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Batch :- DevOps SA2406007

**Certification Project – Medicure Healthcare
Domain**

Submission 1st time

Fork the repository

The screenshot shows a browser window with several tabs open. The active tab is for the repository `StarAgileDevOpsTraining/star-agile-health-care` on GitHub. The page displays a list of commits from a user named `shubhamkushwah123`. At the top right, there is a button labeled "Fork 423". A tooltip over this button reads "Fork your own copy of StarAgileDevOpsTraining/star-agile-health-care". Below the fork button, there is an "About" section which states "No description, website, or topics provided." and includes metrics like 4 stars, 0 watching, and 423 forks. The bottom of the screen shows a taskbar with various icons and the system tray indicating it's 11:12 AM on November 14, 2024.

Copy of the git repo url

The screenshot shows a browser window with several tabs open. The active tab is for the repository `NaveenkumarCumM/health-care` on GitHub. The page displays a list of files and a "Clone" section with a URL field containing `https://github.com/NaveenkumarCumM/health-care`. The "About" section indicates the repository was forked from `StarAgileDevOpsTraining/star-agile-health-care`. The bottom of the screen shows a taskbar with various icons and the system tray indicating it's 11:13 AM on November 14, 2024.

Creation of access key and pass key

The screenshot shows the AWS IAM console interface. On the left, a sidebar lists navigation options like Dashboard, Access management, and Access reports. The main area displays 'Account details' with fields for Account name (naveenkumarCum), Email address (naveenkumarCum@gmail.com), AWS account ID (730335662502), and Canonical user ID (a6665e27adfb0286d3ecf67aae62cce6d50e884e54b3489e6ab47099d1f4b073). Below this is a section for Multi-factor authentication (MFA) with one entry: Type (Virtual), Identifier (arn:aws:iam::730335662502:mfa/Authapp), Certifications (Not Applicable), and Created on (Fri Nov 01 2024). The final section shows 'Access keys (1)' with one key listed: Access key ID (AKIA2UC3F2GKZGCHNC3), Created on (Now), Access key last used (None), Region last used (N/A), Service last used (N/A), and Status (Active). A 'Create access key' button is visible.

Using visual studio here created the instances kuber-master, kub-s1, kub-2, Jenkins-master, Jenkins-slave using the Terrafrom we created the ec2 instances with their other dependence's.

The screenshot shows Visual Studio Code with a Terraform configuration file named 'medicure.tf'. The code defines two AWS instances: 'jenkins_master' and 'jenkins_SL'. The 'jenkins_master' instance uses AMI ami-0f58b397bc5c1f2e8, type t2.micro, and is associated with a public IP. It is part of a security group 'proj'. The 'jenkins_SL' instance uses AMI ami-0f58b397bc5c1f2e8, type t2.micro, and is also associated with a public IP, part of the same security group 'proj'. Both instances have a tag 'Name' set to 'jenkins_master' and 'jenkins_SL' respectively. Below the code editor, the terminal window shows the command 'terraform init' being run, followed by a message indicating successful initialization. The status bar at the bottom right shows the terminal has 158 lines, 4 spaces, and is in CRLF mode.

```
nn > medicure.tf > resource "aws_instance" "instance9"
1 provider "aws" {
2   region = "ap-south-1"
3   access_key =
4   secret_key =
5 }
6
7
8 # Create VPC
9
10 resource "aws_vpc" "myvpc9" {
11   cidr_block      = "10.0.0.0/16"
12   instance_tenancy = "default"
13
14   tags = {
15     Name = "myvpc9"
16   }
17 }
18
19 # Create Subnet
20
21 resource "aws_subnet" "mysubnet9" {
22   vpc_id        = aws_vpc.myvpc9.id
23   cidr_block    = "10.0.1.0/24"
24
25   tags = {
26     Name = "mysubnet9"
27   }
28 }
29
30 # Internet Gateway
31
32 resource "aws_internet_gateway" "mygw9" {
33   vpc_id = aws_vpc.myvpc9.id
34
35   tags = {
36     Name = "mygw9"
37   }
38 }
```

This screenshot shows the initial state of a Terraform configuration. It defines a VPC with a single subnet and an internet gateway. The configuration uses AWS provider version 2.

```
nn > medicure.tf > resource "aws_instance" "instance9"
38 }
39
40 # Route Table
41
42 resource "aws_route_table" "myrt9" {
43   vpc_id = aws_vpc.myvpc9.id
44
45   route {
46     cidr_block = "0.0.0.0/0"
47     gateway_id = aws_internet_gateway.mygw9.id
48   }
49
50   tags = {
51     Name = "myrt9"
52   }
53 }
54
55 # Route Table Association
56
57 resource "aws_route_table_association" "myrta9" {
58   subnet_id = aws_subnet.mysubnet9.id
59   route_table_id = aws_route_table.myrt9.id
60 }
61
62 # Security Groups
63
64 resource "aws_security_group" "mysg9" {
65   name      = "mysg9"
66   description = "Allow inbound traffic"
67   vpc_id    = aws_vpc.myvpc9.id
68
69   ingress {
70     description = "HTTP"
71     from_port   = 80
72     to_port     = 80
73     protocol    = "tcp"
74     cidr_blocks = ["0.0.0.0/0"]
75   }
76 }
```

