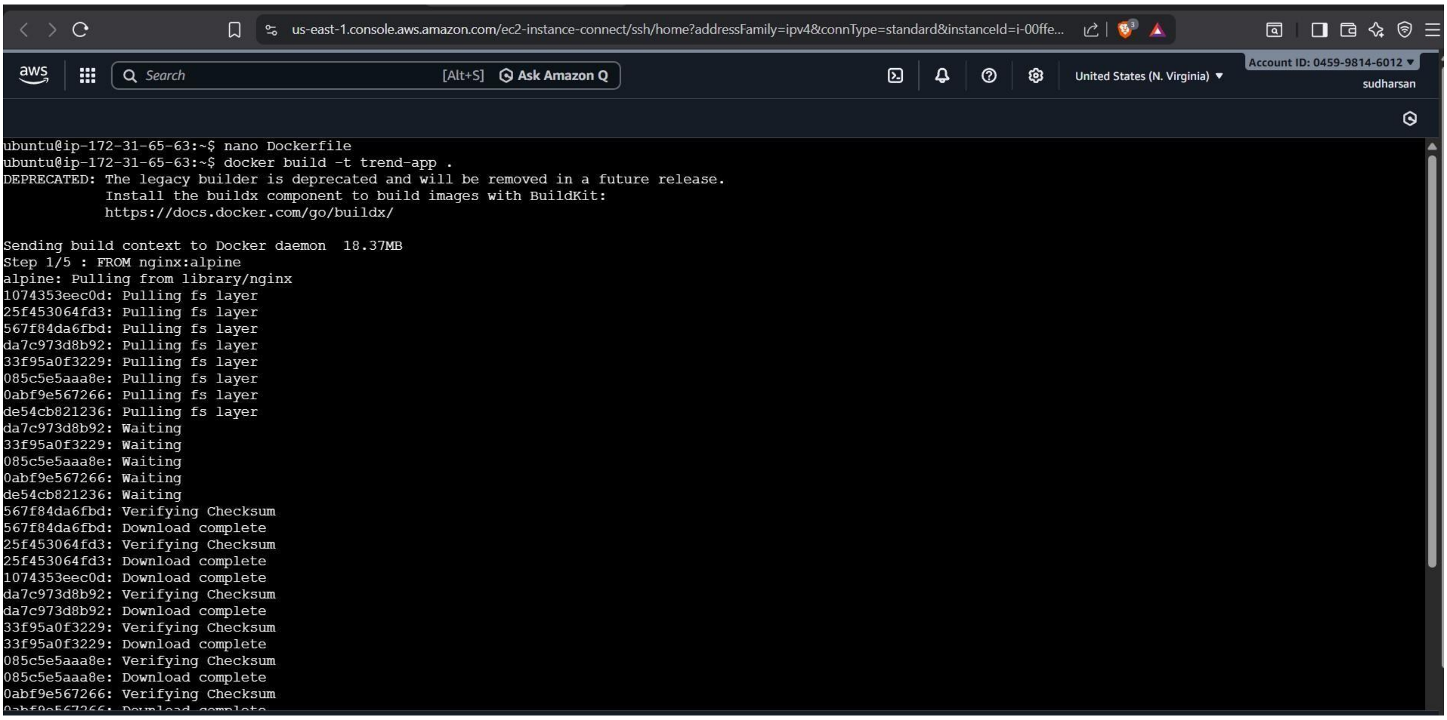
PROJECT - 2

TrendStore

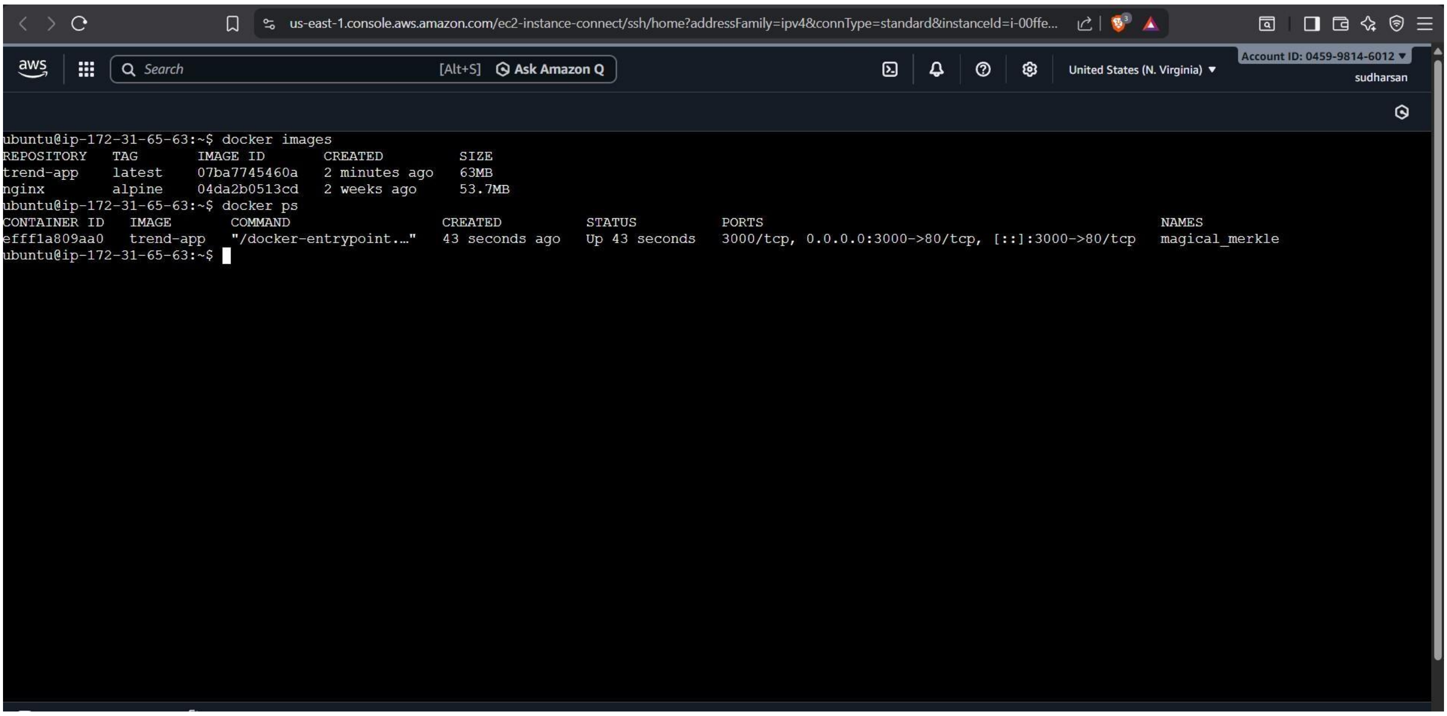
ScreenShots

1] docker build


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan

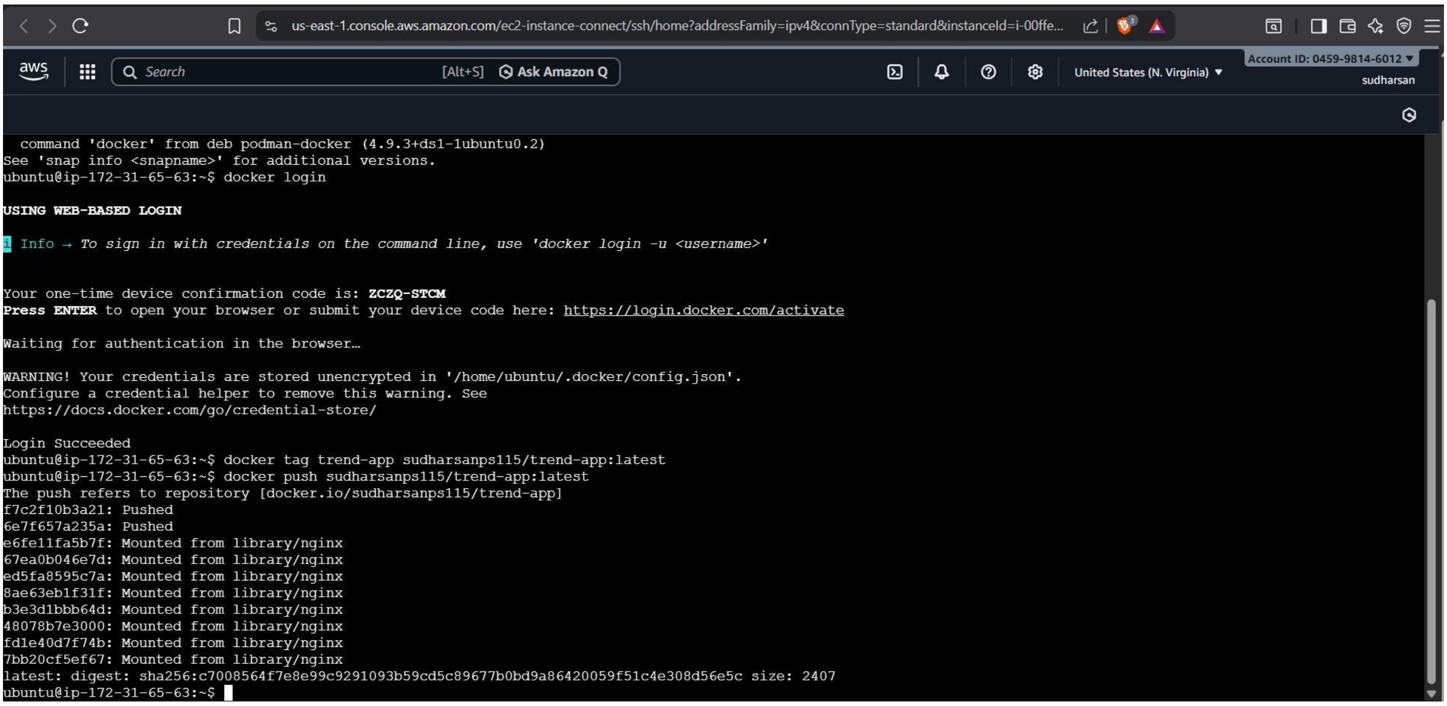
```
ubuntu@ip-172-31-65-63:~$ nano Dockerfile
ubuntu@ip-172-31-65-63:~$ docker build -t trend-app .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  18.37MB
Step 1/5 : FROM nginx:alpine
alpine: Pulling from library/nginx
1074353eec0d: Pulling fs layer
25f453064fd3: Pulling fs layer
567f84da6fbd: Pulling fs layer
da7c973d8b92: Pulling fs layer
33f95a0f3229: Pulling fs layer
085c5e5aaa8e: Pulling fs layer
0abf9e567266: Pulling fs layer
de54cb821236: Pulling fs layer
da7c973d8b92: Waiting
33f95a0f3229: Waiting
085c5e5aaa8e: Waiting
0abf9e567266: Waiting
de54cb821236: Waiting
567f84da6fbd: Verifying Checksum
567f84da6fbd: Download complete
25f453064fd3: Verifying Checksum
25f453064fd3: Download complete
1074353eec0d: Download complete
da7c973d8b92: Verifying Checksum
da7c973d8b92: Download complete
33f95a0f3229: Verifying Checksum
33f95a0f3229: Download complete
085c5e5aaa8e: Verifying Checksum
085c5e5aaa8e: Download complete
0abf9e567266: Verifying Checksum
0abf9e567266: Download complete
```

