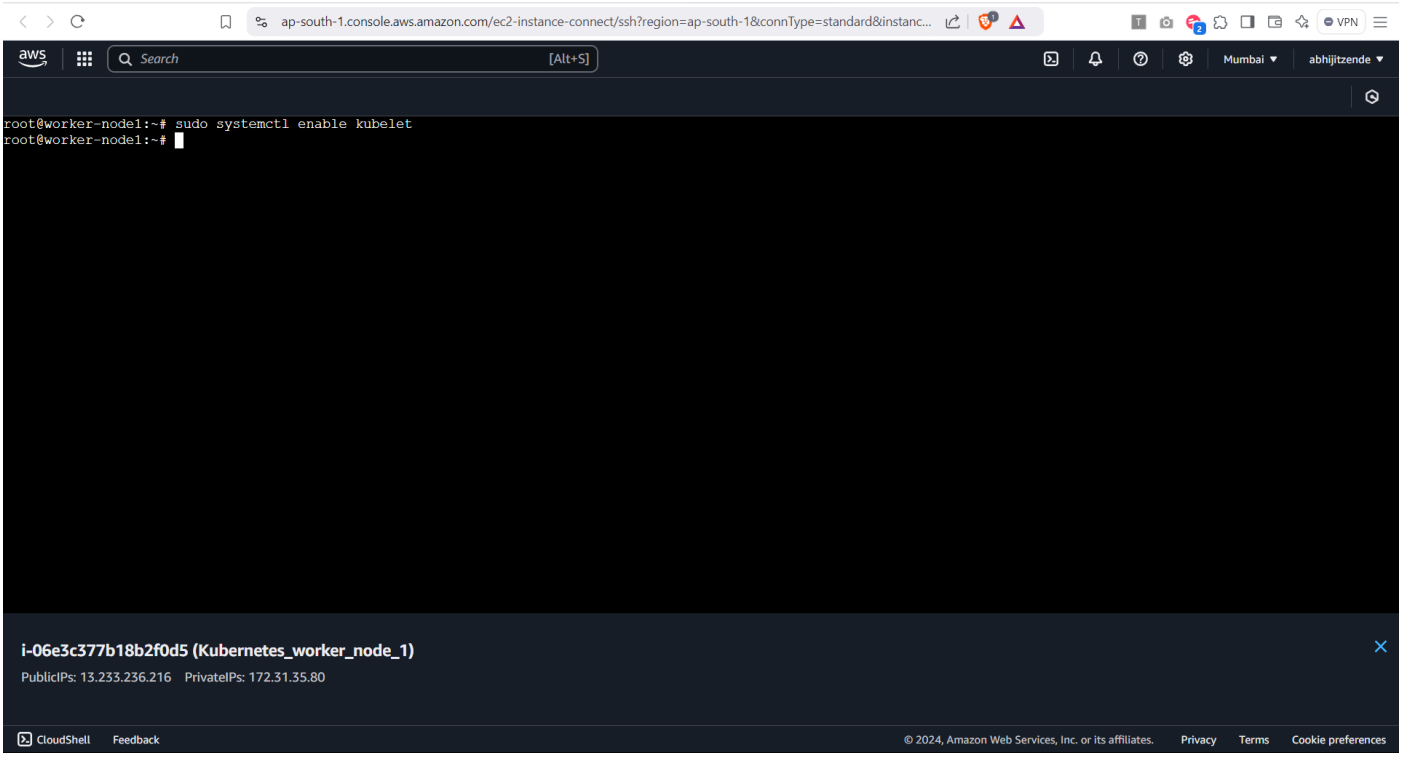
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
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abhijitzende
root@worker-node1:~# sudo systemctl enable kubelet
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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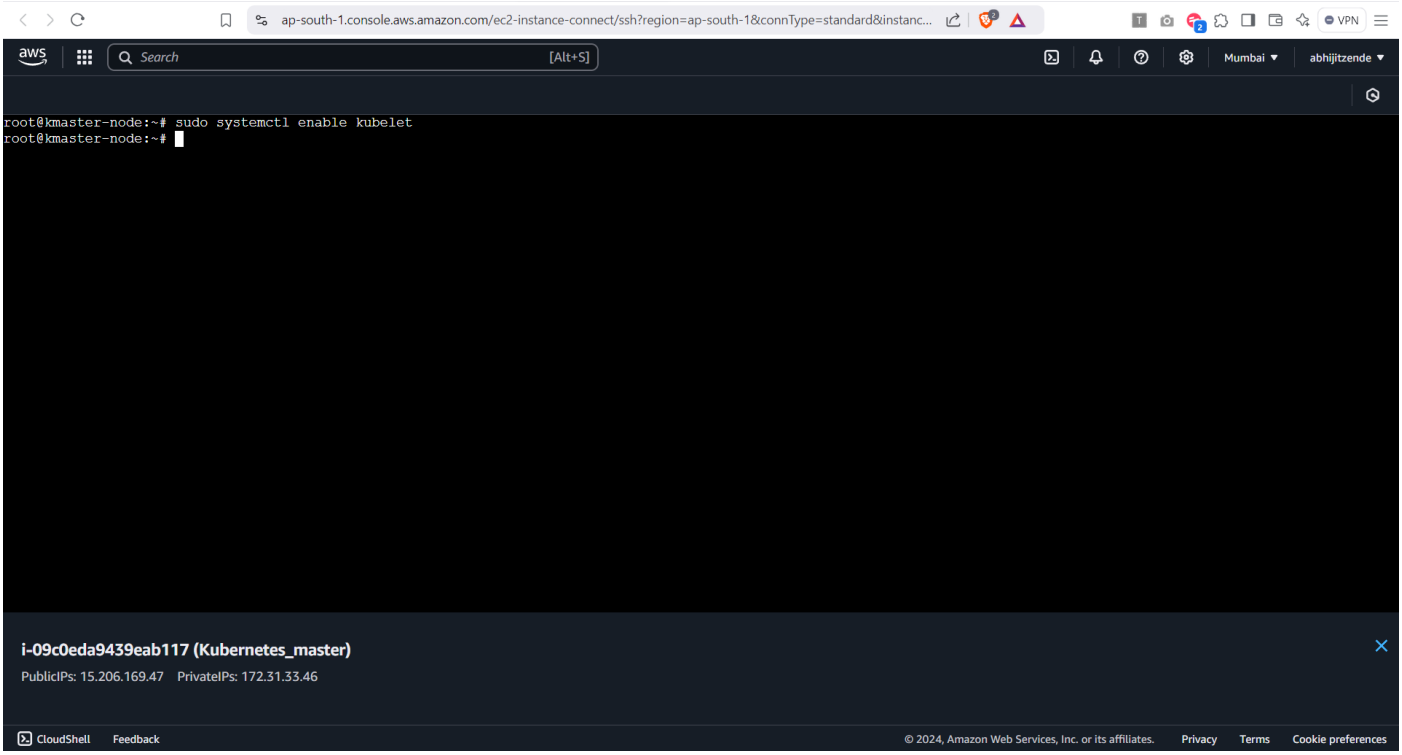
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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[Alt+S]
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root@kmaster-node:~# sudo systemctl enable kubelet
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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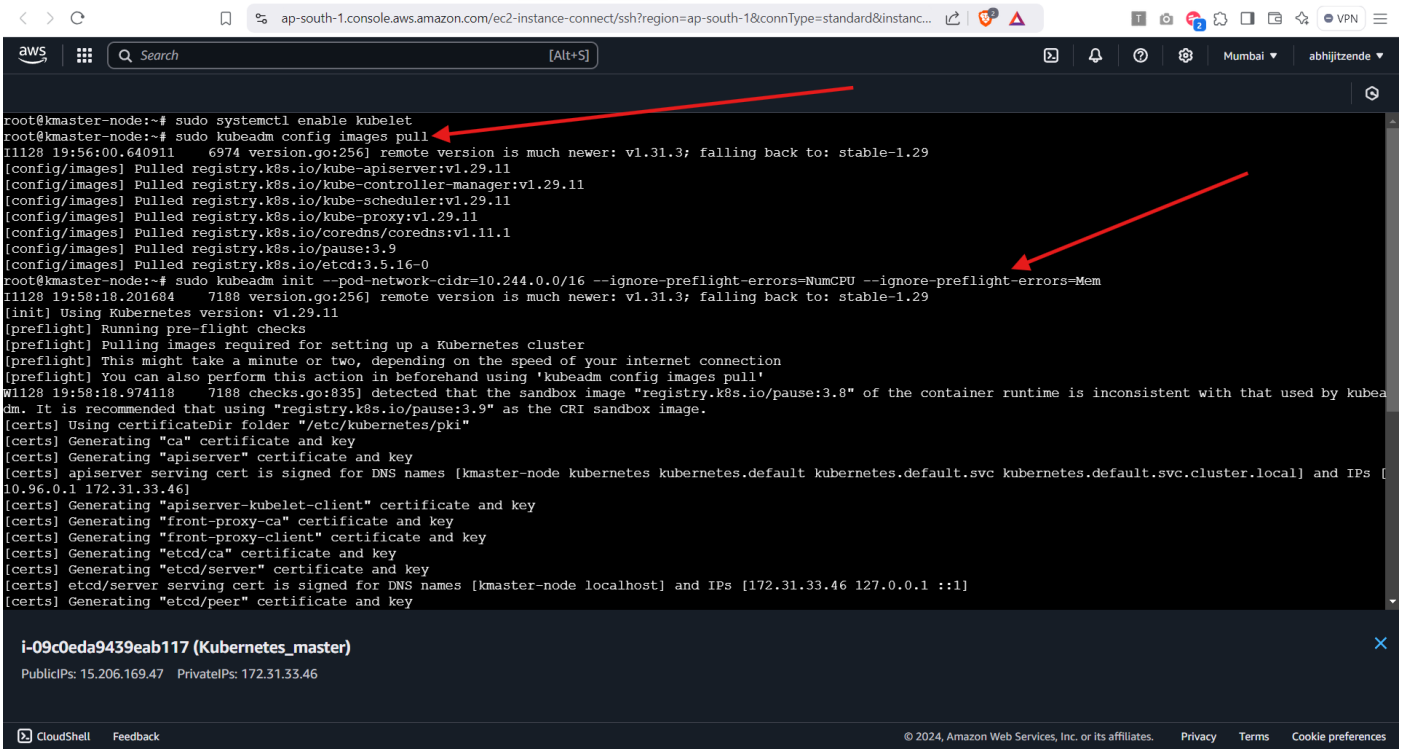
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
abhijitzende
root@kmaster-node:~# sudo systemctl enable kubelet
root@kmaster-node:~# sudo kubeadm config images pull
I1128 19:56:00.640911 6974 version.go:256] remote version is much newer: v1.31.3; falling back to: stable-1.29
[config/images] Pulled registry.k8s.io/kube-apiserver:v1.29.11
[config/images] Pulled registry.k8s.io/kube-controller-manager:v1.29.11
[config/images] Pulled registry.k8s.io/kube-scheduler:v1.29.11
[config/images] Pulled registry.k8s.io/kube-proxy:v1.29.11
[config/images] Pulled registry.k8s.io/coredns/coredns:v1.11.1
[config/images] Pulled registry.k8s.io/pause:3.9
[config/images] Pulled registry.k8s.io/etcd:3.5.16-0
root@kmaster-node:~# sudo kubeadm init --pod-network-cidr=10.244.0.0/16 --ignore-preflight-errors=NumCPU --ignore-preflight-errors=Mem
I1128 19:58:18.201684 7188 version.go:256] remote version is much newer: v1.31.3; falling back to: stable-1.29
[init] Using Kubernetes version: v1.29.11
[preflight] Running pre-flight checks
[preflight] Pulling images required for setting up a Kubernetes cluster
[preflight] This might take a minute or two, depending on the speed of your internet connection
[preflight] You can also perform this action in beforehand using 'kubeadm config images pull'
W1128 19:58:18.974118 7188 checks.go:835] detected that the sandbox image "registry.k8s.io/pause:3.8" of the container runtime is inconsistent with that used by kubea
dm. It is recommended that using "registry.k8s.io/pause:3.9" as the CRI sandbox image.
[certs] Using certificateDir folder "/etc/kubernetes/pki"
[certs] Generating "ca" certificate and key
[certs] Generating "apiserver" certificate and key
[certs] apiserver serving cert is signed for DNS names [kmaster-node kubernetes kubernetes.default kubernetes.default.svc kubernetes.default.svc.cluster.local] and IPs [
10.96.0.1 172.31.33.46]
[certs] Generating "apiserver-kubelet-client" certificate and key
[certs] Generating "front-proxy-ca" certificate and key
[certs] Generating "front-proxy-client" certificate and key
[certs] Generating "etcd/ca" certificate and key
[certs] Generating "etcd/server" certificate and key
[certs] etcd/server serving cert is signed for DNS names [kmaster-node localhost] and IPs [172.31.33.46 127.0.0.1 ::1]
[certs] Generating "etcd/peer" certificate and key
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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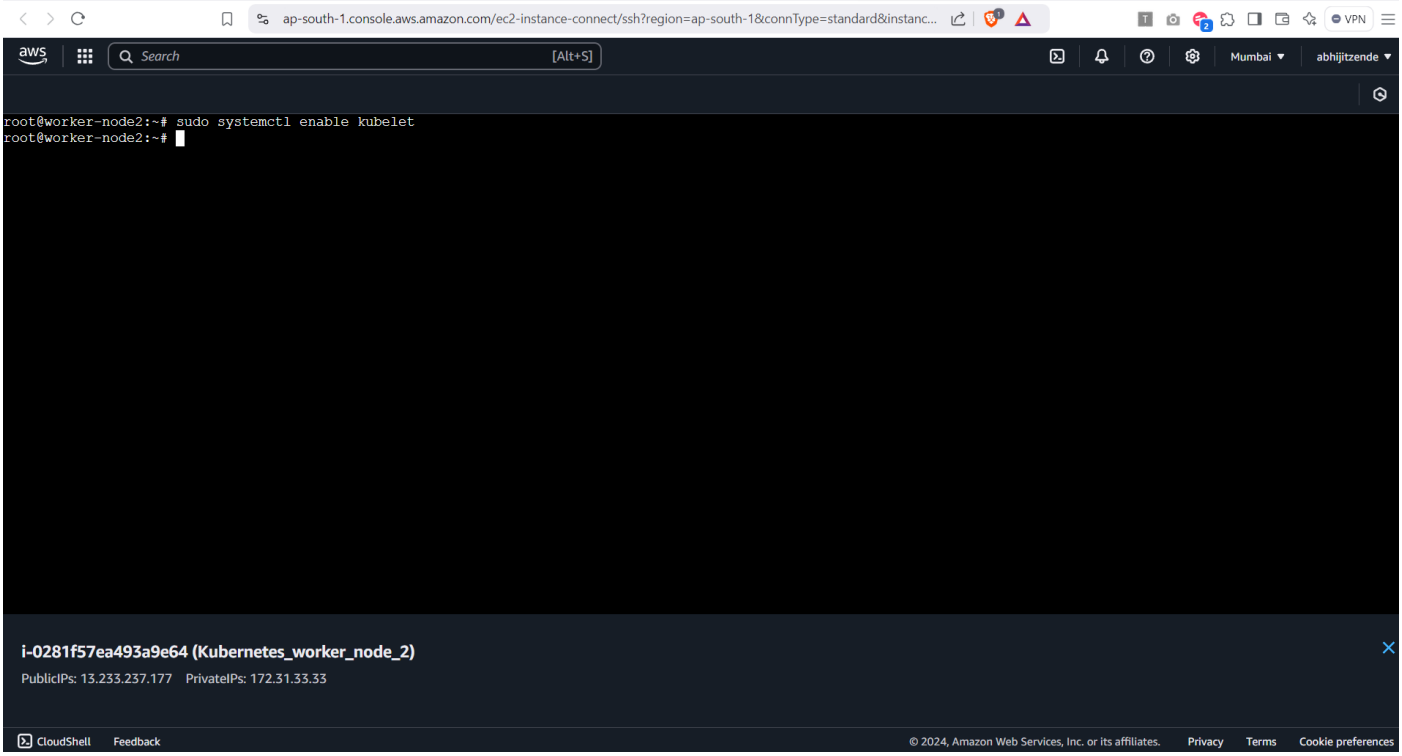
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
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root@worker-node2:~# sudo systemctl enable kubelet
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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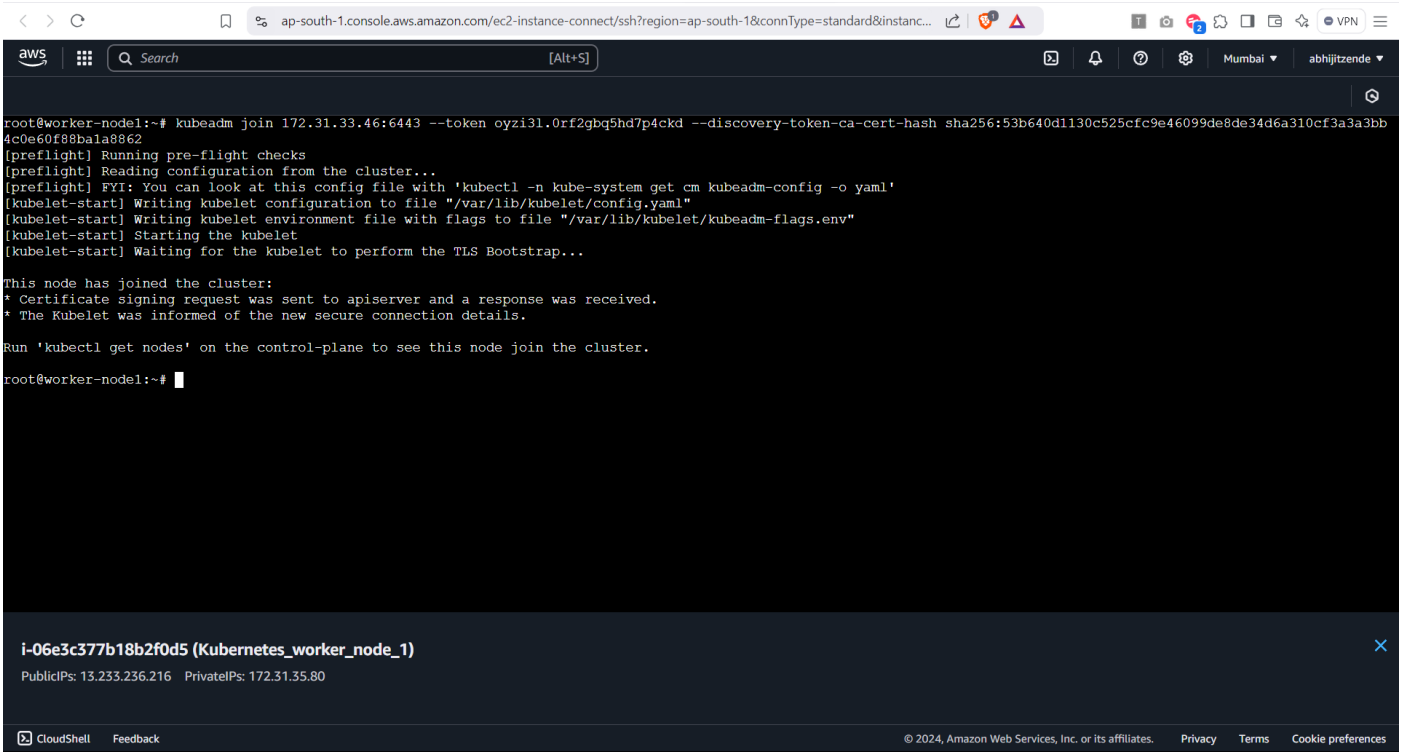
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
abhijitzende
root@worker-node1:~# kubeadm join 172.31.33.46:6443 --token oyzi31.0rf2gbq5hd7p4ckd --discovery-token-ca-cert-hash sha256:53b640d1130c525cfc9e46099de8de34d6a310cf3a3a3bb4c0e60f88ba1a8862
[preflight] Running pre-flight checks
[preflight] Reading configuration from the cluster...
[preflight] FYI: You can look at this config file with 'kubectl -n kube-system get cm kubeadm-config -o yaml'
[kubelet-start] Writing kubelet configuration to file "/var/lib/kubelet/config.yaml"
[kubelet-start] Writing kubelet environment file with flags to file "/var/lib/kubelet/kubeadm-flags.env"
[kubelet-start] Starting the kubelet
[kubelet-start] Waiting for the kubelet to perform the TLS Bootstrap...
This node has joined the cluster:
* Certificate signing request was sent to apiserver and a response was received.
* The Kubelet was informed of the new secure connection details.
Run 'kubectl get nodes' on the control-plane to see this node join the cluster.
root@worker-node1:~#
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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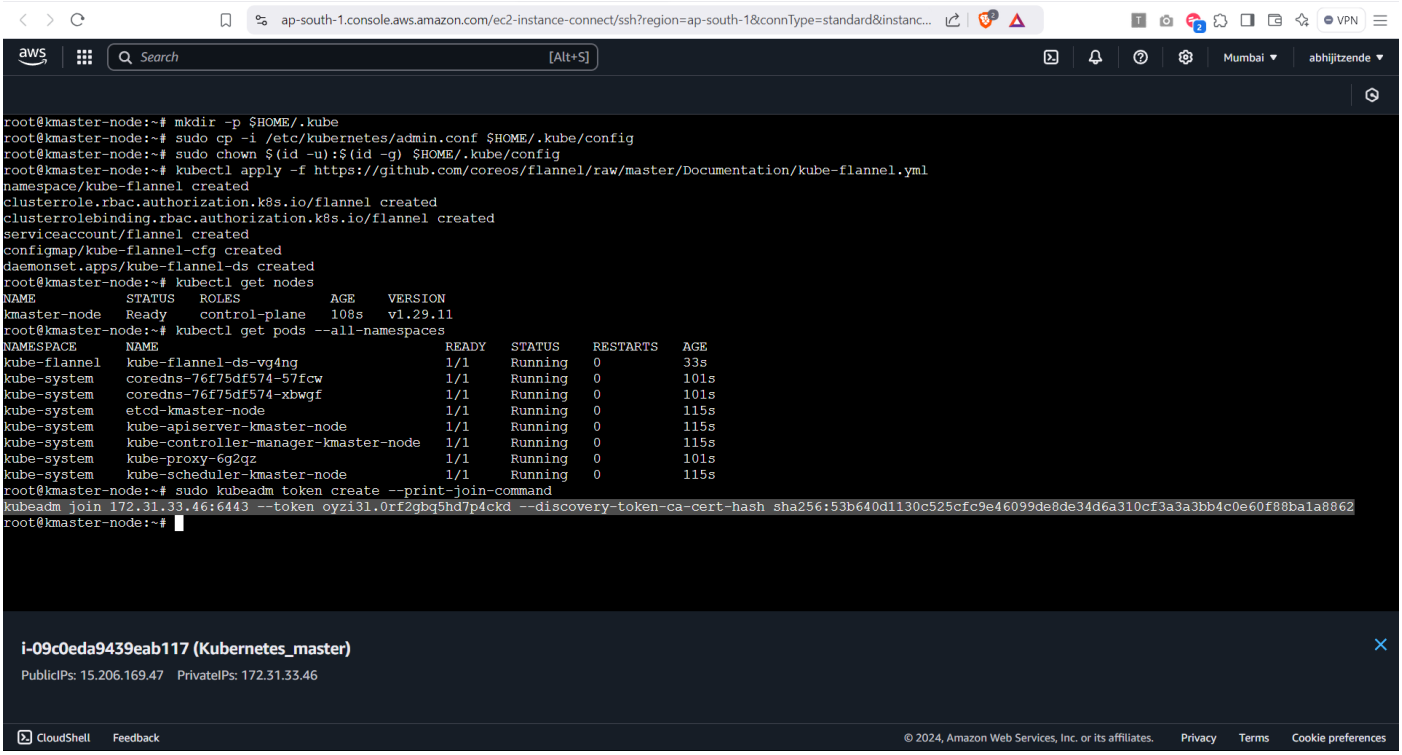
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
abhijitzende
root@kmaster-node:~# mkdir -p $HOME/.kube
root@kmaster-node:~# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@kmaster-node:~# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@kmaster-node:~# kubectl apply -f https://github.com/coreos/flannel/raw/master/Documentation/kube-flannel.yml
namespace/kube-flannel created
clusterrole.rbac.authorization.k8s.io/flannel created
clusterrolebinding.rbac.authorization.k8s.io/flannel created
serviceaccount/flannel created
configmap/kube-flannel-cfg created
daemonset.apps/kube-flannel-ds created
root@kmaster-node:~# kubectl get nodes
NAME STATUS ROLES AGE VERSION
kmaster-node Ready control-plane 108s v1.29.11
root@kmaster-node:~# kubectl get pods --all-namespaces
NAMESPACE NAME READY STATUS RESTARTS AGE
kube-flannel kube-flannel-ds-vg4ng 1/1 Running 0 33s
kube-system coredns-76f75df574-57fcw 1/1 Running 0 101s
kube-system coredns-76f75df574-xbwgf 1/1 Running 0 101s
kube-system etcd-kmaster-node 1/1 Running 0 115s
kube-system kube-apiserver-kmaster-node 1/1 Running 0 115s
kube-system kube-controller-manager-kmaster-node 1/1 Running 0 115s
kube-system kube-proxy-6g2qz 1/1 Running 0 101s
kube-system kube-scheduler-kmaster-node 1/1 Running 0 115s
root@kmaster-node:~# sudo kubeadm token create --print-join-command
kubeadm join 172.31.33.46:6443 --token oyzi31.0rf2gbq5hd7p4ckd --discovery-token-ca-cert-hash sha256:53b640d1130c525cfc9e46099de8de34d6a310cf3a3a3bb4c0e60f88ba1a8862
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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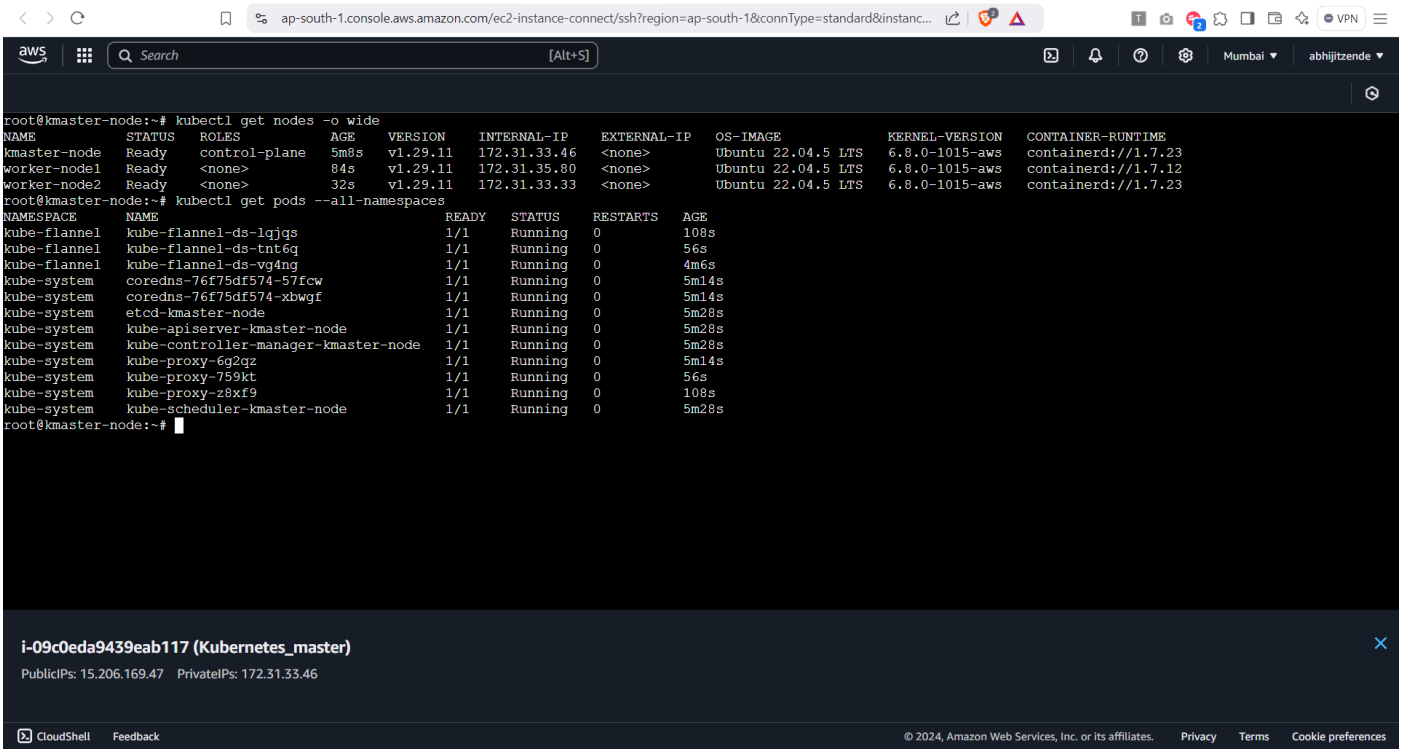
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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root@kmaster-node:~# kubectl get nodes -o wide
NAME STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME
kmaster-node Ready control-plane 5m8s v1.29.11 172.31.33.46 <none> Ubuntu 22.04.5 LTS 6.8.0-1015-aws containerd://1.7.23
worker-node1 Ready <none> 84s v1.29.11 172.31.35.80 <none> Ubuntu 22.04.5 LTS 6.8.0-1015-aws containerd://1.7.12
worker-node2 Ready <none> 32s v1.29.11 172.31.33.33 <none> Ubuntu 22.04.5 LTS 6.8.0-1015-aws containerd://1.7.23
root@kmaster-node:~# kubectl get pods --all-namespaces
NAMESPACE NAME READY STATUS RESTARTS AGE
kube-flannel kube-flannel-ds-lqjqs 1/1 Running 0 108s
kube-flannel kube-flannel-ds-tnt6q 1/1 Running 0 56s
kube-flannel kube-flannel-ds-vg4ng 1/1 Running 0 4m6s
kube-system coredns-76f75df574-57fcw 1/1 Running 0 5m14s
kube-system coredns-76f75df574-xbwgf 1/1 Running 0 5m14s
kube-system etcd-kmaster-node 1/1 Running 0 5m28s
kube-system kube-apiserver-kmaster-node 1/1 Running 0 5m28s
kube-system kube-controller-manager-kmaster-node 1/1 Running 0 5m28s
kube-system kube-proxy-6g2qz 1/1 Running 0 5m14s
kube-system kube-proxy-759kt 1/1 Running 0 56s
kube-system kube-proxy-z8xf9 1/1 Running 0 108s
kube-system kube-scheduler-kmaster-node 1/1 Running 0 5m28s
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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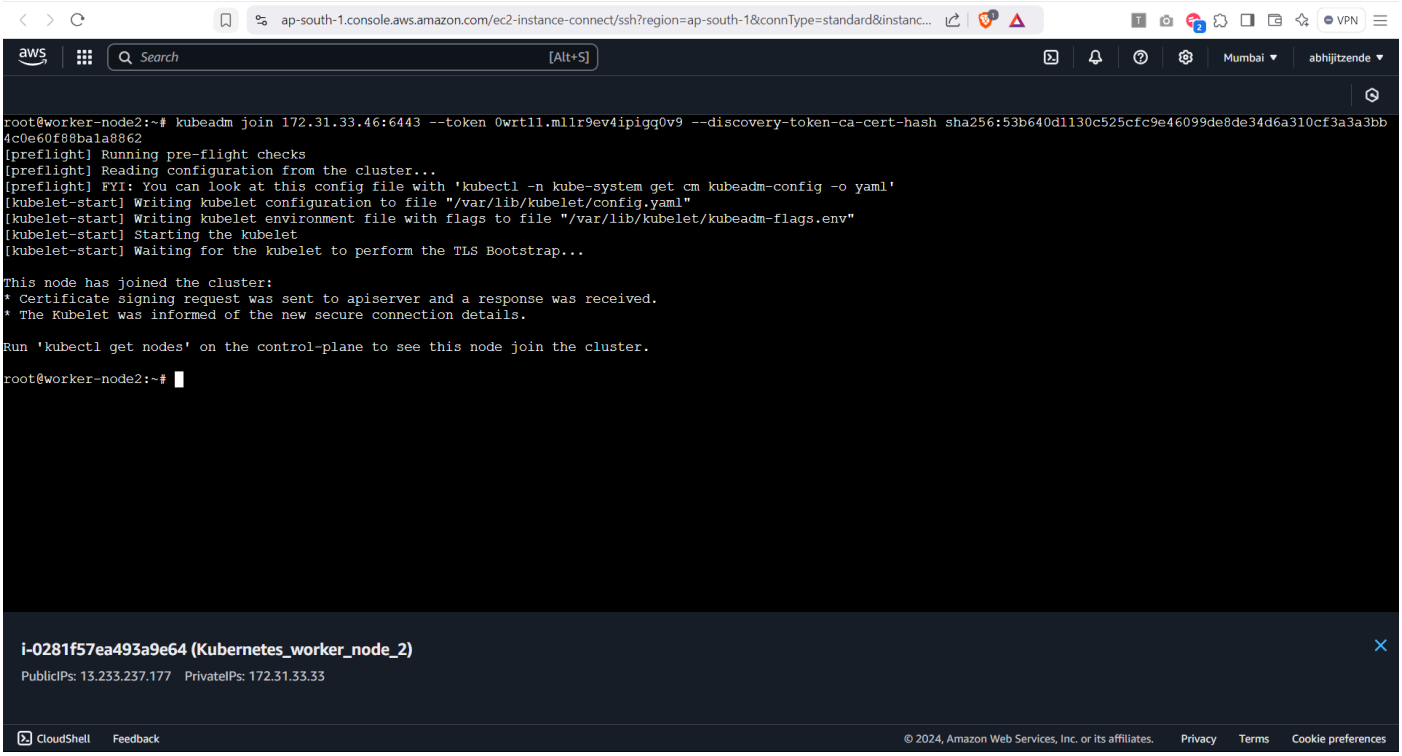
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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[Alt+S]
Mumbai
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root@worker-node2:~# kubeadm join 172.31.33.46:6443 --token 0wrt11.ml1r9ev4ipigq0v9 --discovery-token-ca-cert-hash sha256:53b640d1130c525cfc9e46099de8de34d6a310cf3a3a3bb
4c0e60f88ba1a8862
[preflight] Running pre-flight checks
[preflight] Reading configuration from the cluster...
[preflight] FYI: You can look at this config file with 'kubectl -n kube-system get cm kubeadm-config -o yaml'
[kubelet-start] Writing kubelet configuration to file "/var/lib/kubelet/config.yaml"
[kubelet-start] Writing kubelet environment file with flags to file "/var/lib/kubelet/kubeadm-flags.env"
[kubelet-start] Starting the kubelet
[kubelet-start] Waiting for the kubelet to perform the TLS Bootstrap...