This screenshot shows the completed Terraform configuration. It adds a route table, associates it with the subnet, and creates a security group allowing HTTP traffic on port 80. The configuration uses AWS provider version 2.

```
File Edit Selection View Go Run Terminal Help < > naveen
EXPLORER OPEN EDITORS medicure.tf nn
NAVEEN .terraform .as-1 nn
medicure.tf .terraform.lock.hcl aws-Instance.tf medicure terraform.tfstate terraform.tfstate.backup
medicure.tf
resource "aws_instance" "instance9" {
    ami           = "ami-0f5ab397bc5c1f2e8"
    instance_type = "t2.micro"
    associate_public_ip_address = true
    subnet_id     = aws_subnet.mysubnet9.id
    vpc_security_group_ids = [aws_security_group.mysg9.id]
    key_name      = "proj"
    tags = {
        Name = "kuber_master"
    }
}

resource "aws_instance" "instance9" {
    ami           = "ami-0f5ab397bc5c1f2e8"
    instance_type = "t2.micro"
    associate_public_ip_address = true
    subnet_id     = aws_subnet.mysubnet9.id
    vpc_security_group_ids = [aws_security_group.mysg9.id]
    key_name      = "proj"
    tags = {
        Name = "kub-s1"
    }
}

Ln 158, Col 1 Spaces: 4 UTF-8 CRLF {} Terraform
main Type here to search 23°C Mostly clear 207 AM IN 11/14/2024
```

```
File Edit Selection View Go Run Terminal Help < > naveen
EXPLORER OPEN EDITORS medicure.tf nn
NAVEEN .terraform .as-1 nn
medicure.tf .terraform.lock.hcl aws-Instance.tf medicure terraform.tfstate terraform.tfstate.backup
medicure.tf
resource "aws_instance" "instance9" {
    tags = {
        Name = "kub-s1"
    }
}

resource "aws_instance" "instance9" {
    ami           = "ami-0f5ab397bc5c1f2e8"
    instance_type = "t2.micro"
    associate_public_ip_address = true
    subnet_id     = aws_subnet.mysubnet9.id
    vpc_security_group_ids = [aws_security_group.mysg9.id]
    key_name      = "proj"
    tags = {
        Name = "kub-s2"
    }
}

resource "aws_instance" "instance9" {
    ami           = "ami-0f5ab397bc5c1f2e8"
    instance_type = "t2.micro"
    associate_public_ip_address = true
    subnet_id     = aws_subnet.mysubnet9.id
    vpc_security_group_ids = [aws_security_group.mysg9.id]
    key_name      = "proj"
    tags = {
        Name = "jenkins_master"
    }
}

resource "aws_instance" "instance9" {
    ami           = "ami-0f5ab397bc5c1f2e8"
    instance_type = "t2.micro"
    associate_public_ip_address = true
    subnet_id     = aws_subnet.mysubnet9.id
}

Ln 158, Col 1 Spaces: 4 UTF-8 CRLF {} Terraform
main Type here to search 23°C Mostly clear 207 AM IN 11/14/2024
```

```

resource "aws_instance" "instance9" {
  ami           = "ami-0f58b397bc5c1f2e8"
  instance_type = "t2.micro"
  associate_public_ip_address = true
  subnet_id     = aws_subnet.mysubnet9.id
  vpc_security_group_ids = [aws_security_group.mysql9.id]
  key_name      = "proj"

  tags = {
    Name = "kub-s2"
  }
}

resource "aws_instance" "instance9" {
  ami           = "ami-0f58b397bc5c1f2e8"
  instance_type = "t2.micro"
  associate_public_ip_address = true
  subnet_id     = aws_subnet.mysubnet9.id
  vpc_security_group_ids = [aws_security_group.mysql9.id]
  key_name      = "proj"

  tags = {
    Name = "jenkins_master"
  }
}

resource "aws_instance" "instance9" {
  ami           = "ami-0f58b397bc5c1f2e8"
  instance_type = "t2.micro"
  associate_public_ip_address = true
  subnet_id     = aws_subnet.mysubnet9.id
  vpc_security_group_ids = [aws_security_group.mysql9.id]
  key_name      = "proj"

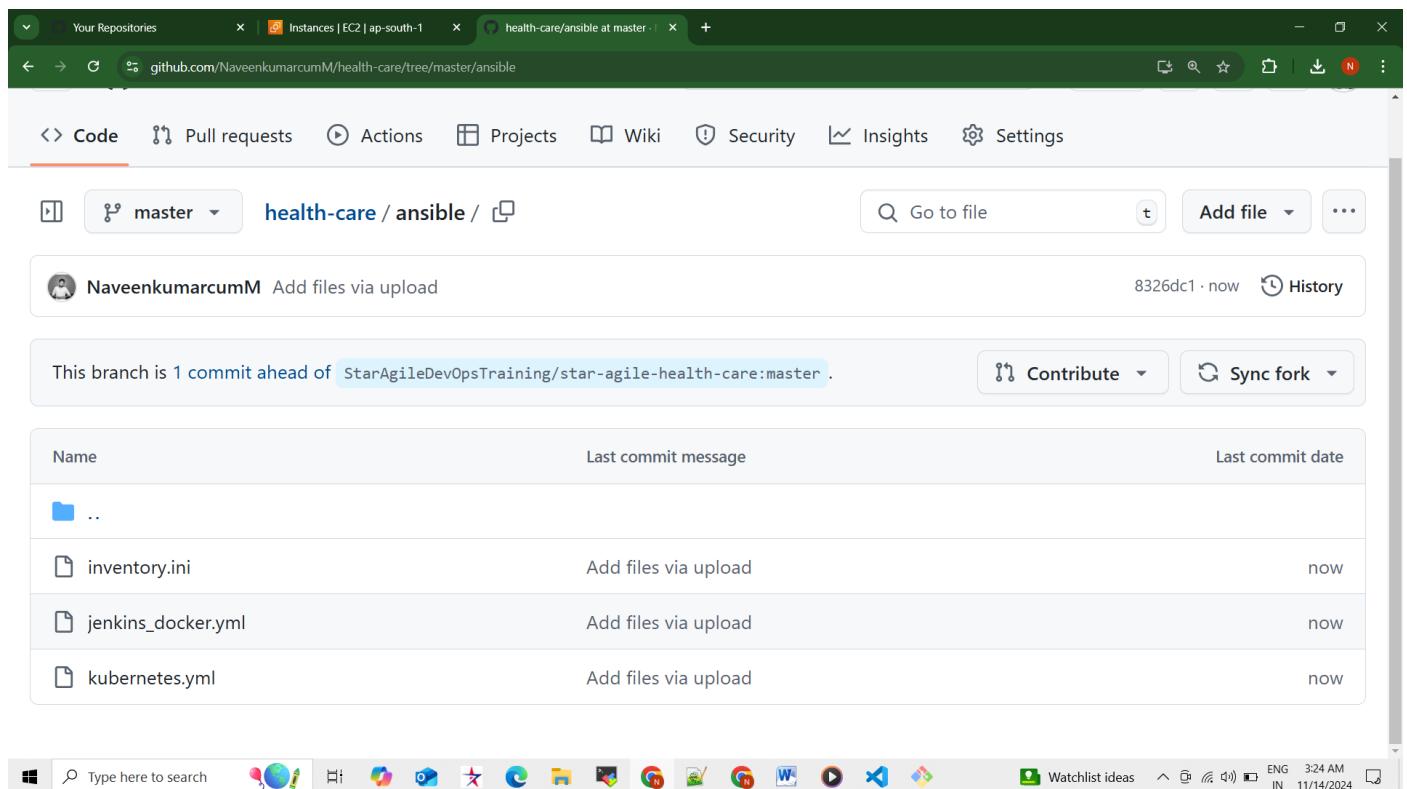
  tags = {
    Name = "jenkins_SL"
  }
}