2] docker run (container)


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan

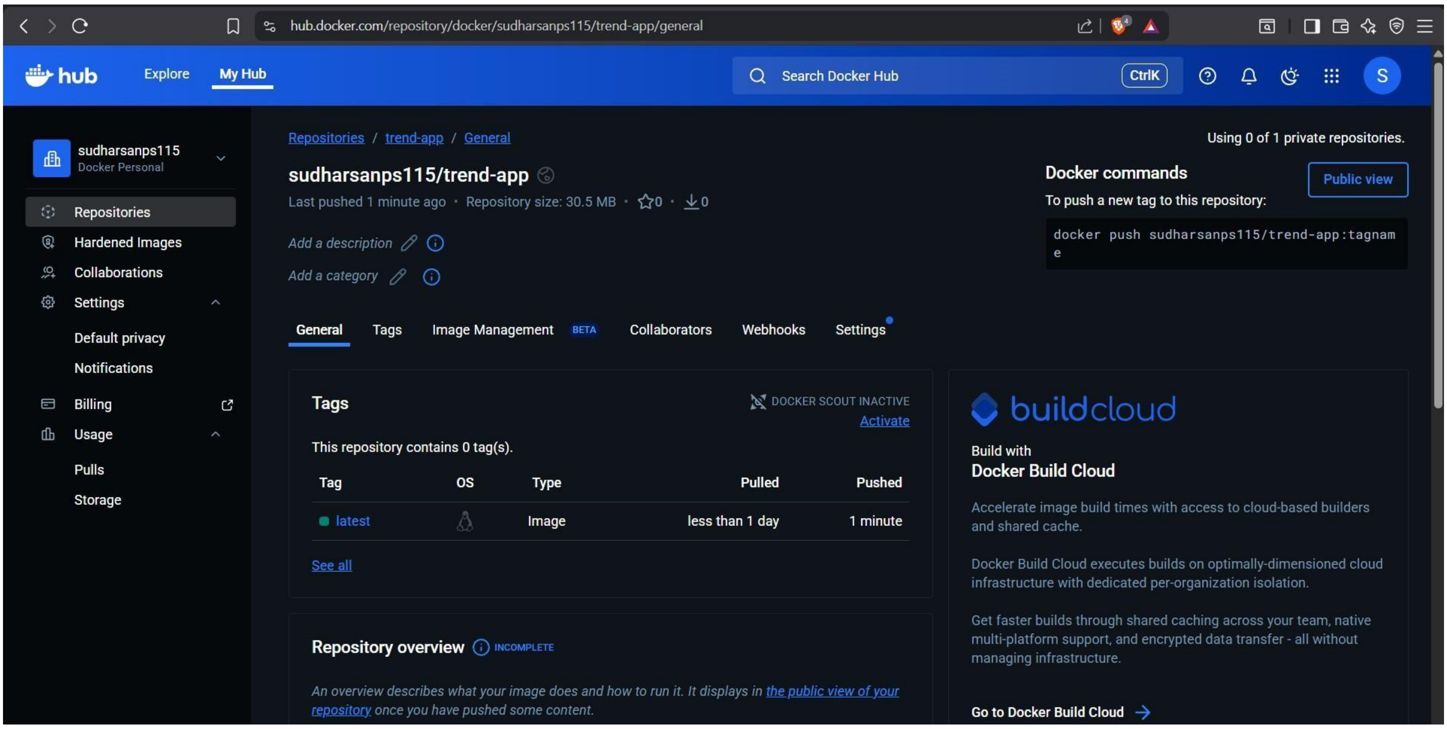
```
ubuntu@ip-172-31-65-63:~$ docker images
REPOSITORY   TAG       IMAGE ID       CREATED         SIZE
trend-app    latest    07ba7745460a   2 minutes ago   63MB
nginx        alpine    04da2b0513cd   2 weeks ago     53.7MB
ubuntu@ip-172-31-65-63:~$ docker ps
CONTAINER ID   IMAGE       COMMAND                  CREATED          STATUS          PORTS                                         NAMES
efff1a809aa0   trend-app   "/docker-entrypoint.…"   43 seconds ago   Up 43 seconds   3000/tcp, 0.0.0.0:3000->80/tcp, [::]:3000->80/tcp   magical_merkle
ubuntu@ip-172-31-65-63:~$ 
```

3] dokcer login and image push


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia) ▾
Account ID: 0459-9814-6012 ▾
sudharsan

```
  command 'docker' from deb podman-docker (4.9.3+ds1-1ubuntu0.2)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-65-63:~$ docker login

USING WEB-BASED LOGIN

i Info → To sign in with credentials on the command line, use 'docker login -u <username>'


Your one-time device confirmation code is: ZCZQ-STCM
Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate

Waiting for authentication in the browser…

WARNING! Your credentials are stored unencrypted in '/home/ubuntu/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
ubuntu@ip-172-31-65-63:~$ docker tag trend-app sudharsanps115/trend-app:latest
ubuntu@ip-172-31-65-63:~$ docker push sudharsanps115/trend-app:latest
The push refers to repository [docker.io/sudharsanps115/trend-app]
f7c2f10b3a21: Pushed
6e7f657a235a: Pushed
e6fe11fa5b7f: Mounted from library/nginx
67ea0b046e7d: Mounted from library/nginx
ed5fa8595c7a: Mounted from library/nginx
8ae63eb1f31f: Mounted from library/nginx
b3e3d1bbb64d: Mounted from library/nginx
48078b7e3000: Mounted from library/nginx
fd1e40d7f74b: Mounted from library/nginx
7bb20cf5ef67: Mounted from library/nginx
latest: digest: sha256:c7008564f7e8e99c9291093b59cd5c89677b0bd9a86420059f51c4e308d56e5c size: 2407
ubuntu@ip-172-31-65-63:~$
```

4] docker repo dash



Repositories / trend-app / General

Using 0 of 1 private repositories.

sudharsanps115/trend-app

Last pushed 1 minute ago · Repository size: 30.5 MB · ☆0 · ↓0

Add a description

Add a category

Docker commands

To push a new tag to this repository:

```
docker push sudharsanps115/trend-app:tagname
```

Tags

This repository contains 0 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	less than 1 day	1 minute

See all

Repository overview INCOMPLETE

An overview describes what your image does and how to run it. It displays in the public view of your repository once you have pushed some content.

Build with

Docker Build Cloud

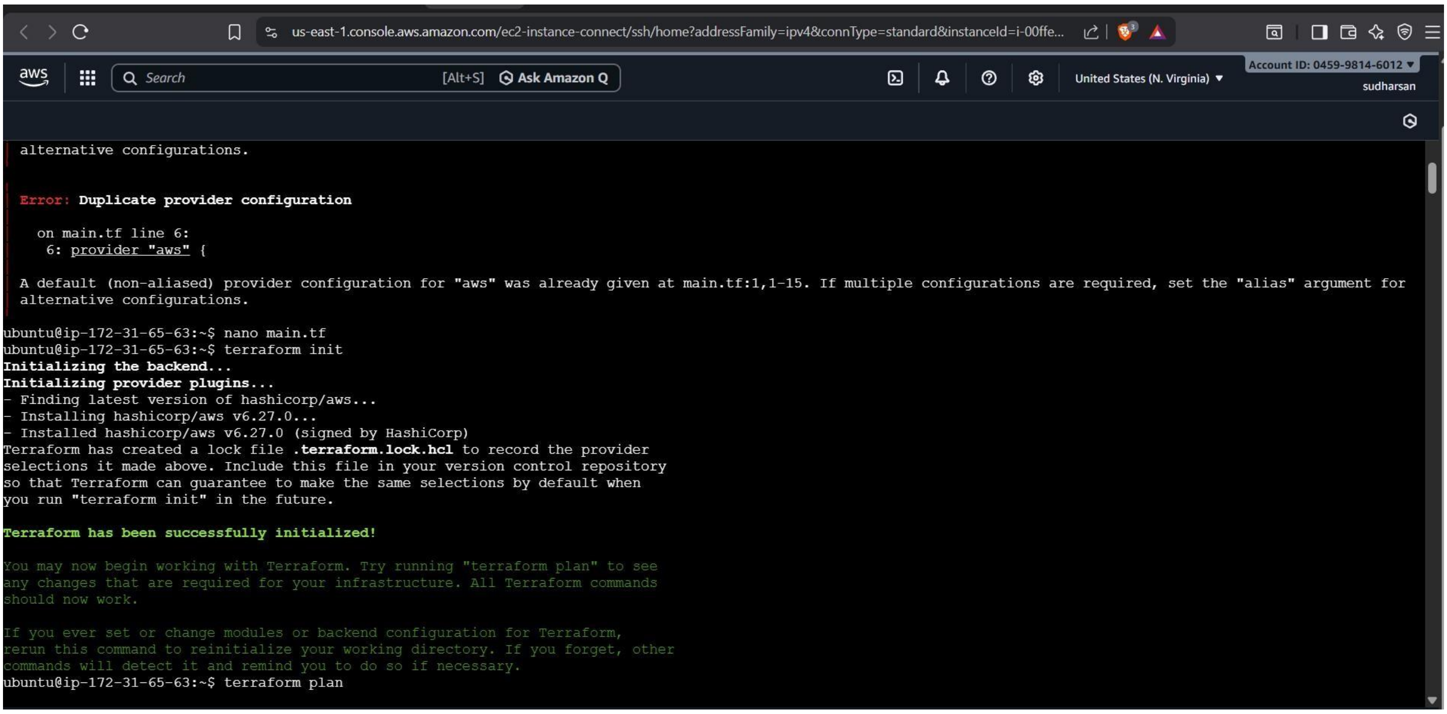
Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.