This node has joined the cluster:
* Certificate signing request was sent to apiserver and a response was received.
* The Kubelet was informed of the new secure connection details.
Run 'kubectl get nodes' on the control-plane to see this node join the cluster.
root@worker-node2:~#
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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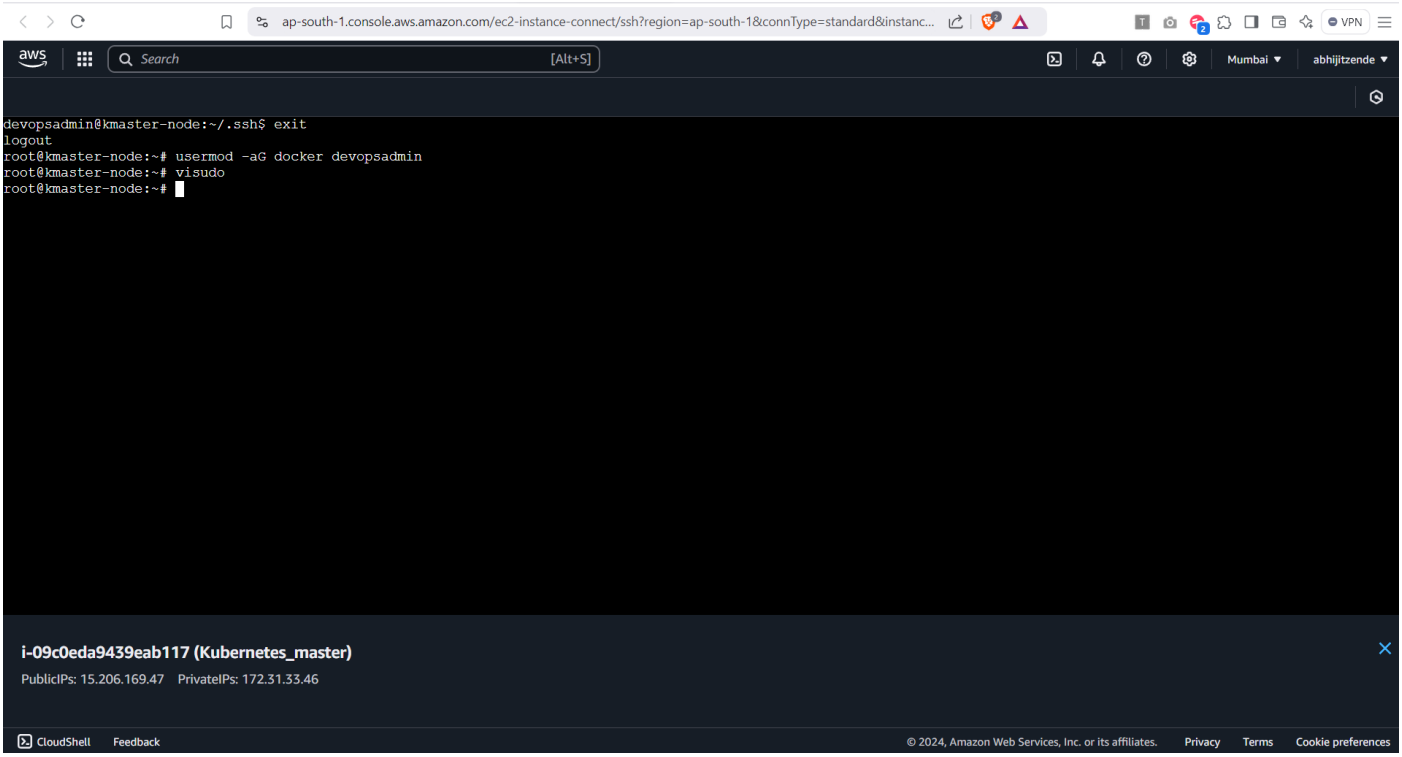
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
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devopsadmin@kmaster-node:~/.ssh$ exit
logout
root@kmaster-node:~# usermod -aG docker devopsadmin
root@kmaster-node:~# visudo
root@kmaster-node:~#
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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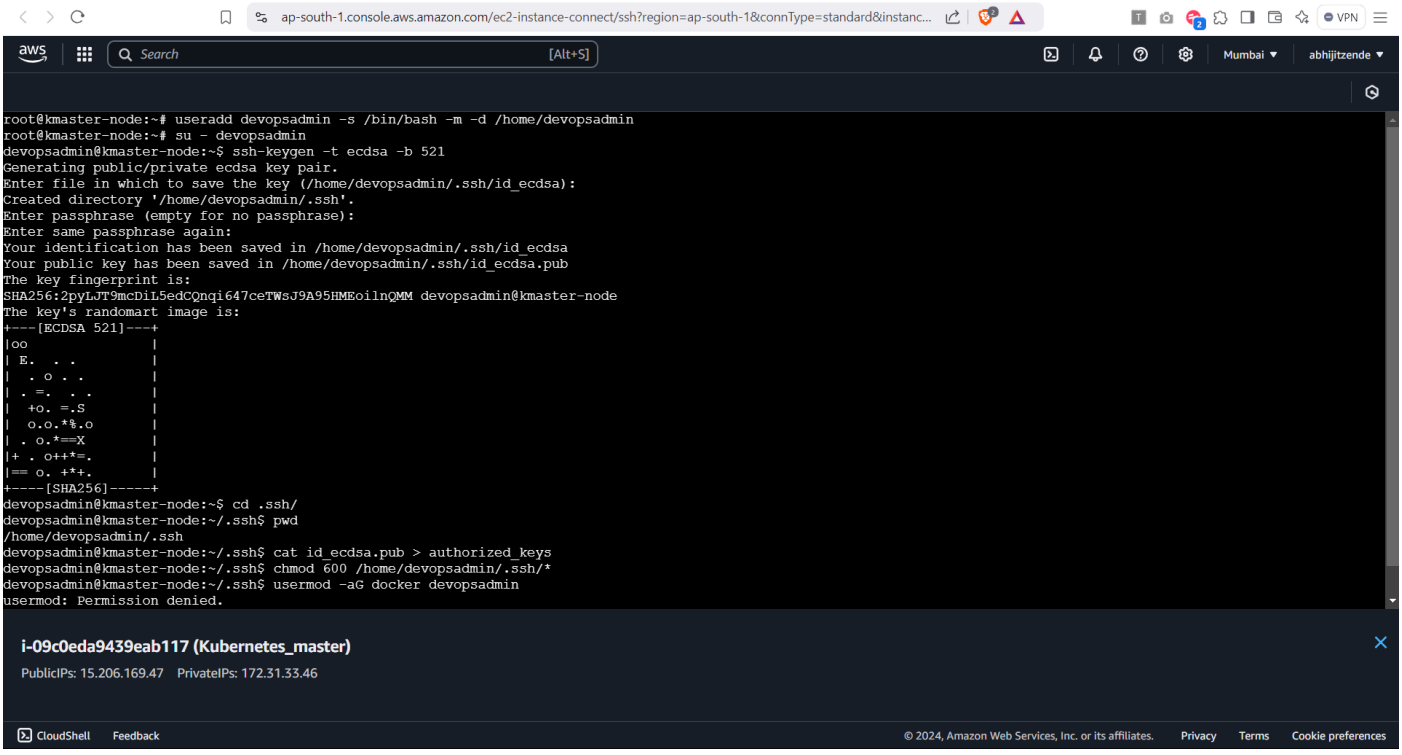
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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[Alt+S]
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root@kmaster-node:~# useradd devopsadmin -s /bin/bash -m -d /home/devopsadmin
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ ssh-keygen -t ecdsa -b 521
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/devopsadmin/.ssh/id_ecdsa):
Created directory '/home/devopsadmin/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/devopsadmin/.ssh/id_ecdsa
Your public key has been saved in /home/devopsadmin/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:2pyLJT9mcDiL5edCQnqi647ceTWsJ9A95HMEoilnQMM devopsadmin@kmaster-node
The key's randomart image is:
+---[ECDSA 521]---+
|oo |
| E. . . |
| . o . . |
| . =. . . |
| +o. =.S |
| o.o.*%.o |
| . o.*==X |
|+ . o++*=. |
|== o. +*+. |
+----[SHA256]-----+
devopsadmin@kmaster-node:~$ cd .ssh/
devopsadmin@kmaster-node:~/.ssh$ pwd
/home/devopsadmin/.ssh
devopsadmin@kmaster-node:~/.ssh$ cat id_ecdsa.pub > authorized_keys
devopsadmin@kmaster-node:~/.ssh$ chmod 600 /home/devopsadmin/.ssh/*
devopsadmin@kmaster-node:~/.ssh$ usermod -aG docker devopsadmin
usermod: Permission denied.
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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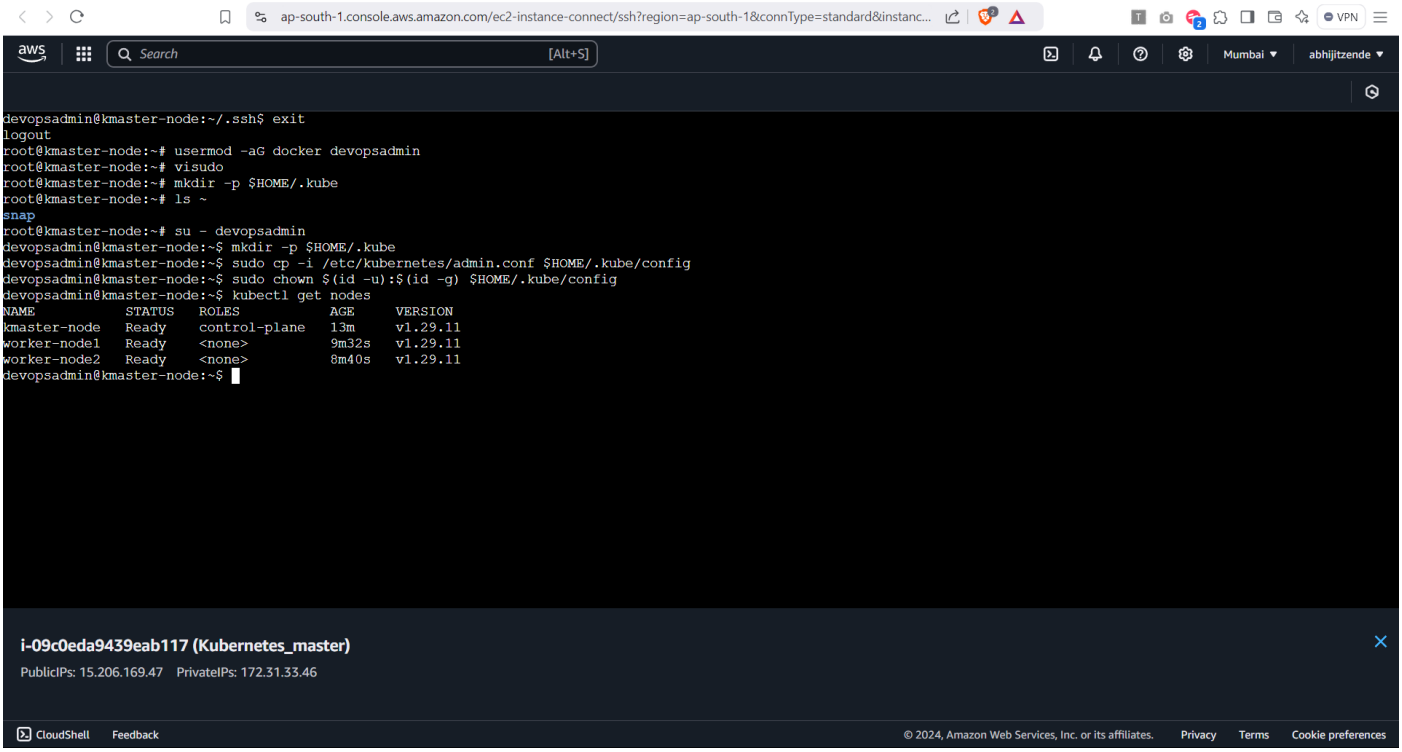
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
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devopsadmin@kmaster-node:~/.ssh$ exit
logout
root@kmaster-node:~# usermod -aG docker devopsadmin
root@kmaster-node:~# visudo
root@kmaster-node:~# mkdir -p $HOME/.kube
root@kmaster-node:~# ls ~
snap
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ mkdir -p $HOME/.kube
devopsadmin@kmaster-node:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
devopsadmin@kmaster-node:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
devopsadmin@kmaster-node:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
kmaster-node Ready control-plane 13m v1.29.11
worker-node1 Ready <none> 9m32s v1.29.11
worker-node2 Ready <none> 8m40s v1.29.11
devopsadmin@kmaster-node:~$
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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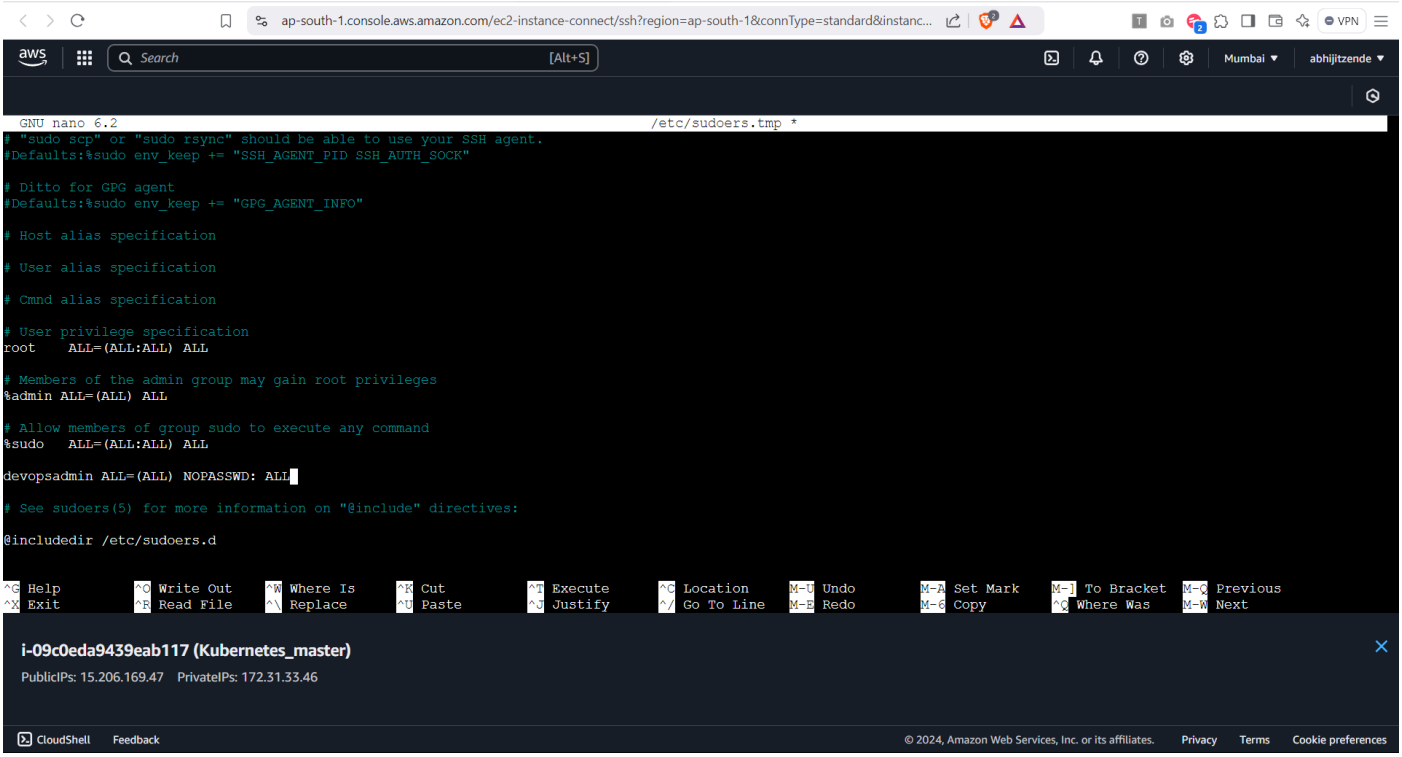
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
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GNU nano 6.2 /etc/sudoers.tmp *
"sudo scp" or "sudo rsync" should be able to use your SSH agent.
#Defaults:%sudo env_keep += "SSH_AGENT_PID SSH_AUTH_SOCK"
Ditto for GPG agent
#Defaults:%sudo env_keep += "GPG_AGENT_INFO"
Host alias specification
User alias specification
Cmnd alias specification
User privilege specification
root ALL=(ALL:ALL) ALL
Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
devopsadmin ALL=(ALL) NOPASSWD: ALL
See sudoers(5) for more information on "@include" directives:
@includedir /etc/sudoers.d
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 15.206.169.47 PrivateIPs: 172.31.33.46
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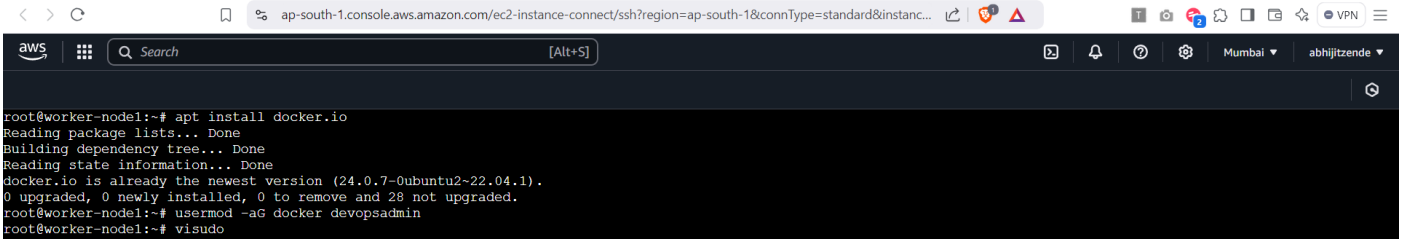
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
VPN
aws
Search
[Alt+S]
Mumbai
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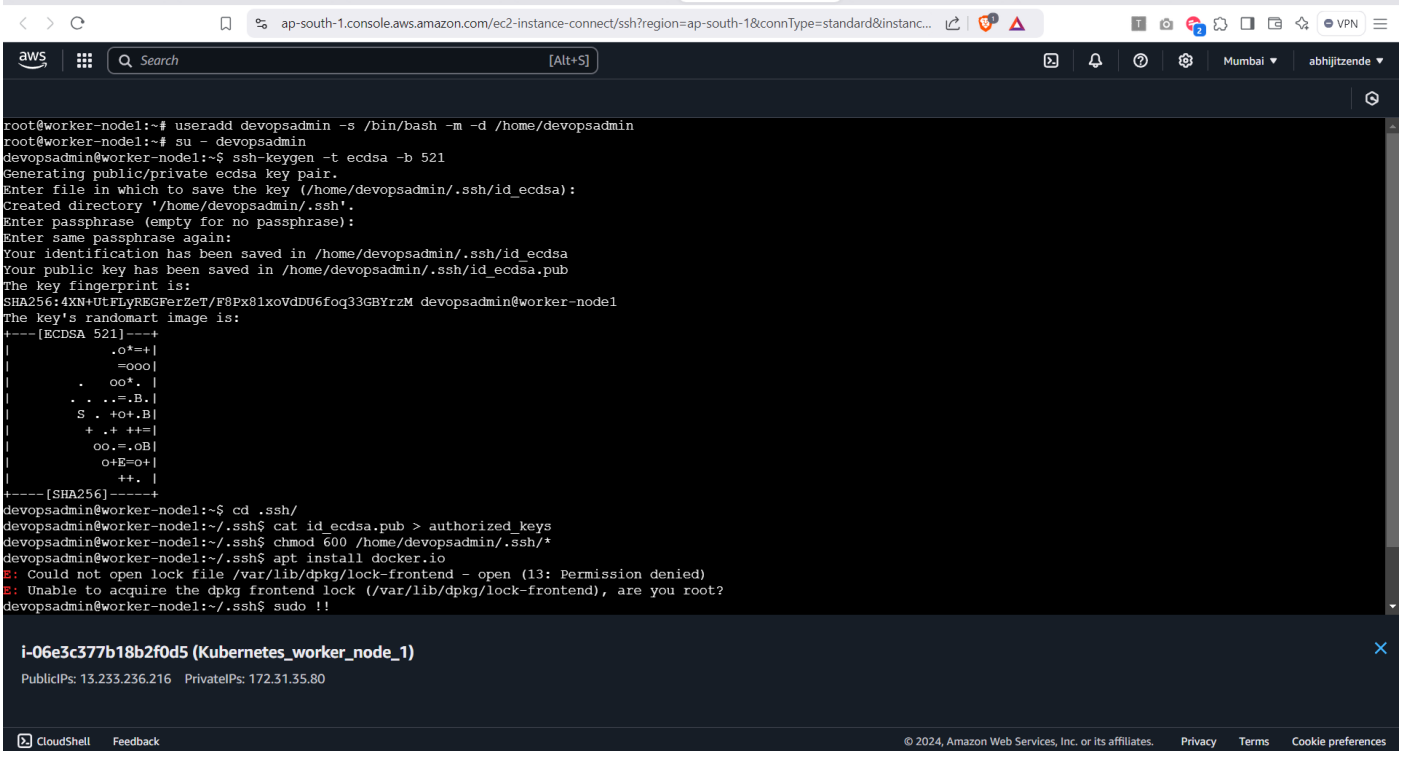
root@worker-node1:~# apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (24.0.7-0ubuntu2~22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
root@worker-node1:~# usermod -aG docker devopsadmin
root@worker-node1:~# visudo