```

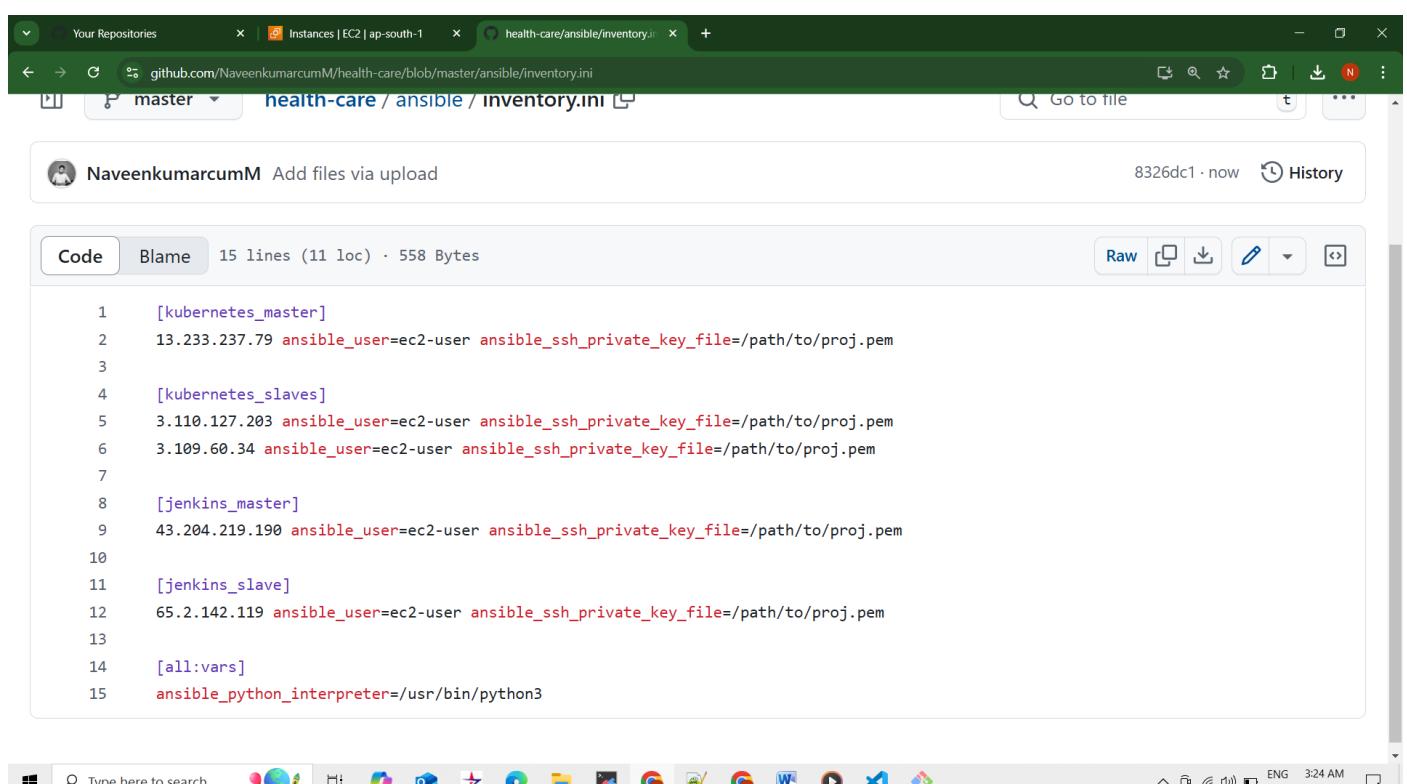
Instances are created.

Name	Instance ID	Instance state	Instance type	Status check
kuber_master	i-0f58b397bc5c1f2e8	Running	t2.medium	2/2 checks passed
kub-s1	i-0b08235bc0ea25605	Running	t2.medium	2/2 checks passed
kub-s2	i-016372a22e87f02c6	Running	t2.medium	2/2 checks passed
Jenkins_master	i-09705e258c2b9180c	Running	t2.medium	2/2 checks passed
Jenkins_SL	i-0a919a46933e412fe	Running	t2.medium	2/2 checks passed

Ansible file contains the inventory.ini and Jenkins-docker.yaml , kube.yml to install required dependences.