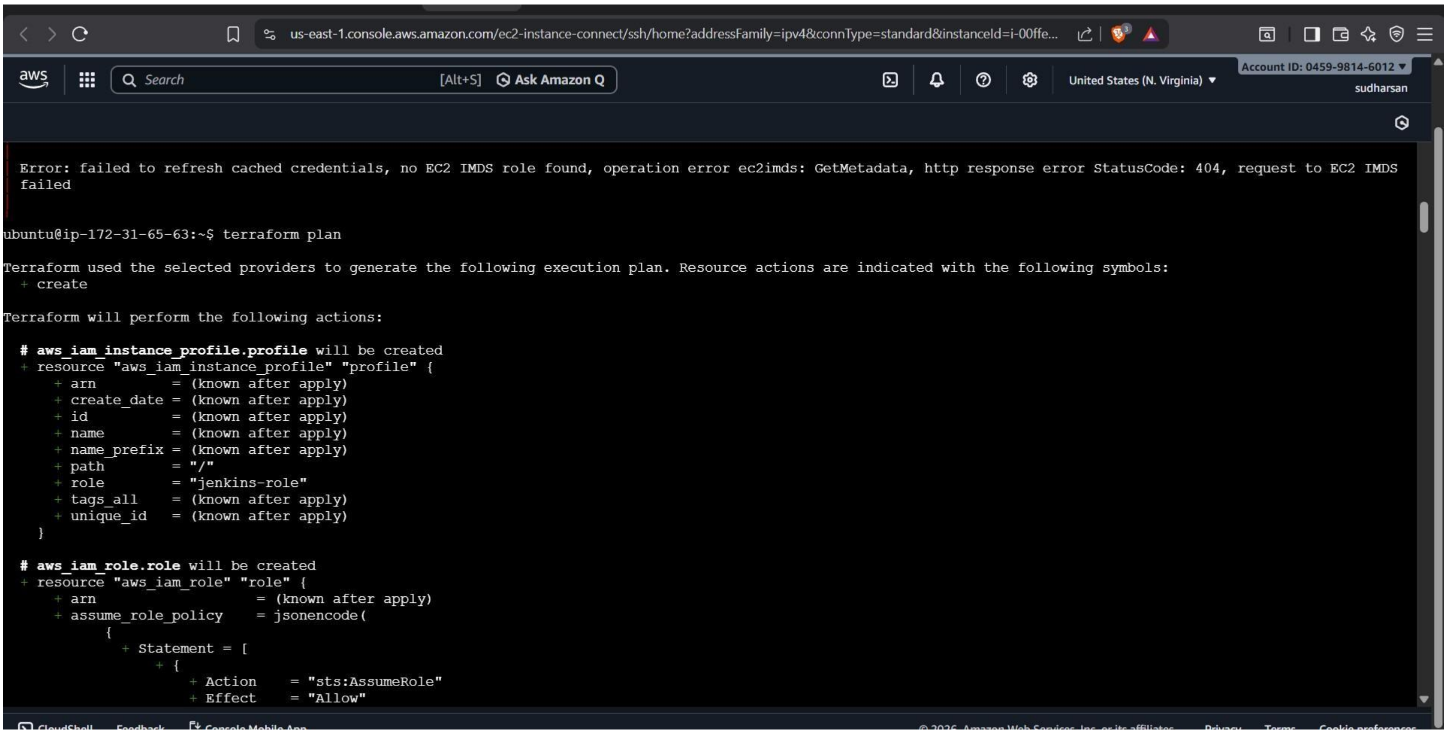
Go to Docker Build Cloud →

5] terraform initialization


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan

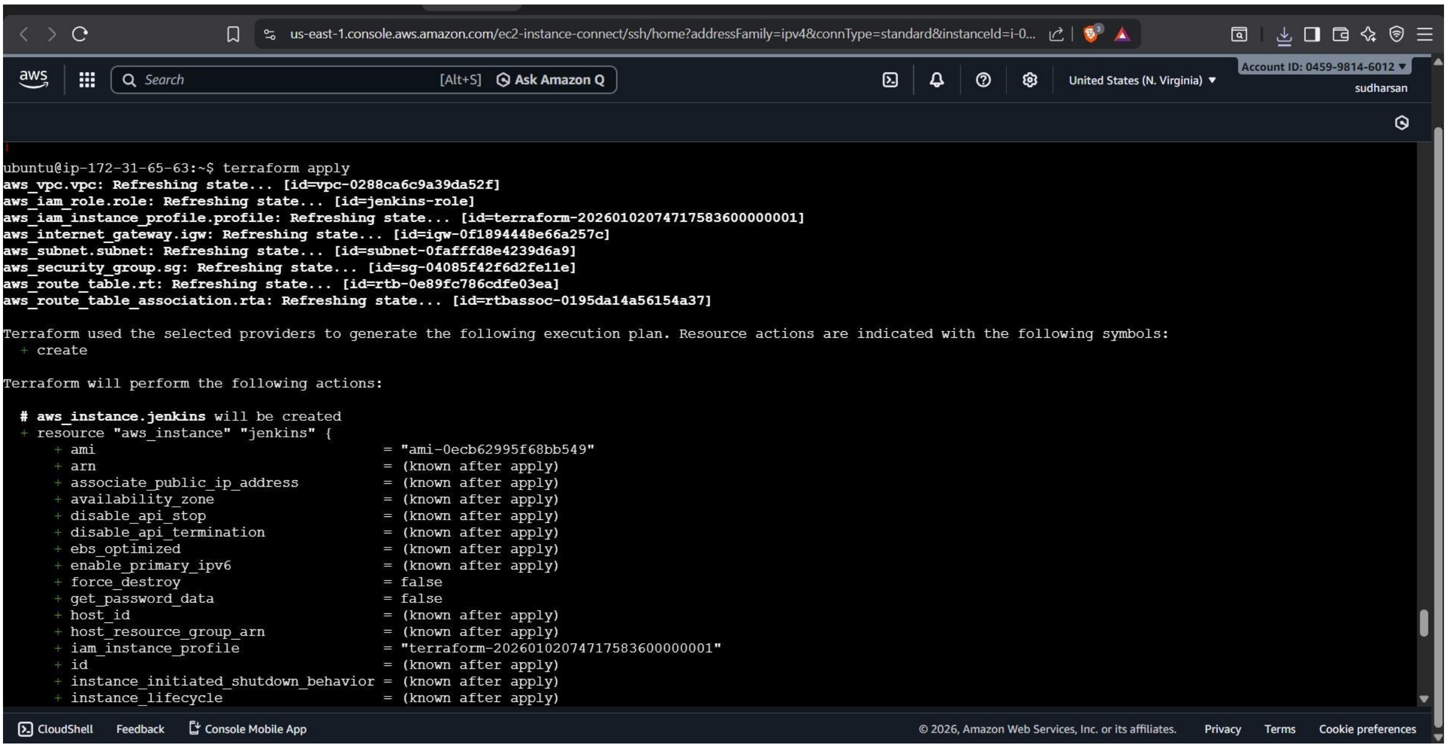
```
 alternative configurations.


 Error: Duplicate provider configuration

   on main.tf line 6:
    6: provider "aws" {

 A default (non-aliased) provider configuration for "aws" was already given at main.tf:1,1-15. If multiple configurations are required, set the "alias" argument for
 alternative configurations.

ubuntu@ip-172-31-65-63:~$ nano main.tf
ubuntu@ip-172-31-65-63:~$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v6.27.0...
- Installed hashicorp/aws v6.27.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
ubuntu@ip-172-31-65-63:~$ terraform plan
```