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
VPN
aws
Search
[Alt+S]
Mumbai
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root@worker-node1:~# useradd devopsadmin -s /bin/bash -m -d /home/devopsadmin
root@worker-node1:~# su - devopsadmin
devopsadmin@worker-node1:~$ ssh-keygen -t ecdsa -b 521
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/devopsadmin/.ssh/id_ecdsa):
Created directory '/home/devopsadmin/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/devopsadmin/.ssh/id_ecdsa
Your public key has been saved in /home/devopsadmin/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:4XN+UtFLyREGFerZeT/F8Px81xoVdDU6foq33GBYrzM devopsadmin@worker-node1
The key's randomart image is:
+---[ECDSA 521]---+
| .o*=+|
| =ooo|
| .   oo*. |
| . . ..=.B.|
| S . +o+.B|
| + .+ ++=|
| oo.=.oB|
| o+E=o+|
| ++. |
+----[SHA256]-----+
devopsadmin@worker-node1:~$ cd .ssh/
devopsadmin@worker-node1:~/.ssh$ cat id_ecdsa.pub > authorized_keys
devopsadmin@worker-node1:~/.ssh$ chmod 600 /home/devopsadmin/.ssh/*
devopsadmin@worker-node1:~/.ssh$ apt install docker.io
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
devopsadmin@worker-node1:~/.ssh$ sudo !!
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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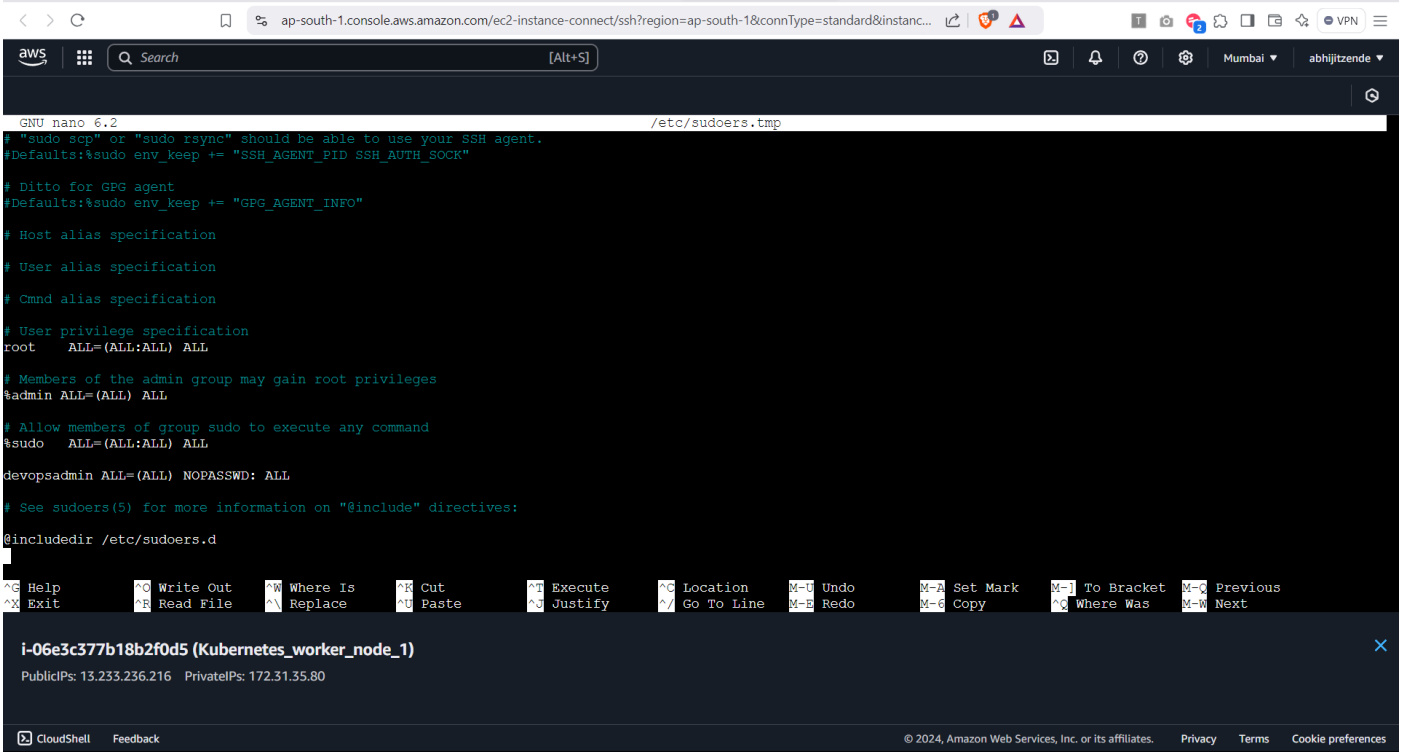
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
GNU nano 6.2 /etc/sudoers.tmp
"sudo scp" or "sudo rsync" should be able to use your SSH agent.
#Defaults:%sudo env_keep += "SSH_AGENT_PID SSH_AUTH_SOCK"
Ditto for GPG agent
#Defaults:%sudo env_keep += "GPG_AGENT_INFO"
Host alias specification
User alias specification
Cmnd alias specification
User privilege specification
root ALL=(ALL:ALL) ALL
Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
devopsadmin ALL=(ALL) NOPASSWD: ALL
See sudoers(5) for more information on "@include" directives:
@includedir /etc/sudoers.d
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
PublicIPs: 13.233.236.216 PrivateIPs: 172.31.35.80
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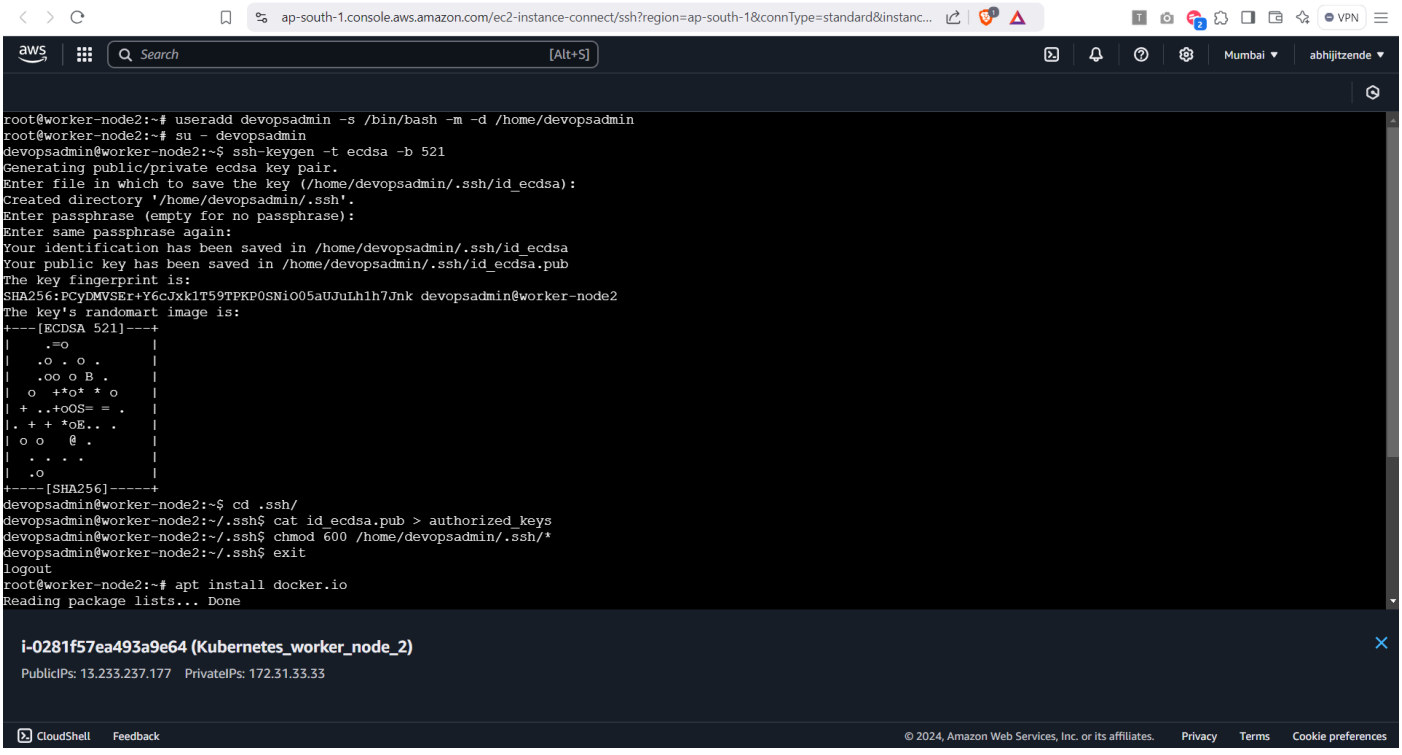
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
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root@worker-node2:~# useradd devopsadmin -s /bin/bash -m -d /home/devopsadmin
root@worker-node2:~# su - devopsadmin
devopsadmin@worker-node2:~$ ssh-keygen -t ecdsa -b 521
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/devopsadmin/.ssh/id_ecdsa):
Created directory '/home/devopsadmin/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/devopsadmin/.ssh/id_ecdsa
Your public key has been saved in /home/devopsadmin/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:PCyDMVSEr+Y6cJxk1T59TPKP0SNiO05aUJuLh1h7Jnk devopsadmin@worker-node2
The key's randomart image is:
+---[ECDSA 521]---+
| .=o |
| .o . o . |
| .oo o B . |
| o +*o* * o |
| + ..+oOS= = . |
|. + + *oE.. . |
| o o @ . |
| . . . . |
| .o |
+----[SHA256]-----+
devopsadmin@worker-node2:~$ cd .ssh/
devopsadmin@worker-node2:~/.ssh$ cat id_ecdsa.pub > authorized_keys
devopsadmin@worker-node2:~/.ssh$ chmod 600 /home/devopsadmin/.ssh/*
devopsadmin@worker-node2:~/.ssh$ exit
logout
root@worker-node2:~# apt install docker.io
Reading package lists... Done
i-0281f57ea493a9e64 (Kubernetes_worker_node_2)
PublicIPs: 13.233.237.177 PrivateIPs: 172.31.33.33
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2. L2 – Create Deployment Controller Object to Deploy the Application Image Created in Docker Module and Expose it to the Internet