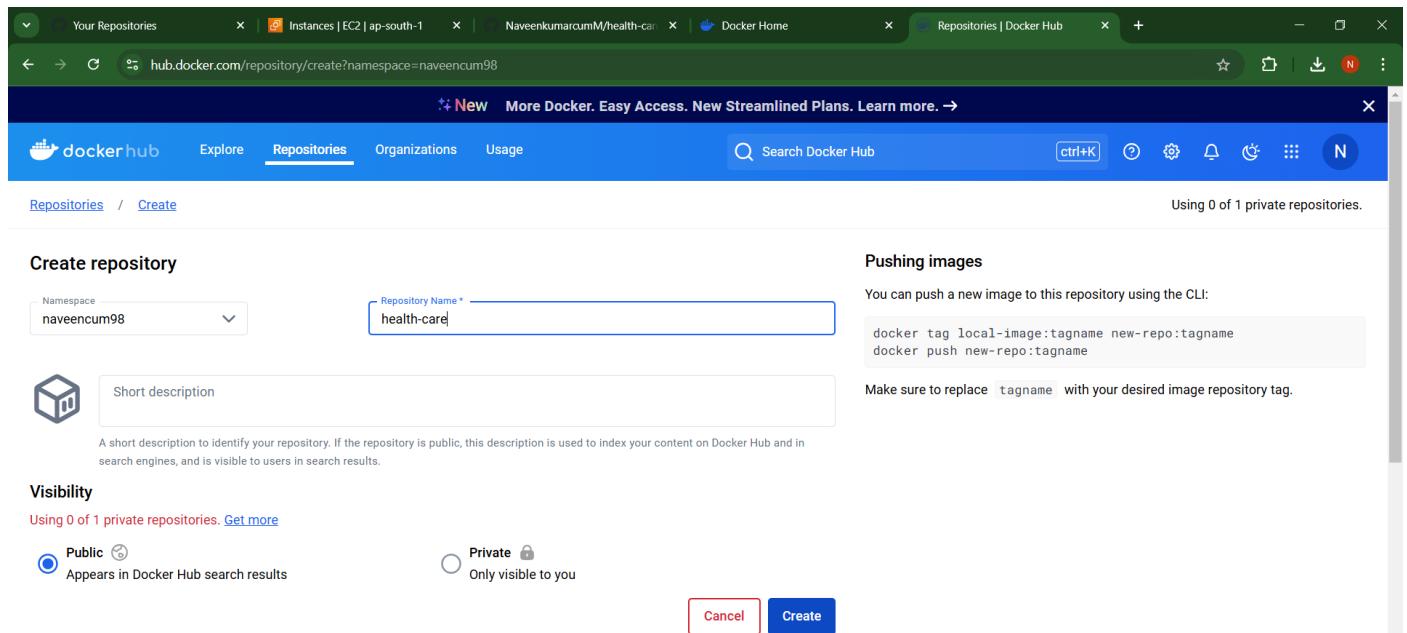
This screenshot shows the GitHub repository page for 'health-care/ansible' at the 'master' branch. The repository has one commit by 'NaveenkumarCumM' added via upload, which is 1 commit ahead of 'StarAgileDevOpsTraining/star-agile-health-care'. The commit message is 'Add files via upload'. The commit was made at 8326dc1 · now. The repository contains four files: 'inventory.ini', 'jenkins_docker.yaml', and 'kubernetes.yml', all added via upload. The 'inventory.ini' file is shown in the code editor.