6] terraform plan


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan

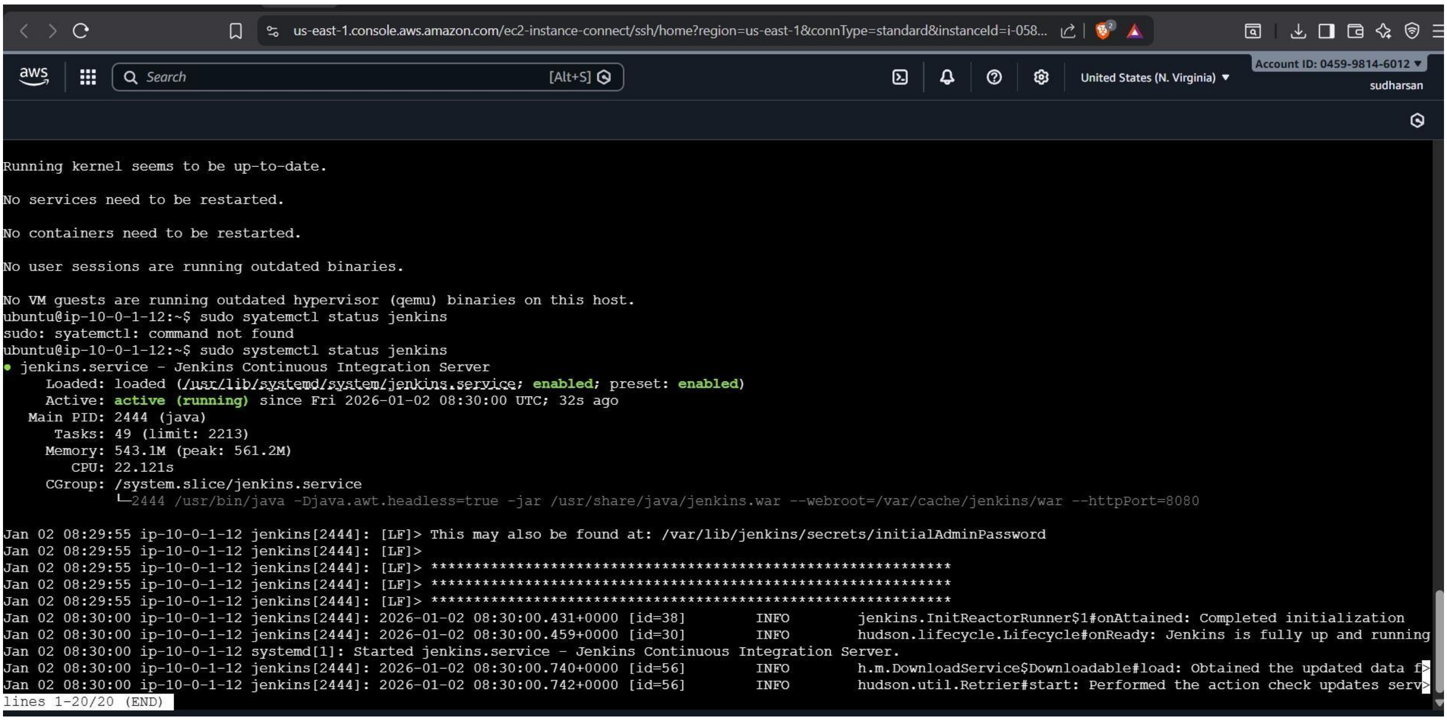
```
 Error: failed to refresh cached credentials, no EC2 IMDS role found, operation error ec2imds: GetMetadata, http response error StatusCode: 404, request to EC2 IMDS
 failed


ubuntu@ip-172-31-65-63:~$ terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_iam_instance_profile.profile will be created
  + resource "aws_iam_instance_profile" "profile" {
      + arn         = (known after apply)
      + create_date = (known after apply)
      + id          = (known after apply)
      + name        = (known after apply)
      + name_prefix = (known after apply)
      + path        = "/"
      + role        = "jenkins-role"
      + tags_all    = (known after apply)
      + unique_id   = (known after apply)
    }

  # aws_iam_role.role will be created
  + resource "aws_iam_role" "role" {
      + arn                   = (known after apply)
      + assume_role_policy    = jsonencode(
            {
              + Statement = [
                  + {
                      + Action    = "sts:AssumeRole"
                      + Effect    = "Allow"
```

7] terraform apply


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0...
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan
CloudShell
Feedback
Console Mobile App
© 2026, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

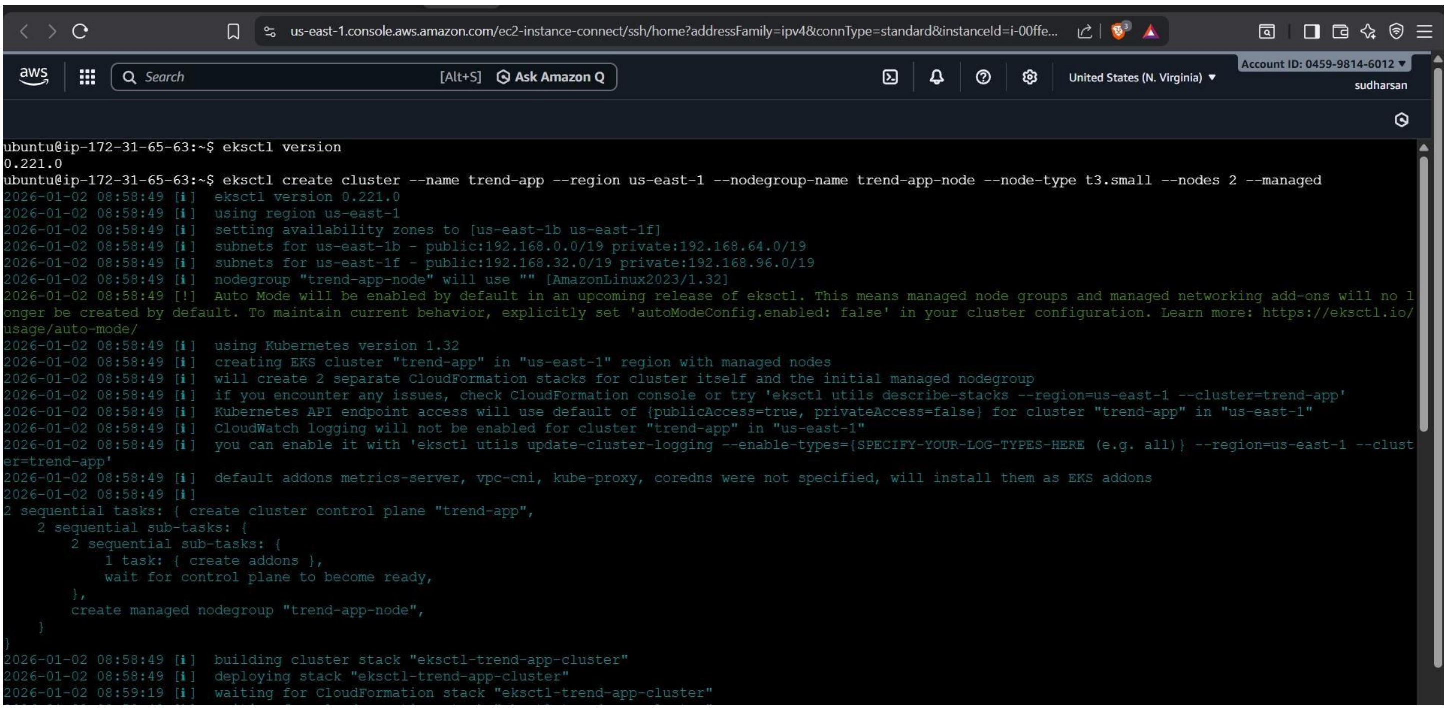
```
ubuntu@ip-172-31-65-63:~$ terraform apply
aws_vpc.vpc: Refreshing state... [id=vpc-0288ca6c9a39da52f]
aws_iam_role.role: Refreshing state... [id=jenkins-role]
aws_iam_instance_profile.profile: Refreshing state... [id=terraform-20260102074717583600000001]
aws_internet_gateway.igw: Refreshing state... [id=igw-0f1894448e66a257c]
aws_subnet.subnet: Refreshing state... [id=subnet-0afffd8e4239d6a9]
aws_security_group.sg: Refreshing state... [id=sg-04085f42f6d2fe11e]
aws_route_table.rt: Refreshing state... [id=rtb-0e89fc786cdfe03ea]
aws_route_table_association.rta: Refreshing state... [id=rtbassoc-0195da14a56154a37]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.jenkins will be created
  + resource "aws_instance" "jenkins" {
      + ami                                  = "ami-0ecb62995f68bb549"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + enable_primary_ipv6                  = (known after apply)
      + force_destroy                        = false
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = "terraform-20260102074717583600000001"
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
```

8] jenkins setup


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-1&connType=standard&instanceId=i-058...
Search
[Alt+S]
United States (N. Virginia)
Account ID: 0459-9814-6012
sudharsan