Ans.

Step 1: SSH into master node:

Step 2: Verify Kubernetes Nodes:

1. Check the status of your Kubernetes cluster nodes
   ```
   kubectl get nodes
   ```

Step 3: Create a Deployment YAML File

1. Save the following as **deployment.yaml**
   ```
   apiVersion: apps/v1
   kind: Deployment
   metadata:
     name: tomcat-deployment
     labels:
       app: tomcat
   spec:
     replicas: 2
     selector:
       matchLabels:
         app: tomcat
     template:
       metadata:
         labels:
           app: tomcat
       spec:
         containers:
         - name: tomcat
           image: abhiz2411/tomcat_web_img:7
           ports:
           - containerPort: 8080
   ```

Step 4: Apply the Deployment:

1. Deploy the application to your cluster
   ```
   kubectl apply -f deployment.yaml
   ```

Step 5: Verify the Deployment

1. Confirm that the pods are running:
   ```
   kubectl get pods
   ```

Step 6: Create a Service YAML File

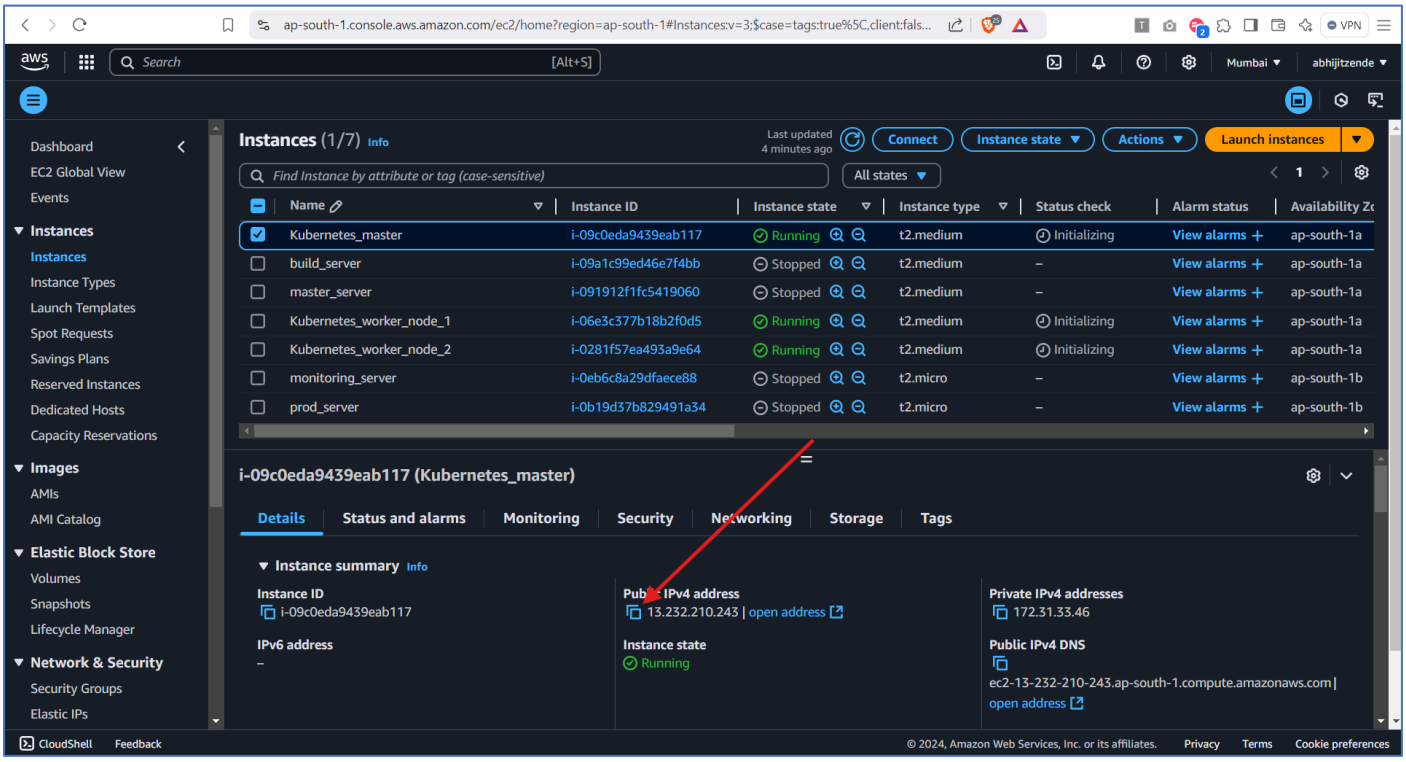
1. Save the following as **service.yaml**
   ```
   apiVersion: v1
   kind: Service
   metadata:
     name: tomcat-service
   spec:
     type: NodePort
     selector:
       app: tomcat
     ports:
     - protocol: TCP
       port: 8080
       targetPort: 8080
       nodePort: 30007  # NodePort to expose on the cluster
   ```

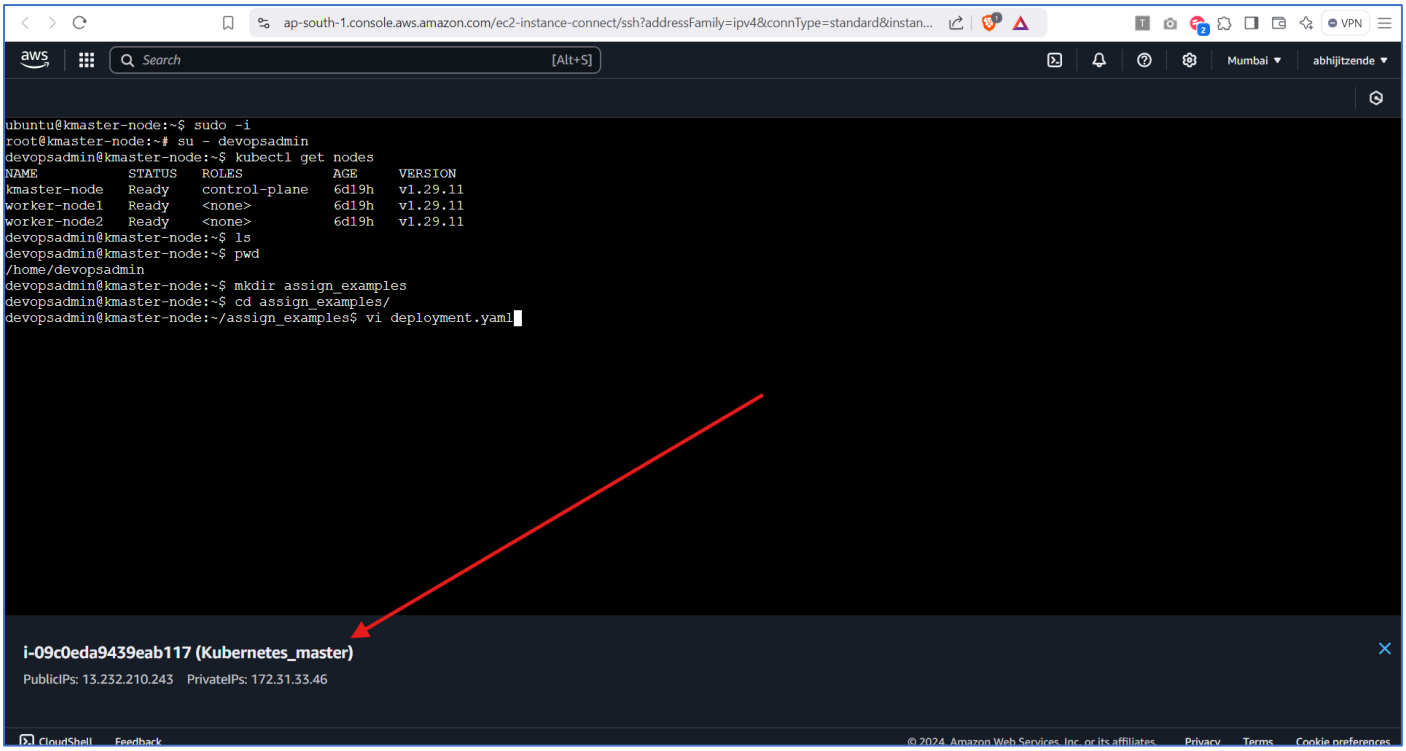
Step 7: Verify the Service

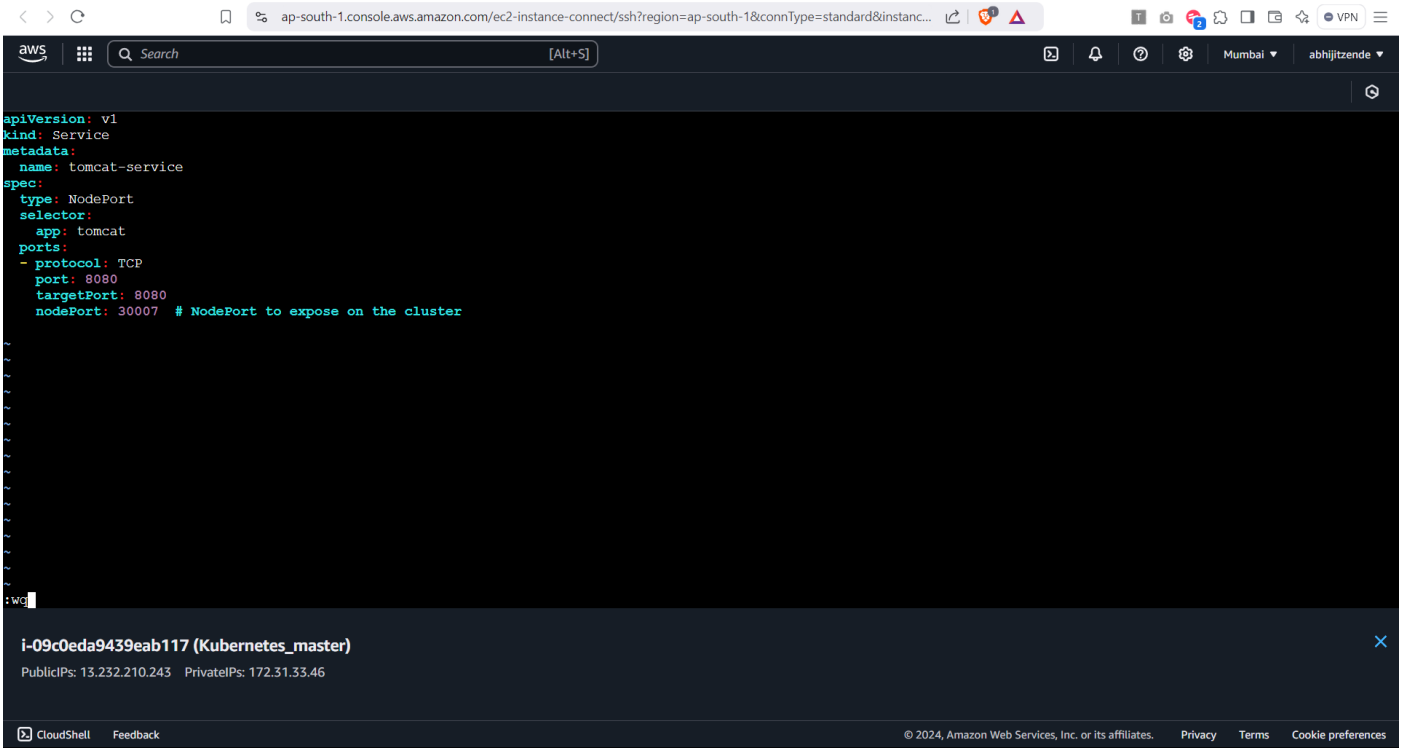
1. Check the service details
   ``` kubectl get service tomcat-service ```
   ```

Step 8: Access the Application

1. Open a browser and visit **http://<node-ip>:30007**. Replace **<node-ip>** with the IP address of any Kubernetes node.






ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
[Alt+S]
Mumbai
abhijitzende
apiVersion: v1
kind: Service
metadata:
name: tomcat-service
spec:
type: NodePort
selector:
app: tomcat
ports:
- protocol: TCP
port: 8080
targetPort: 8080
nodePort: 30007 # NodePort to expose on the cluster
:wq
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 13.232.210.243 PrivateIPs: 172.31.33.46
CloudShell
Feedback
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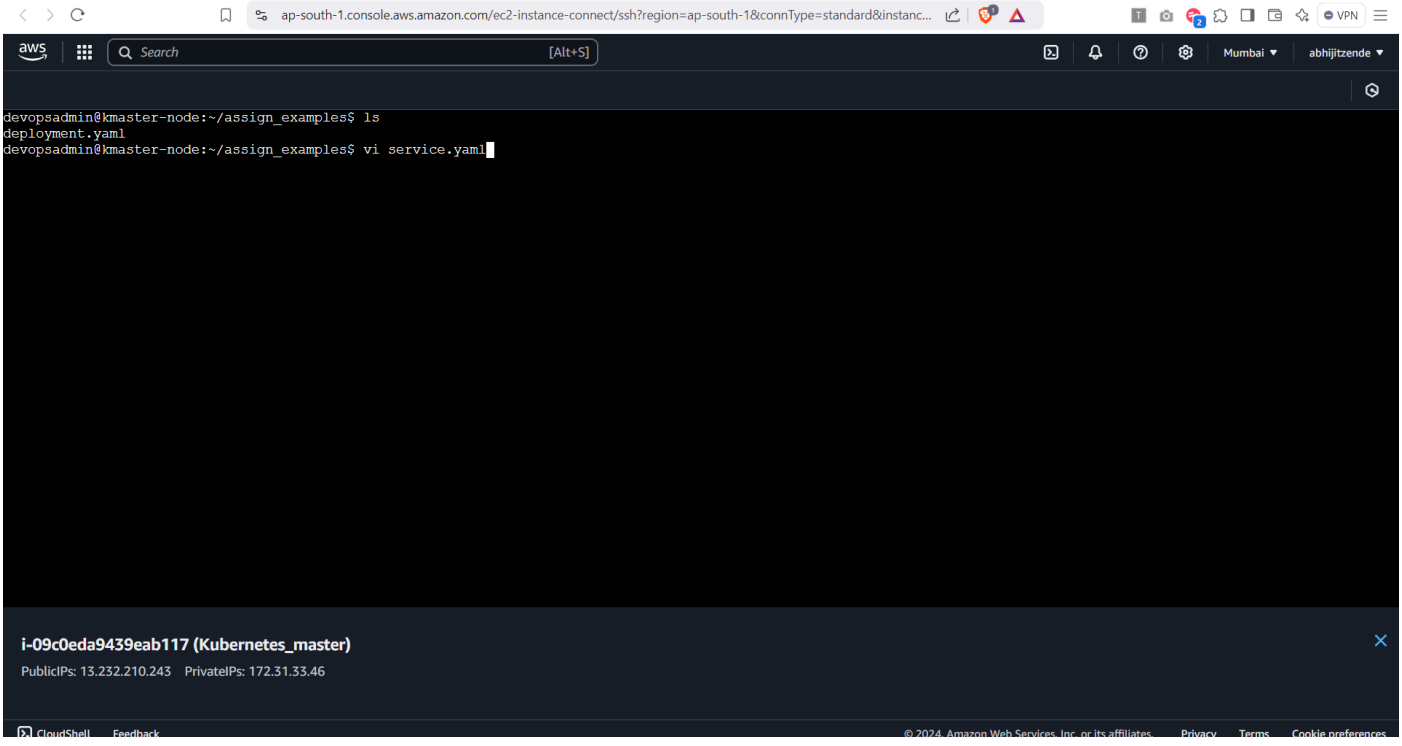
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search
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Mumbai
abhijitzende
devopsadmin@kmaster-node:~/assign_examples$ ls
deployment.yaml
devopsadmin@kmaster-node:~/assign_examples$ vi service.yaml
i-09c0eda9439eab117 (Kubernetes_master)
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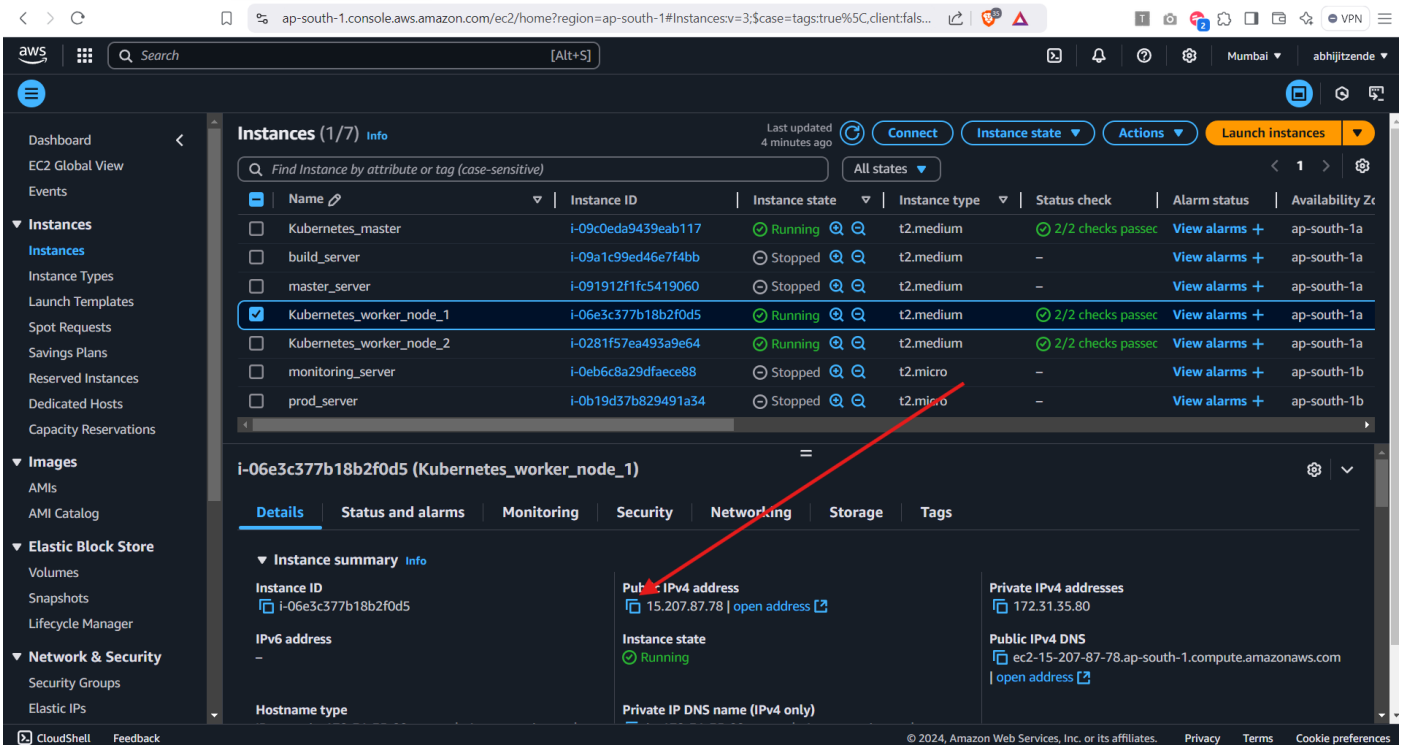
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:v=3;$case=tags:true%5C,client:fals...
Search
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Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Instances (1/7) Info
Last updated 4 minutes ago
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
Availability Zo
Kubernetes_master i-09c0eda9439eab117 Running t2.medium 2/2 checks passec View alarms ap-south-1a
build_server i-09a1c99ed46e7f4bb Stopped t2.medium – View alarms ap-south-1a
master_server i-091912f1fc5419060 Stopped t2.medium – View alarms ap-south-1a
Kubernetes_worker_node_1 i-06e3c377b18b2f0d5 Running t2.medium 2/2 checks passec View alarms ap-south-1a
Kubernetes_worker_node_2 i-0281f57ea493a9e64 Running t2.medium 2/2 checks passec View alarms ap-south-1a
monitoring_server i-0eb6c8a29dfaece88 Stopped t2.micro – View alarms ap-south-1b
prod_server i-0b19d37b829491a34 Stopped t2.micro – View alarms ap-south-1b
i-06e3c377b18b2f0d5 (Kubernetes_worker_node_1)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-06e3c377b18b2f0d5
IPv6 address
–
Hostname type
Public IPv4 address
15.207.87.78 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
Private IPv4 addresses
172.31.35.80
Public IPv4 DNS
ec2-15-207-87-78.ap-south-1.compute.amazonaws.com | open address
CloudShell
Feedback
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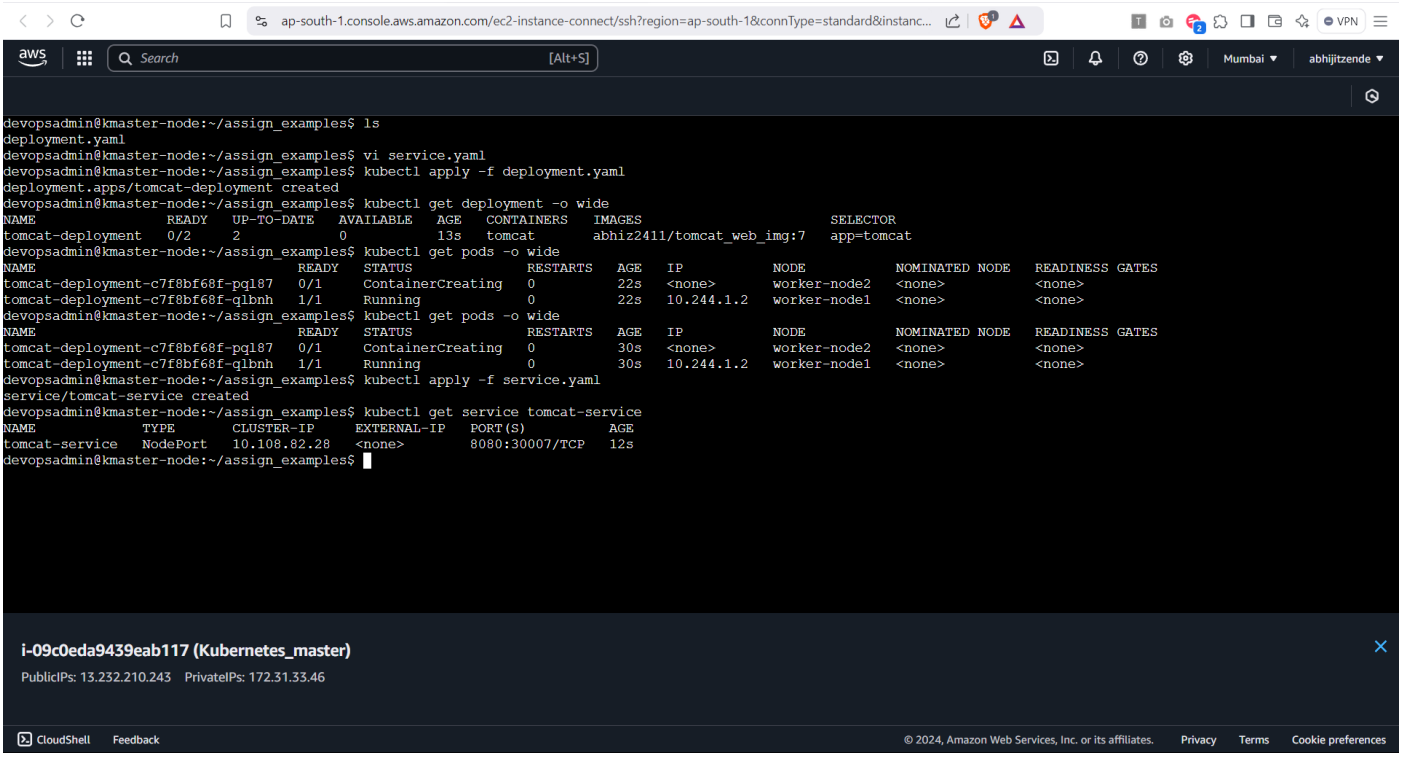
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
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devopsadmin@kmaster-node:~/assign_examples$ ls
deployment.yaml
devopsadmin@kmaster-node:~/assign_examples$ vi service.yaml
devopsadmin@kmaster-node:~/assign_examples$ kubectl apply -f deployment.yaml
deployment.apps/tomcat-deployment created
devopsadmin@kmaster-node:~/assign_examples$ kubectl get deployment -o wide
NAME READY UP-TO-DATE AVAILABLE AGE CONTAINERS IMAGES SELECTOR
tomcat-deployment 0/2 2 0 13s tomcat abhiz2411/tomcat_web_img:7 app=tomcat
devopsadmin@kmaster-node:~/assign_examples$ kubectl get pods -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
tomcat-deployment-c7f8bf68f-pql87 0/1 ContainerCreating 0 22s <none> worker-node2 <none> <none>
tomcat-deployment-c7f8bf68f-qlbnh 1/1 Running 0 22s 10.244.1.2 worker-node1 <none> <none>
devopsadmin@kmaster-node:~/assign_examples$ kubectl get pods -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
tomcat-deployment-c7f8bf68f-pql87 0/1 ContainerCreating 0 30s <none> worker-node2 <none> <none>
tomcat-deployment-c7f8bf68f-qlbnh 1/1 Running 0 30s 10.244.1.2 worker-node1 <none> <none>
devopsadmin@kmaster-node:~/assign_examples$ kubectl apply -f service.yaml
service/tomcat-service created
devopsadmin@kmaster-node:~/assign_examples$ kubectl get service tomcat-service
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
tomcat-service NodePort 10.108.82.28 <none> 8080:30007/TCP 12s
devopsadmin@kmaster-node:~/assign_examples$
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 13.232.210.243 PrivateIPs: 172.31.33.46
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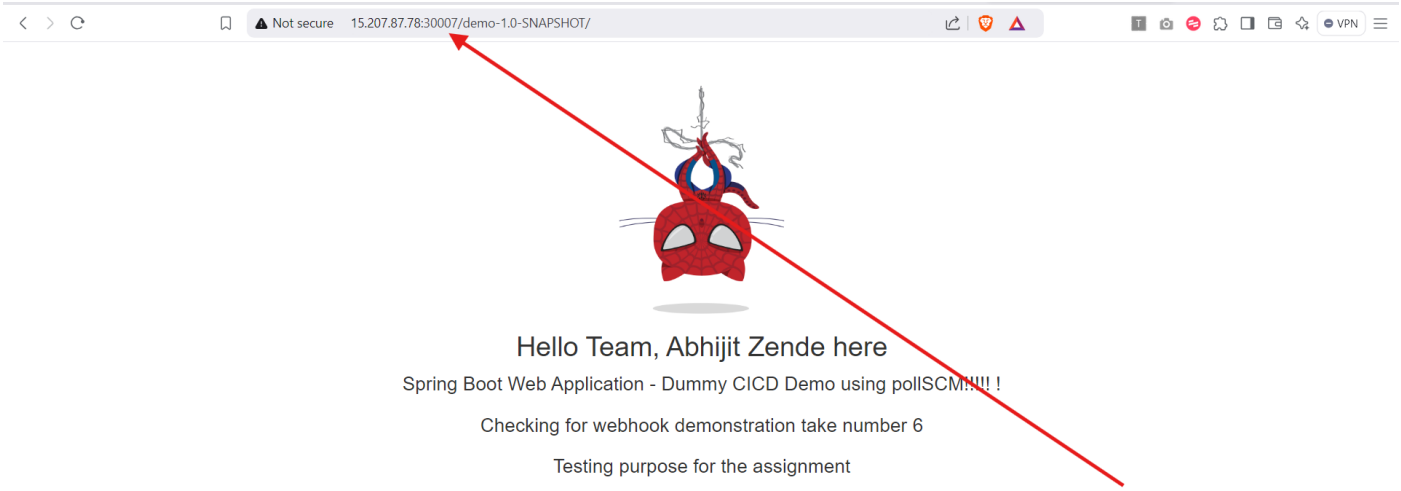
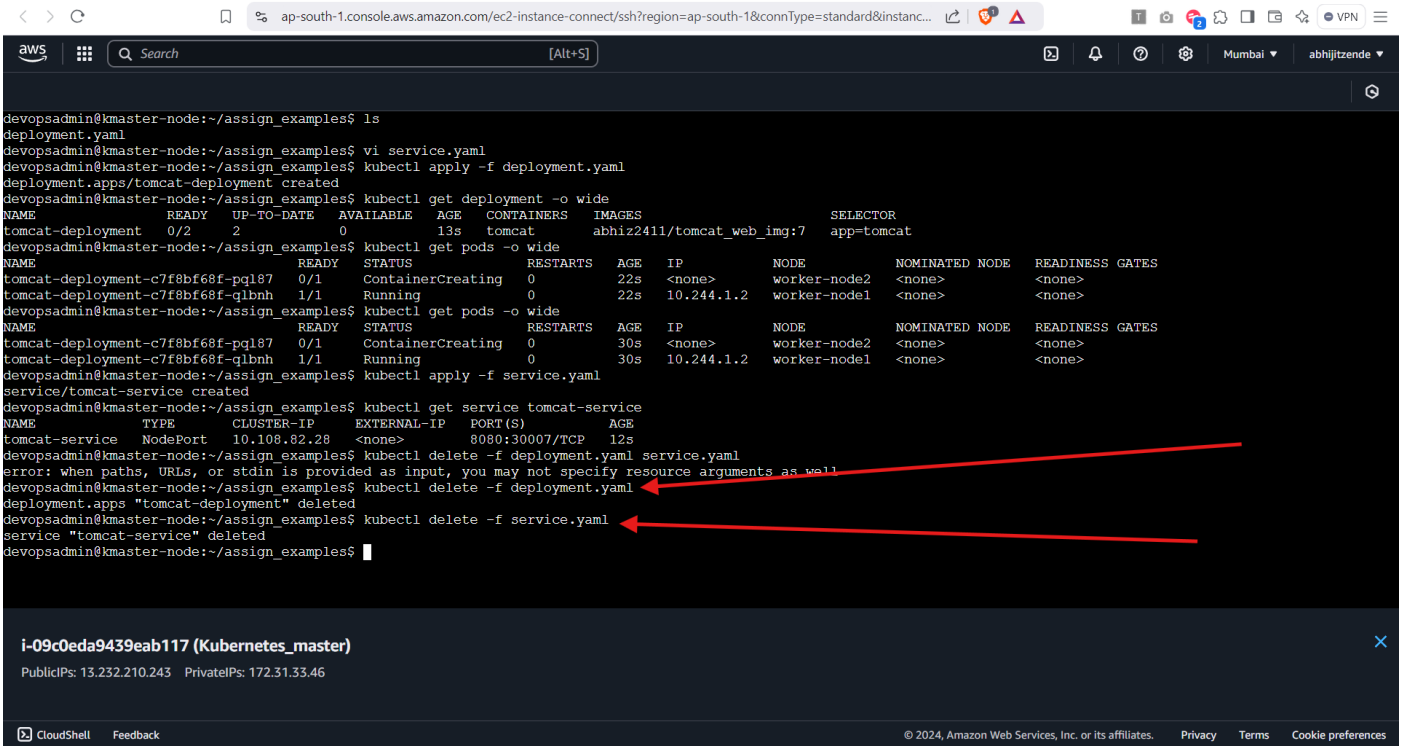