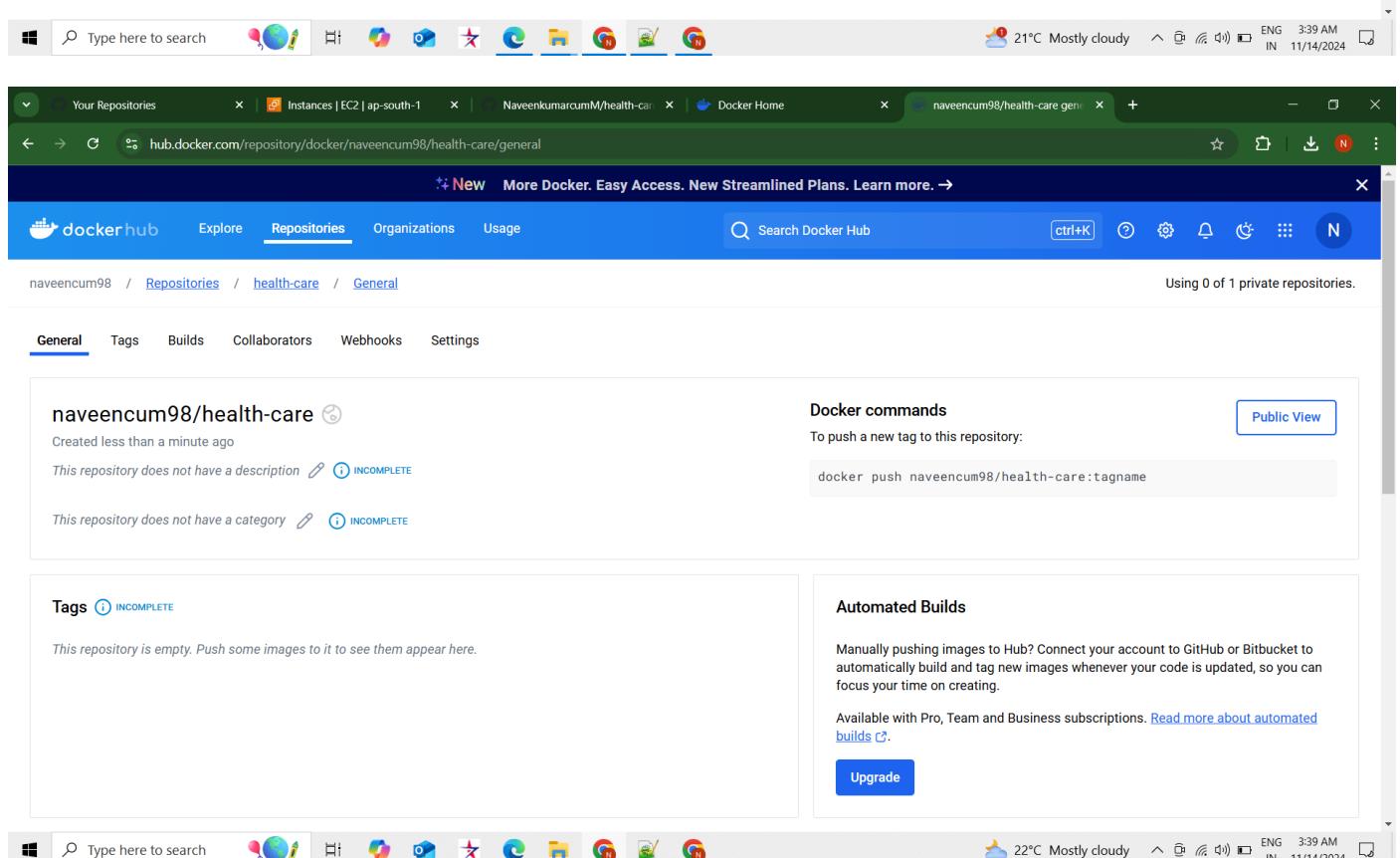
This screenshot shows the GitHub file view for 'inventory.ini' in the 'health-care/ansible' repository. The file contains 15 lines of Ansible configuration. The code editor shows the following content:

```
1 [kubernetes_master]
2 13.233.237.79 ansible_user=ec2-user ansible_ssh_private_key_file=/path/to/proj.pem
3
4 [kubernetes_slaves]
5 3.110.127.203 ansible_user=ec2-user ansible_ssh_private_key_file=/path/to/proj.pem
6 3.109.60.34 ansible_user=ec2-user ansible_ssh_private_key_file=/path/to/proj.pem
7
8 [jenkins_master]
9 43.204.219.190 ansible_user=ec2-user ansible_ssh_private_key_file=/path/to/proj.pem
10
11 [jenkins_slave]
12 65.2.142.119 ansible_user=ec2-user ansible_ssh_private_key_file=/path/to/proj.pem
13
14 [all:vars]
15 ansible_python_interpreter=/usr/bin/python3
```

In docker hub I created the repository named health-care. And made that as a public

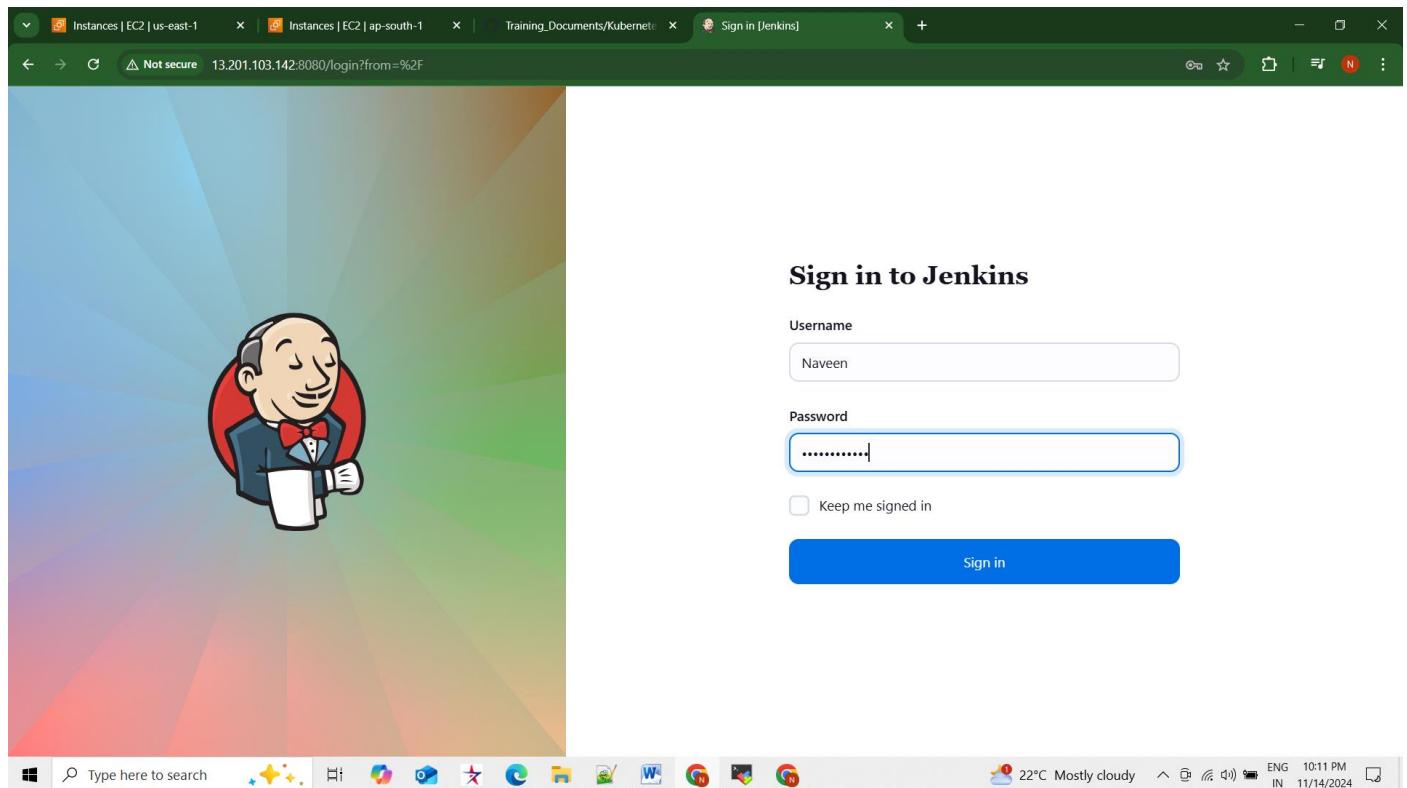


The screenshot shows the Docker Hub 'Create repository' page. A namespace 'naveencum98' is selected. The repository name is set to 'health-care'. A short description is present. Under 'Visibility', 'Public' is selected, indicated by a blue radio button. The 'Create' button is visible at the bottom right.