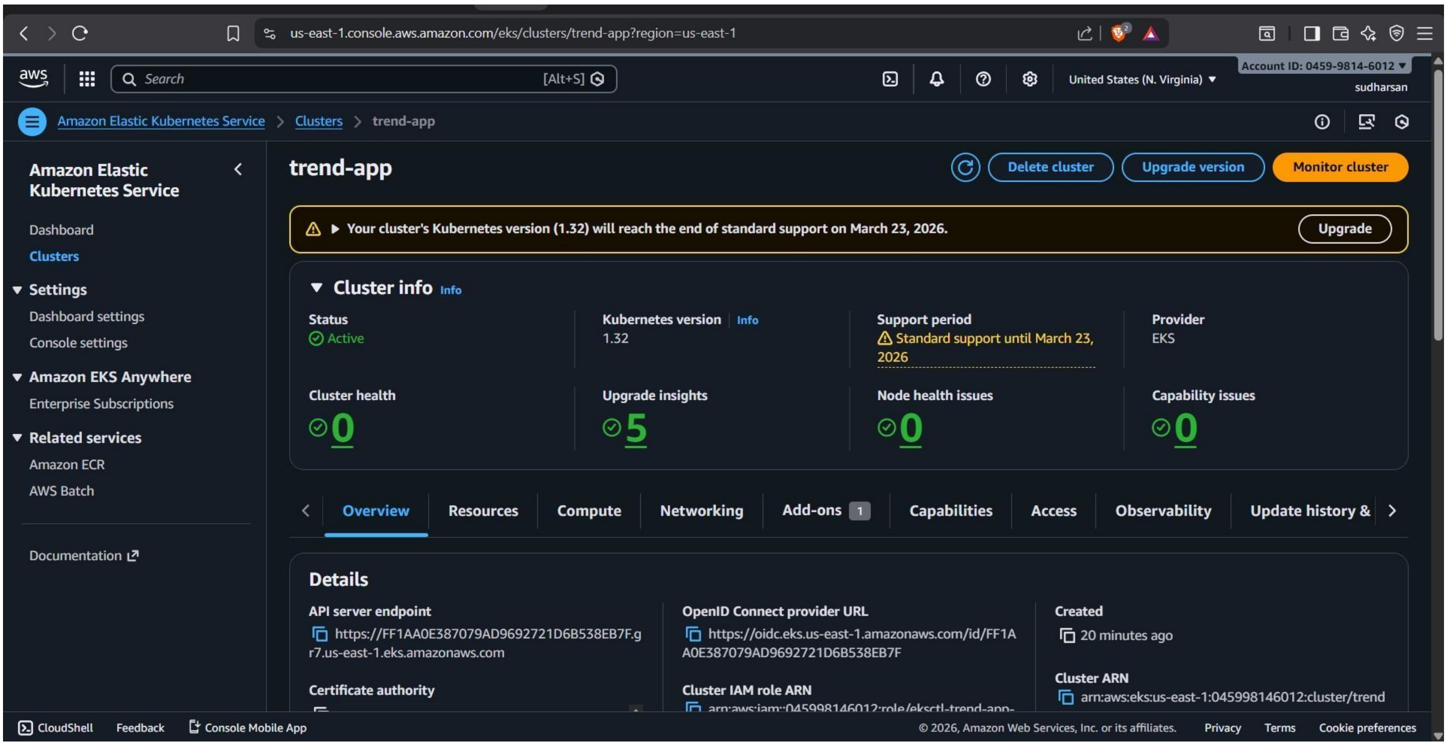
```
Running kernel seems to be up-to-date.

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.
ubuntu@ip-10-0-1-12:~$ sudo syatemctl status jenkins
sudo: syatemctl: command not found
ubuntu@ip-10-0-1-12:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
     Active: active (running) since Fri 2026-01-02 08:30:00 UTC; 32s ago
   Main PID: 2444 (java)
      Tasks: 49 (limit: 2213)
     Memory: 543.1M (peak: 561.2M)
        CPU: 22.121s
     CGroup: /system.slice/jenkins.service
             └─2444 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Jan 02 08:29:55 ip-10-0-1-12 jenkins[2444]: [LF]> This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Jan 02 08:29:55 ip-10-0-1-12 jenkins[2444]: [LF]>
Jan 02 08:29:55 ip-10-0-1-12 jenkins[2444]: [LF]> *************************************************************
Jan 02 08:29:55 ip-10-0-1-12 jenkins[2444]: [LF]> *************************************************************
Jan 02 08:29:55 ip-10-0-1-12 jenkins[2444]: [LF]> *************************************************************
Jan 02 08:30:00 ip-10-0-1-12 jenkins[2444]: 2026-01-02 08:30:00.431+0000 [id=38]        INFO        jenkins.InitReactorRunner$1#onAttained: Completed initialization
Jan 02 08:30:00 ip-10-0-1-12 jenkins[2444]: 2026-01-02 08:30:00.459+0000 [id=30]        INFO        hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
Jan 02 08:30:00 ip-10-0-1-12 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Jan 02 08:30:00 ip-10-0-1-12 jenkins[2444]: 2026-01-02 08:30:00.740+0000 [id=56]        INFO        h.m.DownloadService$Downloadable#load: Obtained the updated data f>
Jan 02 08:30:00 ip-10-0-1-12 jenkins[2444]: 2026-01-02 08:30:00.742+0000 [id=56]        INFO        hudson.util.Retrier#start: Performed the action check updates serv>
lines 1-20/20 (END)
```

9] eks cluster creation with 2 replica


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia) ▼
Account ID: 0459-9814-6012 ▼
sudharsan

```
ubuntu@ip-172-31-65-63:~$ eksctl version
0.221.0
ubuntu@ip-172-31-65-63:~$ eksctl create cluster --name trend-app --region us-east-1 --nodegroup-name trend-app-node --node-type t3.small --nodes 2 --managed
2026-01-02 08:58:49 [ℹ]  eksctl version 0.221.0
2026-01-02 08:58:49 [ℹ]  using region us-east-1
2026-01-02 08:58:49 [ℹ]  setting availability zones to [us-east-1b us-east-1f]
2026-01-02 08:58:49 [ℹ]  subnets for us-east-1b - public:192.168.0.0/19 private:192.168.64.0/19
2026-01-02 08:58:49 [ℹ]  subnets for us-east-1f - public:192.168.32.0/19 private:192.168.96.0/19
2026-01-02 08:58:49 [ℹ]  nodegroup "trend-app-node" will use "" [AmazonLinux2023/1.32]
2026-01-02 08:58:49 [!]  Auto Mode will be enabled by default in an upcoming release of eksctl. This means managed node groups and managed networking add-ons will no l
onger be created by default. To maintain current behavior, explicitly set 'autoModeConfig.enabled: false' in your cluster configuration. Learn more: https://eksctl.io/
usage/auto-mode/
2026-01-02 08:58:49 [ℹ]  using Kubernetes version 1.32
2026-01-02 08:58:49 [ℹ]  creating EKS cluster "trend-app" in "us-east-1" region with managed nodes
2026-01-02 08:58:49 [ℹ]  will create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup
2026-01-02 08:58:49 [ℹ]  if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-east-1 --cluster=trend-app'
2026-01-02 08:58:49 [ℹ]  Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "trend-app" in "us-east-1"
2026-01-02 08:58:49 [ℹ]  CloudWatch logging will not be enabled for cluster "trend-app" in "us-east-1"
2026-01-02 08:58:49 [ℹ]  you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=us-east-1 --clust
er=trend-app'
2026-01-02 08:58:49 [ℹ]  default addons metrics-server, vpc-cni, kube-proxy, coredns were not specified, will install them as EKS addons
2026-01-02 08:58:49 [ℹ]
2 sequential tasks: { create cluster control plane "trend-app",
    2 sequential sub-tasks: {
        2 sequential sub-tasks: {
            1 task: { create addons },
            wait for control plane to become ready,
        },
        create managed nodegroup "trend-app-node",
    }
}
2026-01-02 08:58:49 [ℹ]  building cluster stack "eksctl-trend-app-cluster"
2026-01-02 08:58:49 [ℹ]  deploying stack "eksctl-trend-app-cluster"
2026-01-02 08:59:19 [ℹ]  waiting for CloudFormation stack "eksctl-trend-app-cluster"
```

10] eks dashboard



trend-app

⚠ ▶ Your cluster's Kubernetes version (1.32) will reach the end of standard support on March 23, 2026.

Cluster info Info

Status: Active

Kubernetes version Info: 1.32

Support period: ⚠ Standard support until March 23, 2026

Provider: EKS

Cluster health: 0

Upgrade insights: 5

Node health issues: 0

Capability issues: 0

Details

API server endpoint: https://FF1AA0E387079AD9692721D6B538EB7F.gr7.us-east-1.eks.amazonaws.com

OpenID Connect provider URL: https://oidc.eks.us-east-1.amazonaws.com/id/FF1AA0E387079AD9692721D6B538EB7F