Not secure 15.207.87.78:30007/demo-1.0-SNAPSHOT/
Hello Team, Abhijit Zende here
Spring Boot Web Application - Dummy CICD Demo using pollSCM!!!!! !
Checking for webhook demonstration take number 6
Testing purpose for the assignment


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
Search [Alt+S]
Mumbai
abhijitzende
devopsadmin@kmaster-node:~/assign_examples$ ls
deployment.yaml
devopsadmin@kmaster-node:~/assign_examples$ vi service.yaml
devopsadmin@kmaster-node:~/assign_examples$ kubectl apply -f deployment.yaml
deployment.apps/tomcat-deployment created
devopsadmin@kmaster-node:~/assign_examples$ kubectl get deployment -o wide
NAME READY UP-TO-DATE AVAILABLE AGE CONTAINERS IMAGES SELECTOR
tomcat-deployment 0/2 2 0 13s tomcat abhiz2411/tomcat_web_img:7 app=tomcat
devopsadmin@kmaster-node:~/assign_examples$ kubectl get pods -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
tomcat-deployment-c7f8bf68f-pql87 0/1 ContainerCreating 0 22s <none> worker-node2 <none> <none>
tomcat-deployment-c7f8bf68f-qlbnh 1/1 Running 0 22s 10.244.1.2 worker-node1 <none> <none>
devopsadmin@kmaster-node:~/assign_examples$ kubectl get pods -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
tomcat-deployment-c7f8bf68f-pql87 0/1 ContainerCreating 0 30s <none> worker-node2 <none> <none>
tomcat-deployment-c7f8bf68f-qlbnh 1/1 Running 0 30s 10.244.1.2 worker-node1 <none> <none>
devopsadmin@kmaster-node:~/assign_examples$ kubectl apply -f service.yaml
service/tomcat-service created
devopsadmin@kmaster-node:~/assign_examples$ kubectl get service tomcat-service
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
tomcat-service NodePort 10.108.82.28 <none> 8080:30007/TCP 12s
devopsadmin@kmaster-node:~/assign_examples$ kubectl delete -f deployment.yaml service.yaml
error: when paths, URLs, or stdin is provided as input, you may not specify resource arguments as well
devopsadmin@kmaster-node:~/assign_examples$ kubectl delete -f deployment.yaml
deployment.apps "tomcat-deployment" deleted
devopsadmin@kmaster-node:~/assign_examples$ kubectl delete -f service.yaml
service "tomcat-service" deleted
devopsadmin@kmaster-node:~/assign_examples$
i-09c0eda9439eab117 (Kubernetes_master)
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3. L3 - Scale-up and Scale-Down the Pods Deployed

Ans

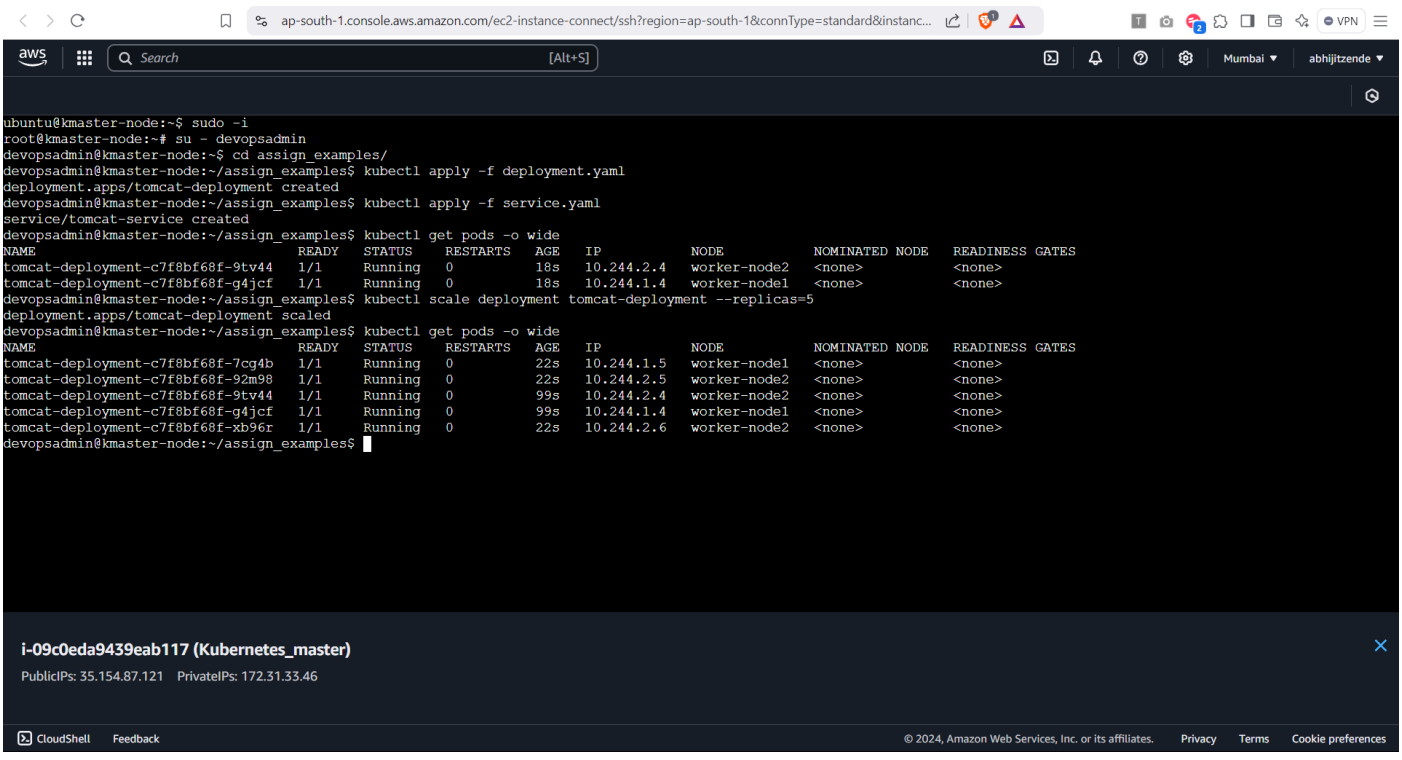
Step 1 – Initial Deployed Pods and scaling up the pods and check scaling using

```

kubectl scale deployment tomcat-deployment --replicas=5

kubectl get pods -o wide

```



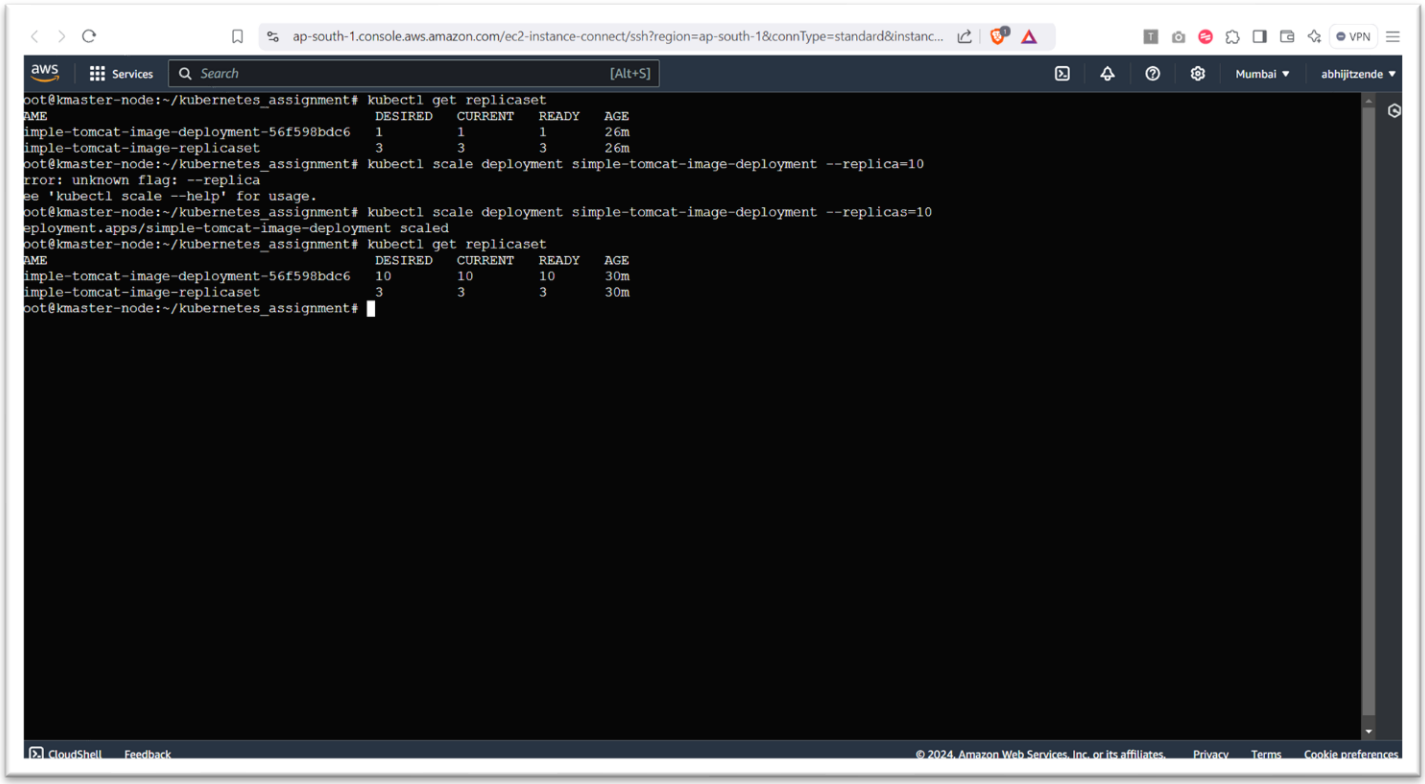
Step 2 – Scaling down the pods using command

```

kubectl scale deployment tomcat-deployment --replicas=2

kubectl get pods -o wide