The screenshot shows the Docker Hub repository details page for 'naveencum98/health-care'. The 'General' tab is selected. It displays basic repository information: 'Created less than a minute ago', 'This repository does not have a description', and 'This repository does not have a category'. On the right, there's a 'Docker commands' section with a 'Public View' button and a command input field containing 'docker push naveencum98/health-care:tagname'. Below it is an 'Automated Builds' section with a 'Upgrade' button.

Login to Jenkins and create a own user name and password .



Create a new item named as health-care and chosen pipeline.

Jenkins

Dashboard > health-care >

Status

health-care

Permalinks

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

Builds

Today

#1 10:14 PM

REST API Jenkins 2.479.1

In publish over ssh created the host as below.

Instances | EC2 | ap-south-1

EC2 Instance Connect

health-care/jenkinsfile at master

System [Jenkins]

Dashboard [Jenkins]

SSH Servers

SSH Server

Name: SA_WD_Kubernetes_Master

Hostname: 172.31.37.67

Username: devopsadmin

Remote Directory: /home/devopsadmin

Avoid sending files that have not changed:

Advanced Edited

Use password authentication, or use a different key:

Save Apply

25°C Mostly cloudy

ENG IN 11/14/2024

Test configuration is SUCCESS

The screenshot shows the Jenkins System Configuration page. It includes fields for Proxy port, Proxy user, and Proxy password, all of which are empty. A 'Success' message is displayed below the fields. A 'Test Configuration' button is located in the top right corner. At the bottom, there are 'Add', 'Advanced', 'Save', and 'Apply' buttons. The Jenkins version is listed as 2.479.1.

Write a pipeline script with the help of the pipeline syntax generator.

The screenshot shows the Jenkins Pipeline Syntax generator. The 'Pipeline' tab is selected. In the 'Definition' section, 'Pipeline script' is chosen. The 'Script' area contains the following Groovy pipeline code:

```
1 pipeline {
2     agent { label 'slave-1' }
3     environment {
4         DOCKERHUB_CREDENTIALS=credentials('dockerloginid')
5     }
6     stages {
7         stage('SCM Checkout') {
8             steps {
9                 echo 'Perform SCM Checkout'
10                git 'https://github.com/HaveenKumarCmM/health-care.git'
11            }
12        }
13        stage('Application Build') {
14            steps {
15                echo 'Building Application'
16            }
17        }
18    }
19}
```

A checkbox for 'Use Groovy Sandbox' is checked. Below the script, there is a 'Pipeline Syntax' section. At the bottom, there are 'Save' and 'Apply' buttons. The Jenkins version is listed as 2.479.1.

The screenshot shows the Jenkins Pipeline configuration page for a project named 'health-care'. The 'Pipeline' tab is selected. The 'Definition' section contains a 'Pipeline script' editor with the following Groovy code:

```
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50 }
```

Below the code editor is a checkbox labeled 'Use Groovy Sandbox' which is checked. At the bottom of the page are 'Save' and 'Apply' buttons.

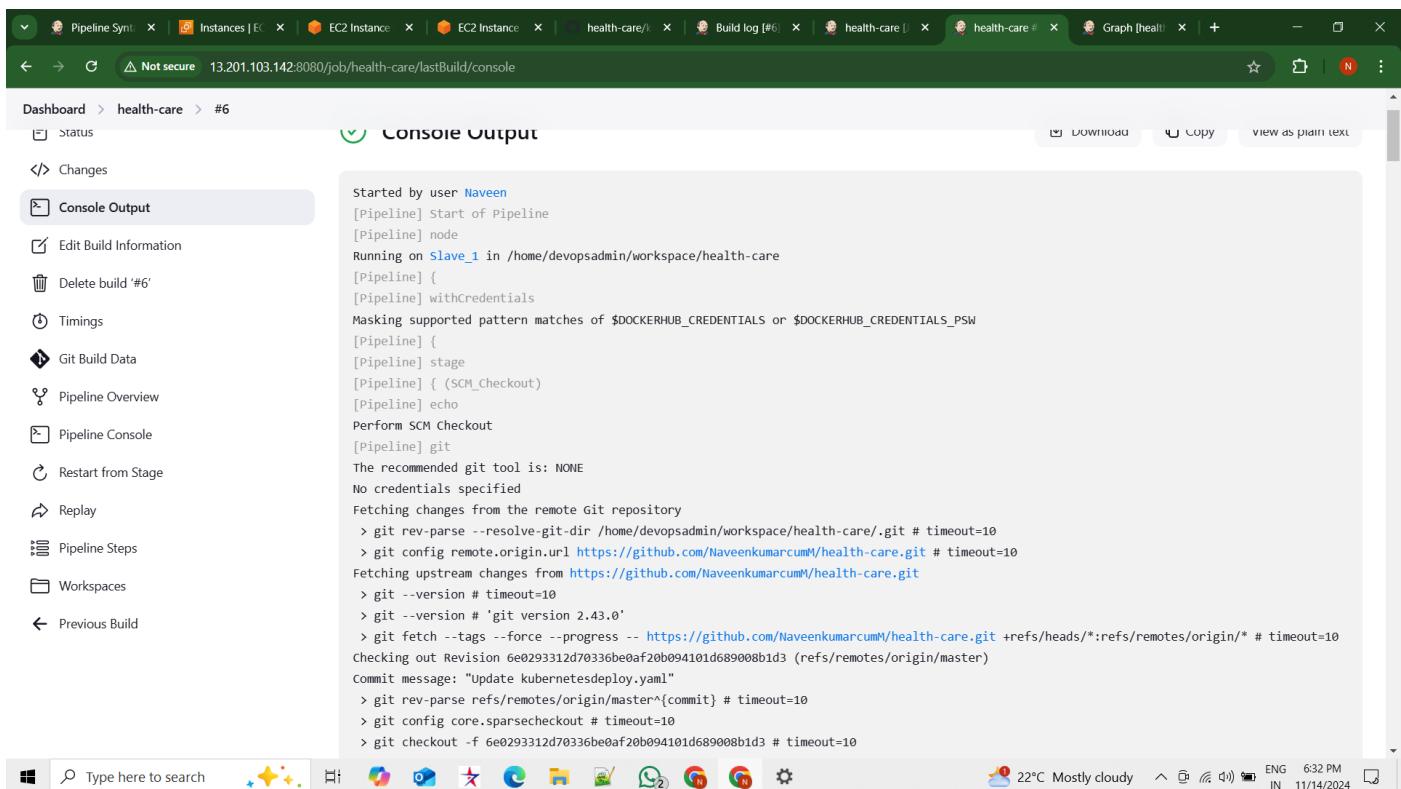
After apply and save next is to build now.