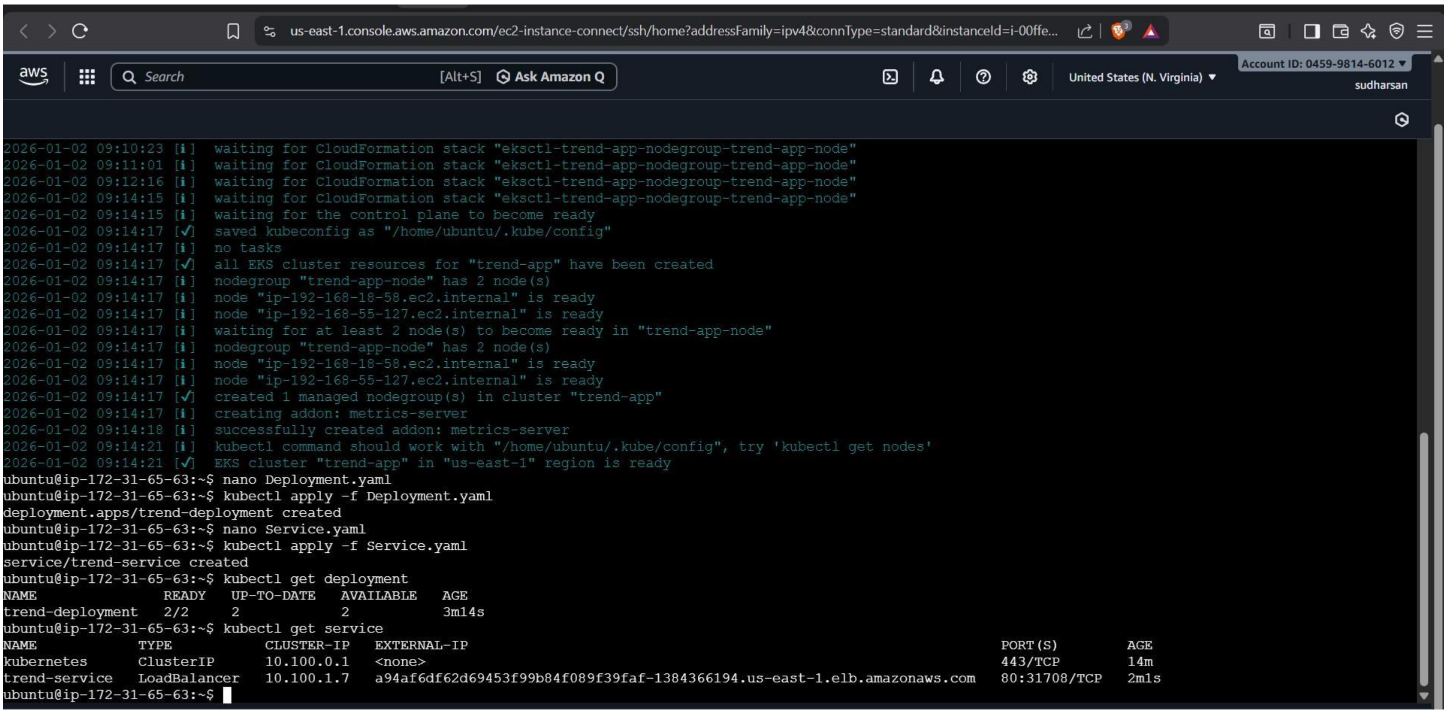
Created: 20 minutes ago

Certificate authority

Cluster IAM role ARN: arn:aws:iam::045998146012:role/eksctl-trend-app-

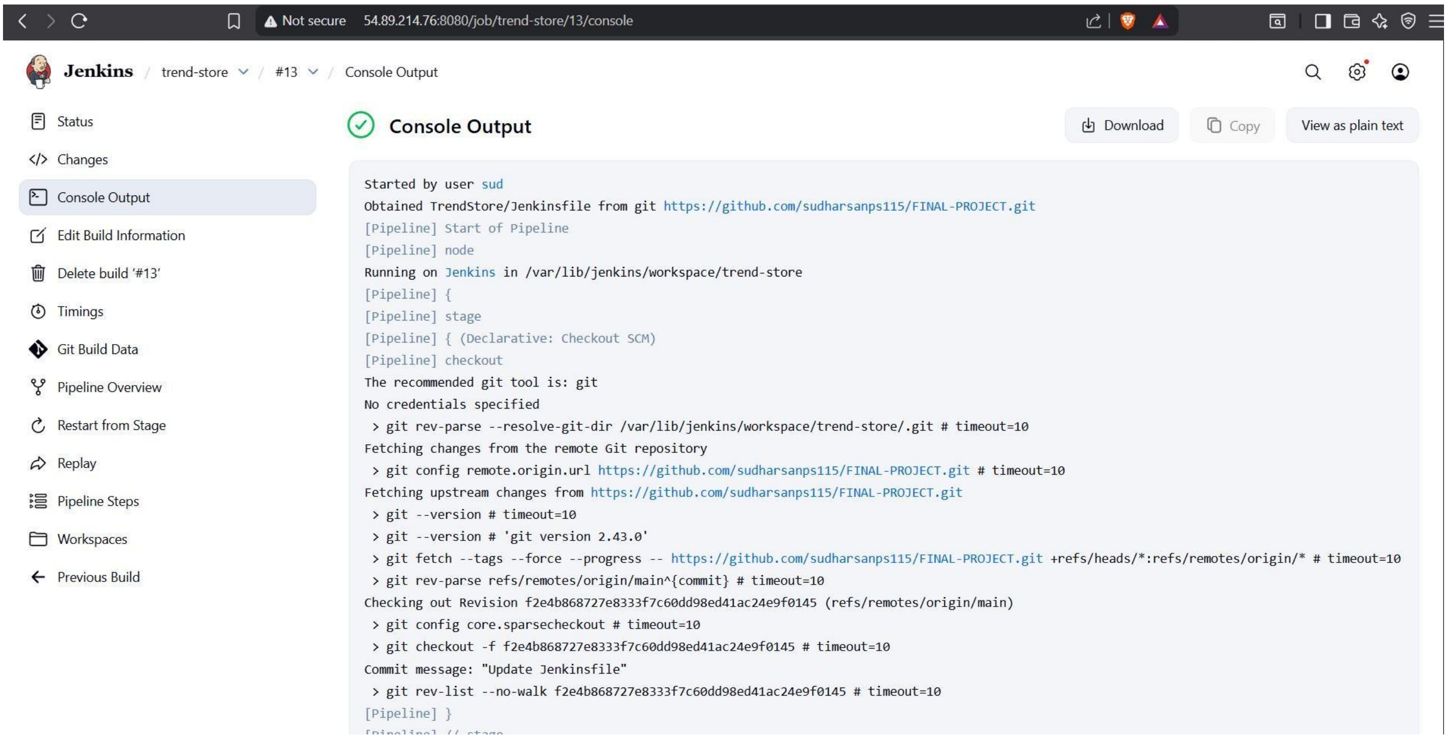
Cluster ARN: arn:aws:eks:us-east-1:045998146012:cluster/trend

11] eks deployment and servoice(LB)


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia) ▾
Account ID: 0459-9814-6012 ▾
sudharsan

```
2026-01-02 09:10:23 [ℹ]  waiting for CloudFormation stack "eksctl-trend-app-nodegroup-trend-app-node"
2026-01-02 09:11:01 [ℹ]  waiting for CloudFormation stack "eksctl-trend-app-nodegroup-trend-app-node"
2026-01-02 09:12:16 [ℹ]  waiting for CloudFormation stack "eksctl-trend-app-nodegroup-trend-app-node"
2026-01-02 09:14:15 [ℹ]  waiting for CloudFormation stack "eksctl-trend-app-nodegroup-trend-app-node"
2026-01-02 09:14:15 [ℹ]  waiting for the control plane to become ready
2026-01-02 09:14:17 [✓]  saved kubeconfig as "/home/ubuntu/.kube/config"
2026-01-02 09:14:17 [ℹ]  no tasks
2026-01-02 09:14:17 [✓]  all EKS cluster resources for "trend-app" have been created
2026-01-02 09:14:17 [ℹ]  nodegroup "trend-app-node" has 2 node(s)
2026-01-02 09:14:17 [ℹ]  node "ip-192-168-18-58.ec2.internal" is ready
2026-01-02 09:14:17 [ℹ]  node "ip-192-168-55-127.ec2.internal" is ready
2026-01-02 09:14:17 [ℹ]  waiting for at least 2 node(s) to become ready in "trend-app-node"
2026-01-02 09:14:17 [ℹ]  nodegroup "trend-app-node" has 2 node(s)
2026-01-02 09:14:17 [ℹ]  node "ip-192-168-18-58.ec2.internal" is ready
2026-01-02 09:14:17 [ℹ]  node "ip-192-168-55-127.ec2.internal" is ready
2026-01-02 09:14:17 [✓]  created 1 managed nodegroup(s) in cluster "trend-app"
2026-01-02 09:14:17 [ℹ]  creating addon: metrics-server
2026-01-02 09:14:18 [ℹ]  successfully created addon: metrics-server
2026-01-02 09:14:21 [ℹ]  kubectl command should work with "/home/ubuntu/.kube/config", try 'kubectl get nodes'
2026-01-02 09:14:21 [✓]  EKS cluster "trend-app" in "us-east-1" region is ready
ubuntu@ip-172-31-65-63:~$ nano Deployment.yaml
ubuntu@ip-172-31-65-63:~$ kubectl apply -f Deployment.yaml
deployment.apps/trend-deployment created
ubuntu@ip-172-31-65-63:~$ nano Service.yaml
ubuntu@ip-172-31-65-63:~$ kubectl apply -f Service.yaml
service/trend-service created
ubuntu@ip-172-31-65-63:~$ kubectl get deployment
NAME               READY   UP-TO-DATE   AVAILABLE   AGE
trend-deployment   2/2     2            2           3m14s
ubuntu@ip-172-31-65-63:~$ kubectl get service
NAME            TYPE           CLUSTER-IP    EXTERNAL-IP                                                               PORT(S)        AGE
kubernetes      ClusterIP      10.100.0.1    <none>                                                                    443/TCP        14m
trend-service   LoadBalancer   10.100.1.7    a94af6df62d69453f99b84f089f39faf-1384366194.us-east-1.elb.amazonaws.com   80:31708/TCP   2m1s
ubuntu@ip-172-31-65-63:~$
```

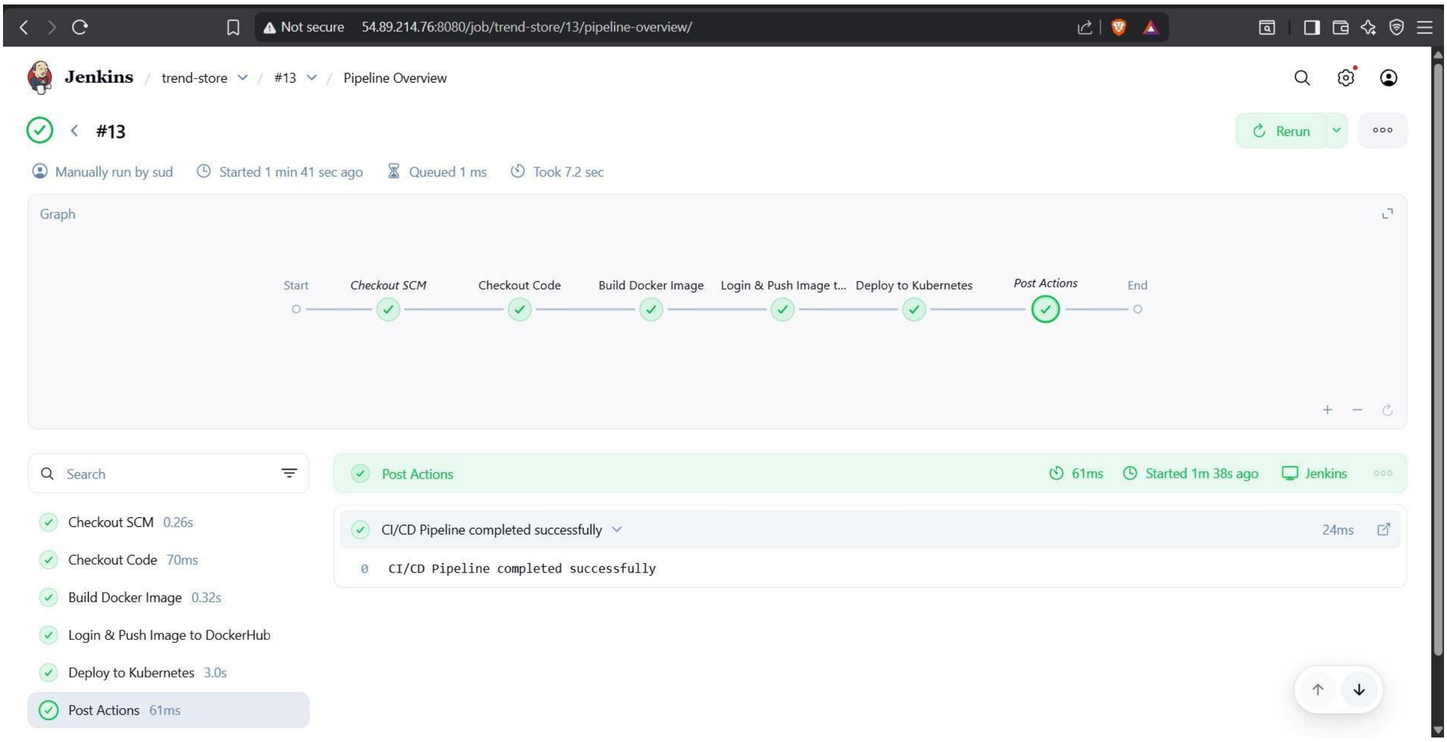
12] jenkins console output



Console Output

```
Started by user sud
Obtained TrendStore/Jenkinsfile from git https://github.com/sudharsanps115/FINAL-PROJECT.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/trend-store
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: git
No credentials specified
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/trend-store/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/sudharsanps115/FINAL-PROJECT.git # timeout=10
Fetching upstream changes from https://github.com/sudharsanps115/FINAL-PROJECT.git
 > git --version # timeout=10
 > git --version # 'git version 2.43.0'
 > git fetch --tags --force --progress -- https://github.com/sudharsanps115/FINAL-PROJECT.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision f2e4b868727e8333f7c60dd98ed41ac24e9f0145 (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f f2e4b868727e8333f7c60dd98ed41ac24e9f0145 # timeout=10
Commit message: "Update Jenkinsfile"
 > git rev-list --no-walk f2e4b868727e8333f7c60dd98ed41ac24e9f0145 # timeout=10
[Pipeline] }
[Pipeline] // stage
```