```



4. L4 - Implement Rolling-Update Strategy to Upgrade the Application Image from V1.0 to V1.1

Ans

Step 1: Verify the Existing Deployment and update the deployment with new image:

```

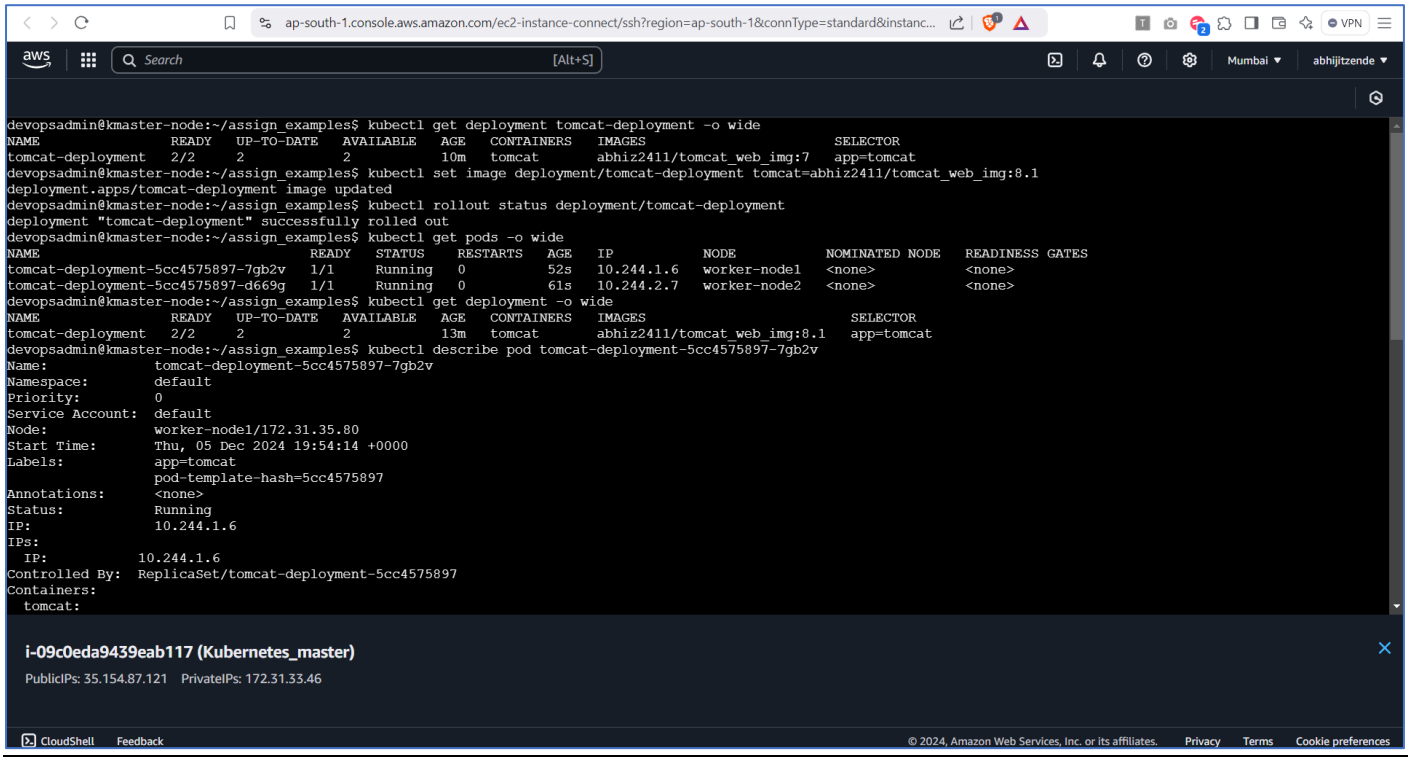
kubectl get deployment tomcat-deployment -o wide

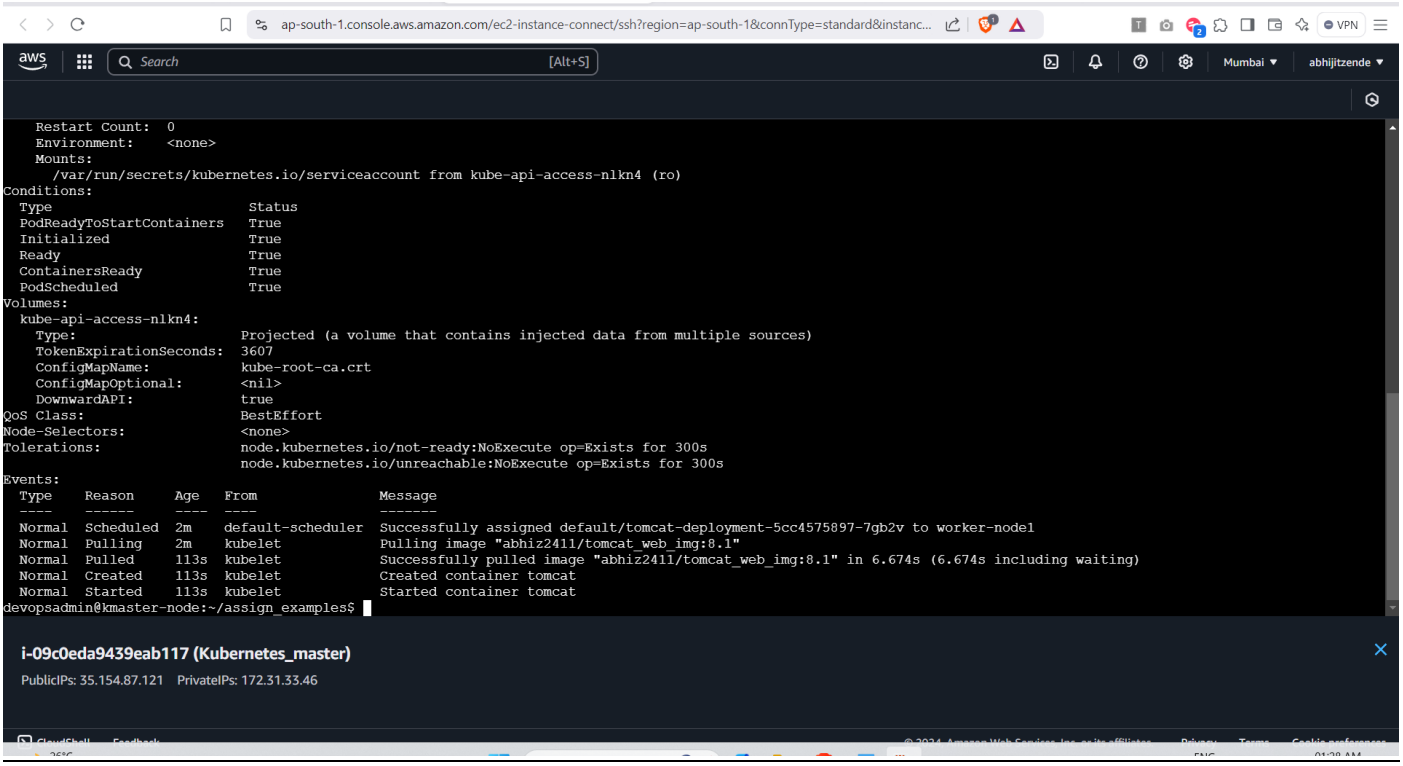
kubectl set image deployment/tomcat-deployment tomcat=abhiz2411/tomcat_web_img:8

kubectl get pods

kubectl describe pod <pod-name>

```




ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
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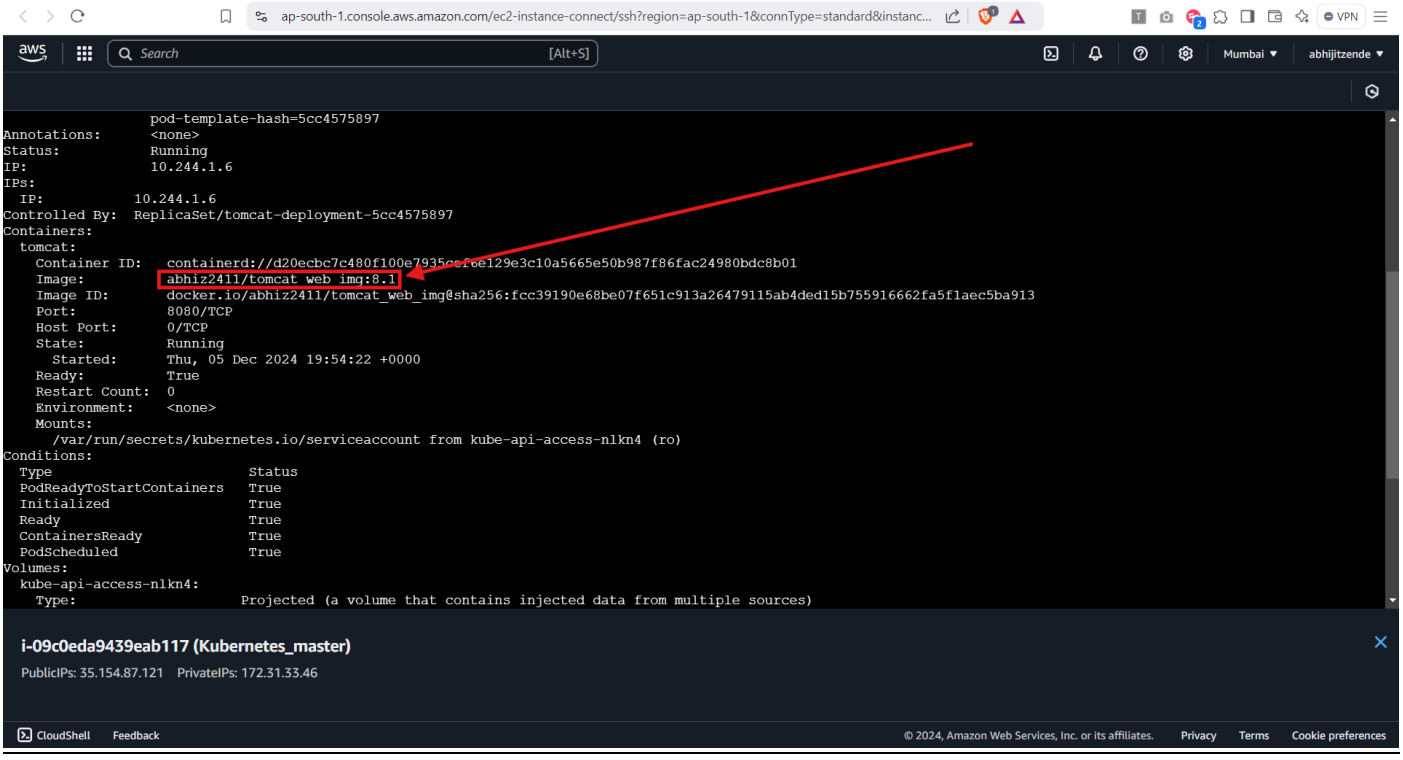
Mumbai
abhijitzende
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-nlkn4 (ro)
Conditions:
Type Status
PodReadyToStartContainers True
Initialized True
Ready True
ContainersReady True
PodScheduled True
Volumes:
kube-api-access-nlkn4:
Type: Projected (a volume that contains injected data from multiple sources)
TokenExpirationSeconds: 3607
ConfigMapName: kube-root-ca.crt
ConfigMapOptional: <nil>
DownwardAPI: true
QoS Class: BestEffort
Node-Selectors: <none>
Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
Type Reason Age From Message
Normal Scheduled 2m default-scheduler Successfully assigned default/tomcat-deployment-5cc4575897-7gb2v to worker-node1
Normal Pulling 2m kubelet Pulling image "abhiz2411/tomcat_web_img:8.1"
Normal Pulled 113s kubelet Successfully pulled image "abhiz2411/tomcat_web_img:8.1" in 6.674s (6.674s including waiting)
Normal Created 113s kubelet Created container tomcat
Normal Started 113s kubelet Started container tomcat
devopsadmin@kmaster-node:~/assign_examples$
i-09c0eda9439eab117 (Kubernetes_master)
PublicIPs: 35.154.87.121 PrivateIPs: 172.31.33.46


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanc...
aws
Search
[Alt+S]
Mumbai
abhijitzende
pod-template-hash=5cc4575897
Annotations: <none>
Status: Running
IP: 10.244.1.6
IPs:
IP: 10.244.1.6
Controlled By: ReplicaSet/tomcat-deployment-5cc4575897
Containers:
tomcat:
Container ID: containerd://d20ecbc7c480f100e7935ccf6e129e3c10a5665e50b987f86fac24980bdc8b01
Image: abhiz2411/tomcat_web_img:8.1
Image ID: docker.io/abhiz2411/tomcat_web_img@sha256:fcc39190e68be07f651c913a26479115ab4ded15b755916662fa5f1aec5ba913
Port: 8080/TCP
Host Port: 0/TCP
State: Running
Started: Thu, 05 Dec 2024 19:54:22 +0000
Ready: True
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-nlkn4 (ro)
Conditions:
Type Status
PodReadyToStartContainers True
Initialized True
Ready True
ContainersReady True
PodScheduled True
Volumes:
kube-api-access-nlkn4:
Type: Projected (a volume that contains injected data from multiple sources)
i-09c0eda9439eab117 (Kubernetes_master)
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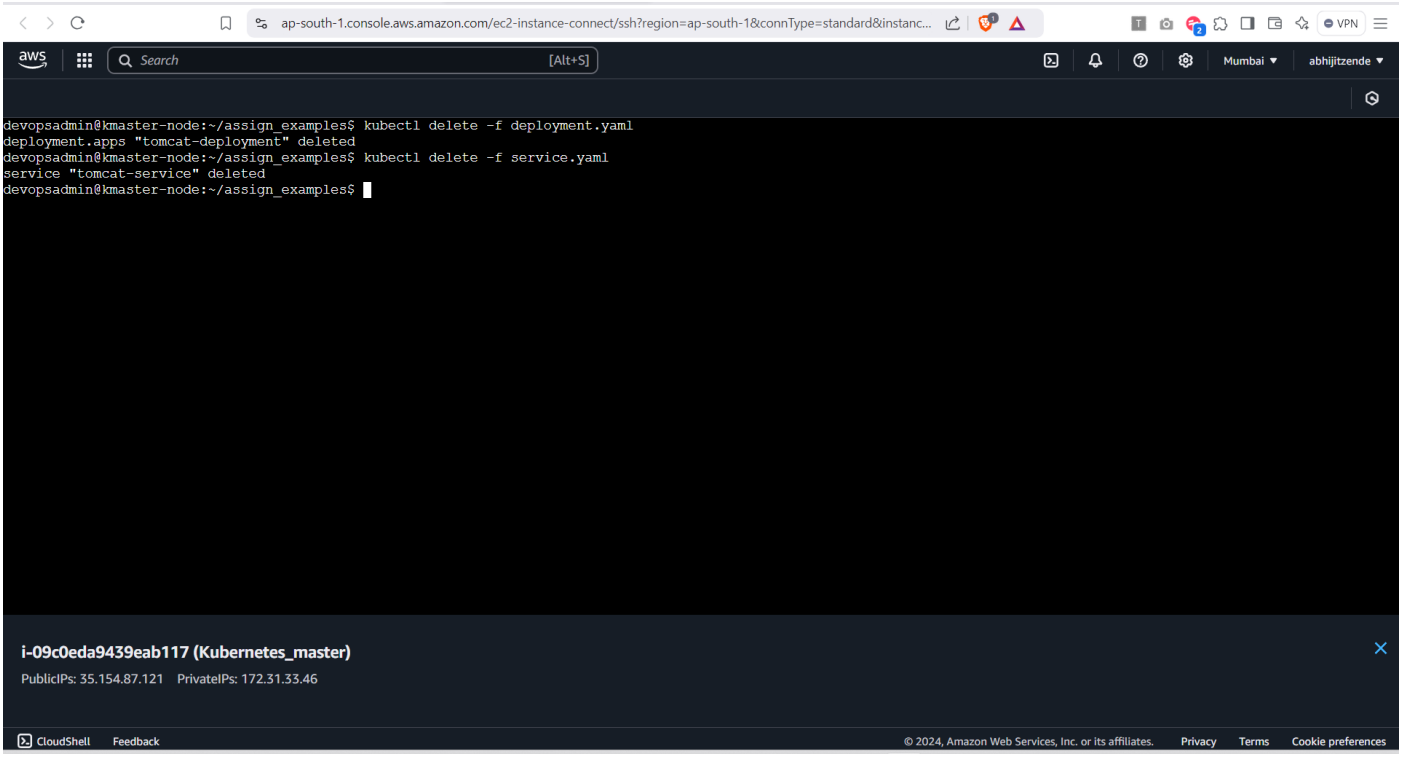

Step 2: Rollback if Necessary