The screenshot shows the Jenkins dashboard for the 'health-care' pipeline. The pipeline status is shown as 'green' with a checkmark icon. The 'Builds' section displays the following build history:

- #6 12:43 PM (Green)
- #5 12:36 PM (Yellow)
- #4 12:27 PM (Yellow)
- #3 11:10 AM (Yellow)

At the bottom of the dashboard, there is a Windows taskbar with various pinned icons and system status indicators.

Build number 6 is success and running on the slave-1. Below is the console output .

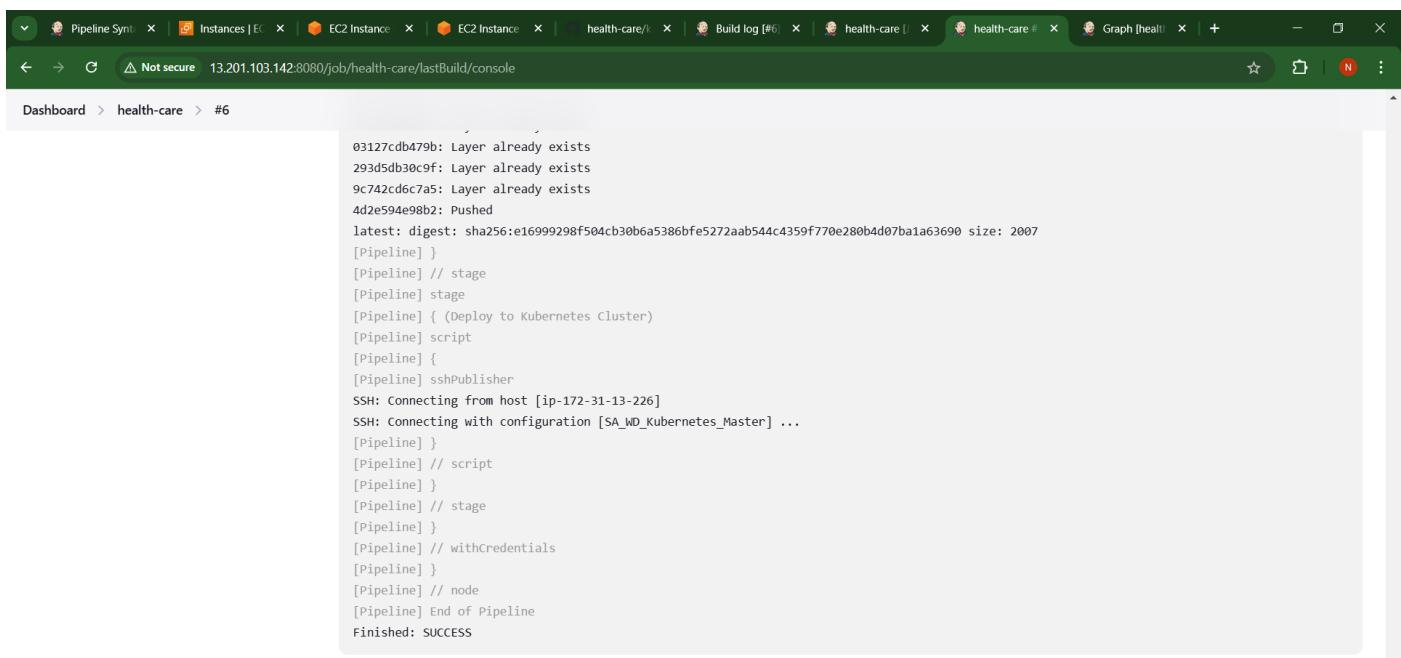


Dashboard > health-care > #6

Console Output

started by user Naveen
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Slave_1 in /home/devopsadmin/workspace/health-care
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of \$DOCKERHUB_CREDENTIALS or \$DOCKERHUB_CREDENTIALS_PSW
[Pipeline] {
[Pipeline] stage
[Pipeline] { (SCM_Checkout)
[Pipeline] echo
Perform SCM Checkout
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
Fetching changes from the remote Git repository
> git rev-parse --resolve-git-dir /home/devopsadmin/workspace/health-care/.git # timeout=10
> git config remote.origin.url https://github.com/NaveenkumarCumM/health-care.git # timeout=10
Fetching upstream changes from https://github.com/NaveenkumarCumM/health-care.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/NaveenkumarCumM/health-care.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Checking out Revision 6e0293312d70336be0af20b094101d689008b1d3 (refs/remotes/origin/master)
Commit message: "Update kubernetesdeploy.yaml"
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git config core.sparsecheckout # timeout=10
> git checkout -f 6e0293312d70336be0af20b094101d689008b1d3 # timeout=10