13] jenkins pipeline overview



Manually run by sud · Started 1 min 41 sec ago · Queued 1 ms · Took 7.2 sec

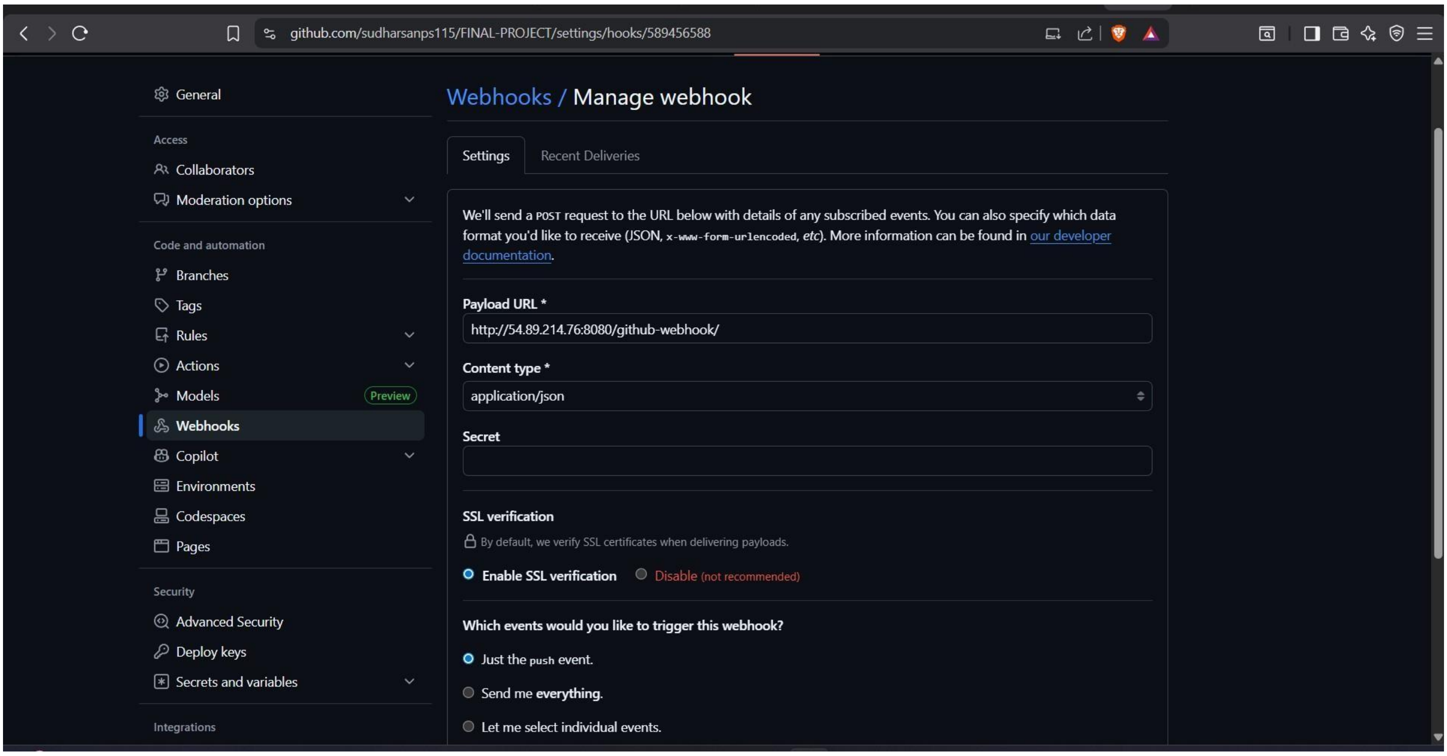
- ✓ Checkout SCM 0.26s
- ✓ Checkout Code 70ms
- ✓ Build Docker Image 0.32s
- ✓ Login & Push Image to DockerHub
- ✓ Deploy to Kubernetes 3.0s
- ✓ Post Actions 61ms

✓ Post Actions · 61ms · Started 1m 38s ago · Jenkins

✓ CI/CD Pipeline completed successfully · 24ms

```
0  CI/CD Pipeline completed successfully
```

14] webhook setup



Webhooks / Manage webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, *etc*). More information can be found in our developer documentation.

Payload URL *
http://54.89.214.76:8080/github-webhook/

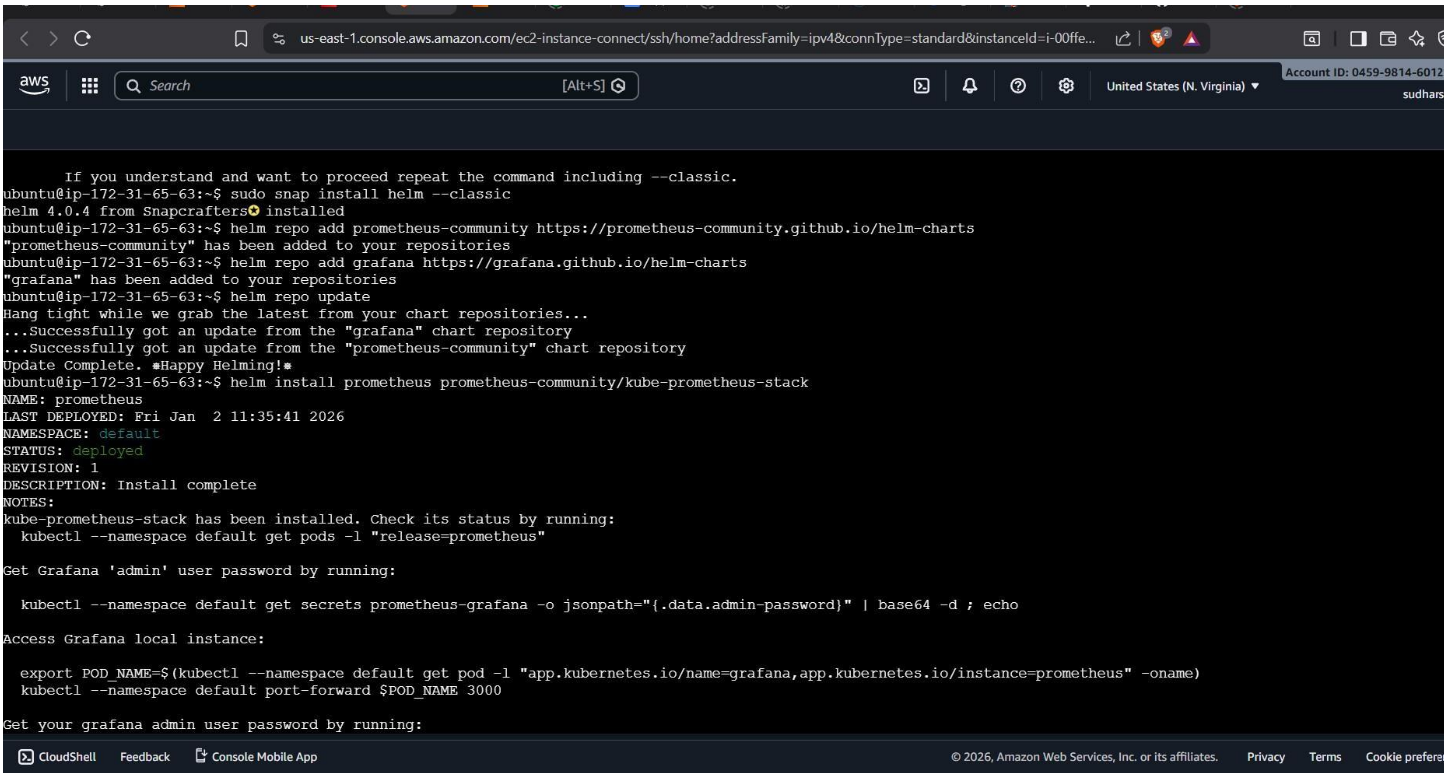
Content type *
application/json

Secret

SSL verification
By default, we verify SSL certificates when delivering payloads.
● Enable SSL verification ○ Disable (not recommended)

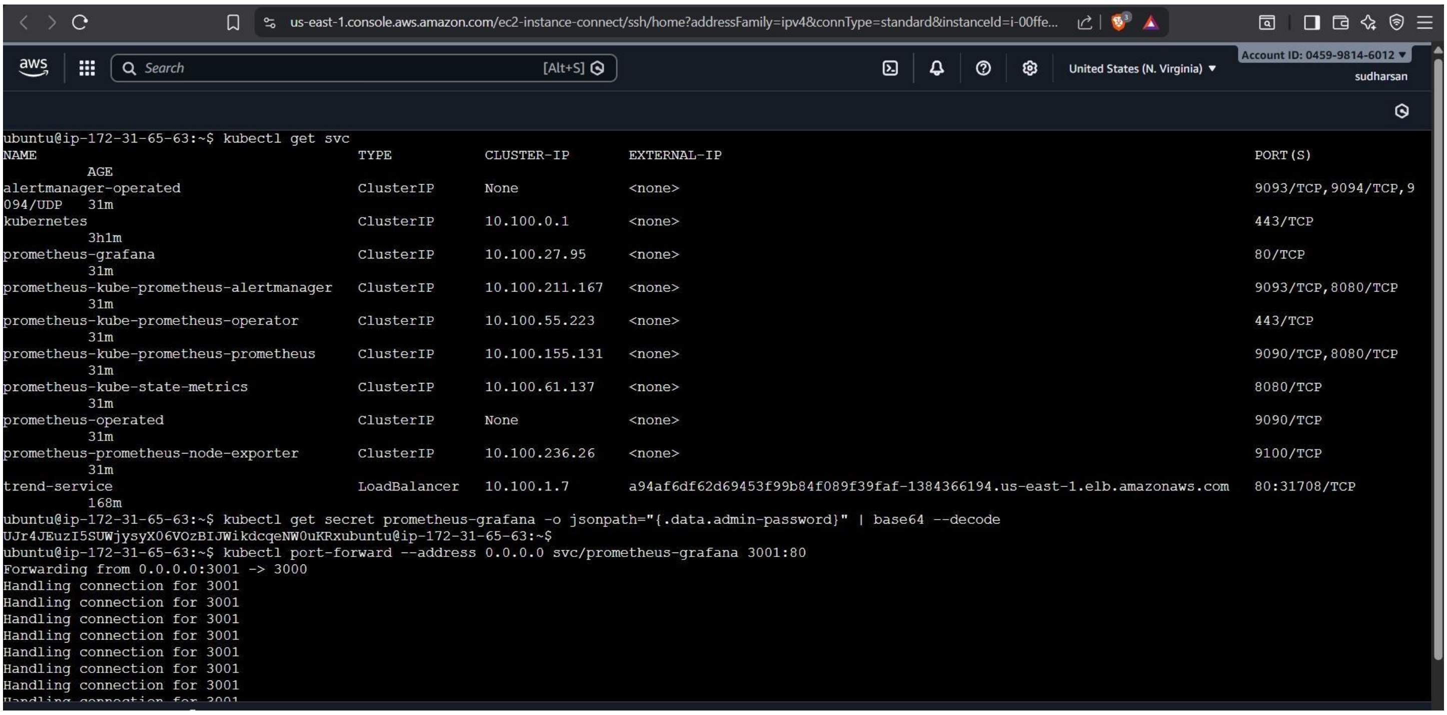
Which events would you like to trigger this webhook?
● Just the push event.
○ Send me **everything**.
○ Let me select individual events.

15] prometheus setup


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
Search
[Alt+S]
United States (N. Virginia) ▼
Account ID: 0459-9814-6012
sudhars
CloudShell
Feedback
Console Mobile App
© 2026, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie prefere

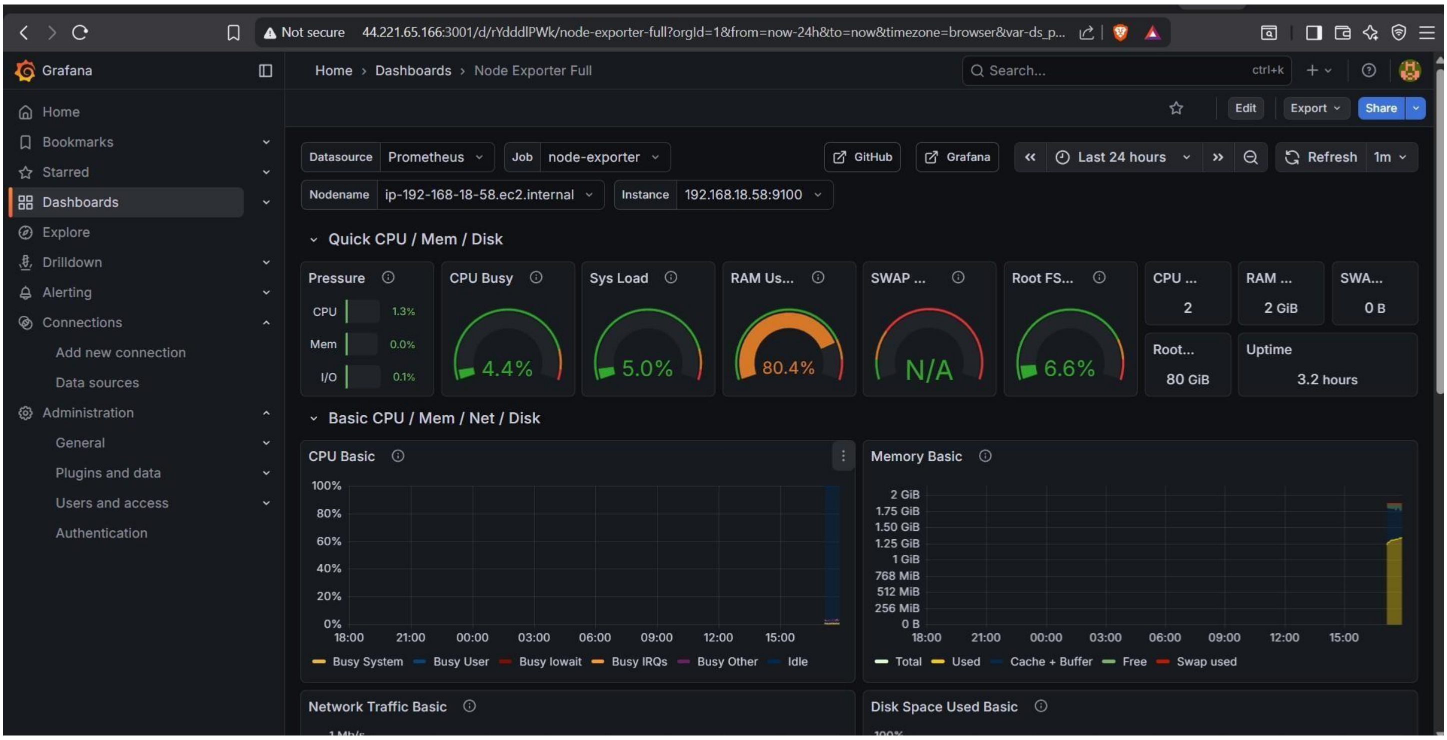
```
       If you understand and want to proceed repeat the command including --classic.
ubuntu@ip-172-31-65-63:~$ sudo snap install helm --classic
helm 4.0.4 from Snapcrafters✪ installed
ubuntu@ip-172-31-65-63:~$ helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
"prometheus-community" has been added to your repositories
ubuntu@ip-172-31-65-63:~$ helm repo add grafana https://grafana.github.io/helm-charts
"grafana" has been added to your repositories
ubuntu@ip-172-31-65-63:~$ helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "grafana" chart repository
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. ⎈Happy Helming!⎈
ubuntu@ip-172-31-65-63:~$ helm install prometheus prometheus-community/kube-prometheus-stack
NAME: prometheus
LAST DEPLOYED: Fri Jan  2 11:35:41 2026
NAMESPACE: default
STATUS: deployed
REVISION: 1
DESCRIPTION: Install complete
NOTES:
kube-prometheus-stack has been installed. Check its status by running:
  kubectl --namespace default get pods -l "release=prometheus"

Get Grafana 'admin' user password by running:

  kubectl --namespace default get secrets prometheus-grafana -o jsonpath="{.data.admin-password}" | base64 -d ; echo

Access Grafana local instance:

  export POD_NAME=$(kubectl --namespace default get pod -l "app.kubernetes.io/name=grafana,app.kubernetes.io/instance=prometheus" -oname)
  kubectl --namespace default port-forward $POD_NAME 3000

Get your grafana admin user password by running:
```

16] grafana setup


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00ffe...
Search
[Alt+S]
United States (N. Virginia) ▼
Account ID: 0459-9814-6012 ▼
sudharsan

```
ubuntu@ip-172-31-65-63:~$ kubectl get svc
NAME                                      TYPE           CLUSTER-IP       EXTERNAL-IP                                                                PORT(S)
         AGE
alertmanager-operated                     ClusterIP      None             <none>                                                                     9093/TCP,9094/TCP,9
094/UDP   31m
kubernetes                                ClusterIP      10.100.0.1       <none>                                                                     443/TCP
         3h1m
prometheus-grafana                        ClusterIP      10.100.27.95     <none>                                                                     80/TCP
         31m
prometheus-kube-prometheus-alertmanager   ClusterIP      10.100.211.167   <none>                                                                     9093/TCP,8080/TCP
         31m
prometheus-kube-prometheus-operator       ClusterIP      10.100.55.223    <none>                                                                     443/TCP
         31m
prometheus-kube-prometheus-prometheus     ClusterIP      10.100.155.131   <none>                                                                     9090/TCP,8080/TCP
         31m
prometheus-kube-state-metrics             ClusterIP      10.100.61.137    <none>                                                                     8080/TCP
         31m
prometheus-operated                       ClusterIP      None             <none>                                                                     9090/TCP
         31m
prometheus-prometheus-node-exporter       ClusterIP      10.100.236.26    <none>                                                                     9100/TCP
         31m
trend-service                             LoadBalancer   10.100.1.7       a94af6df62d69453f99b84f089f39faf-1384366194.us-east-1.elb.amazonaws.com   80:31708/TCP
         168m
ubuntu@ip-172-31-65-63:~$ kubectl get secret prometheus-grafana -o jsonpath="{.data.admin-password}" | base64 --decode
UJr4JEuzI5SUWjysyX06VOzBIJWikdcqeNW0uKRxubuntu@ip-172-31-65-63:~$
ubuntu@ip-172-31-65-63:~$ kubectl port-forward --address 0.0.0.0 svc/prometheus-grafana 3001:80
Forwarding from 0.0.0.0:3001 -> 3000
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
Handling connection for 3001
```

17] monitoring using prometheus and grafana



Not secure 44.221.65.166:3001/d/rYdddlPWk/node-exporter-full?orgId=1&from=now-24h&to=now&timezone=browser&var-ds_p...

Home › Dashboards › Node Exporter Full

Datasource Prometheus

Job node-exporter

Nodename ip-192-168-18-58.ec2.internal

Instance 192.168.18.58:9100

Last 24 hours

Refresh 1m