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Dashboard > health-care > #6

03127cdb479b: Layer already exists
293d5db30c9f: Layer already exists
9c742cd6c7a5: Layer already exists
4d2e594e98b2: Pushed
latest: digest: sha256:e16999298f504cb30b6a5386bfe5272aab544c4359f770e280b4d07ba1a63690 size: 2007
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy to Kubernetes Cluster)
[Pipeline] script
[Pipeline] {
[Pipeline] sshPublisher
SSH: Connecting from host [ip-172-31-13-226]
SSH: Connecting with configuration [SA_WD_Kubernetes_Master] ...
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

REST API Jenkins 2.479.1



Pipe line over shows all the stages.

The screenshot shows the Jenkins Pipeline Overview for Build #6. The pipeline stages are represented by a horizontal timeline with green checkmarks indicating success. The stages are: Start, SCM_Checkout, Application Build, Docker Build, Login to Dockerhub, Publish the Image to Dockerhub, Deploy to Kubernetes Cluster, and End. The 'Deploy to Kubernetes Cluster' stage is currently selected. The 'Details' panel on the right provides information about the build, such as it was manually run by Naveen, started 17 minutes ago, queued for 2 ms, and took 33 seconds. The Jenkins version is 2.479.1. The taskbar at the bottom shows various application icons and the system clock.

This is pile line console of all the stages.

The screenshot shows the Jenkins Pipeline Console for Build #6. It displays the stages of the pipeline and their details. The stages listed on the left are: SCM_Checkout, Application Build, Docker Build, Login to Dockerhub, Publish the Image to Dockerhub, Deploy to Kubernetes Cluster. The 'Perform SCM Checkout' step is expanded, showing the command used to clone the repository from GitHub. The Jenkins version is 2.479.1. The taskbar at the bottom shows various application icons and the system clock.

Not secure 13.201.103.142:8080/job/health-care/6/pipeline-console/?selected-node=40

Jenkins

Search (CTRL+K) ? Naveen log out

Dashboard > health-care > #6 > Pipeline Console

Build #6

Success 9 min 22 sec ago in 33 sec

- SCM_Checkout
- Application Build**
- Docker Build
- Login to Dockerhub
- Publish the Image to Dockerhub
- Deploy to Kubernetes Cluster

Stage 'Application Build'

- Started 9 min 43 sec ago
- Queued 0 ms
- Took 10 sec
- Success

[View as plain text](#)

Perform Application Build

Print Message 20 ms

mvn clean package

Shell Script 10 sec

```
+ mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.project.staragile:medicure >-----
[INFO] Building medicure 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
```

Jenkins 2.479.1

Type here to search 22°C Mostly cloudy ENG 632 PM IN 11/14/2024

Not secure 13.201.103.142:8080/job/health-care/6/pipeline-console/?selected-node=40

Jenkins

Search (CTRL+K) ? Naveen log out

Dashboard > health-care > #6 > Pipeline Console

Build #6

Success 9 min 22 sec ago in 33 sec

- SCM_Checkout
- Application Build
- Docker Build**
- Login to Dockerhub
- Publish the Image to Dockerhub
- Deploy to Kubernetes Cluster

1	REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
2	naveencum98/health-care	6	9e57e12b67d7	1 second ago	695MB
3	naveencum98/health-care	latest	9e57e12b67d7	1 second ago	695MB
4	naveencum98/health-care	5	fc65172dbd54	6 minutes ago	695MB
5	naveencum98/health-care	4	f1841dc6079a	16 minutes ago	695MB
6	naveencum98/health-care	3	8c7d7ebda6da	2 hours ago	695MB
7	naveencum98/health-care	1	84958676e225	14 hours ago	695MB
8	naveencum98/bankapp-eta-app	14	5f29dfb17b52	42 hours ago	696MB
9	naveencum98/bankapp-eta-app	latest	5f29dfb17b52	42 hours ago	696MB
10	naveencum98/bankapp-eta-app	13	e2fc3a944862	42 hours ago	696MB
11	naveencum98/bankapp-eta-app	12	6591a853ca68	42 hours ago	696MB
12	naveencum98/bankapp-eta-app	11	5bbf6e79a1df	43 hours ago	696MB
13	naveencum98/bankapp-eta-app	10	c40a14f5daa4	43 hours ago	696MB
14	naveencum98/bankapp-eta-app	9	3a737e625f38	44 hours ago	696MB
15	naveen/bankapp-eta-app	8	26eea9ab4d40	44 hours ago	696MB
16	naveen/bankapp-eta-app	latest	26eea9ab4d40	44 hours ago	696MB
17	naveen/bankapp-eta-app	7	b5ae262e537c	44 hours ago	696MB
18	ubuntu	latest	59ab366372d5	4 weeks ago	78.1MB
19	hello-world	latest	d2c94e258dc8	18 months ago	13.3kB

Jenkins 2.479.1

Type here to search Rain tomorrow ENG 633 PM IN 11/14/2024

Jenkins

Dashboard > health-care > #6 > Pipeline Console

Build #6

Success 9 min 22 sec ago in 33 sec

SCM_Checkout
Application Build
Docker Build
Login to Dockerhub
Publish the Image to Dockerhub
Deploy to Kubernetes Cluster

Stage 'Login to Dockerhub'
Started 9 min 29 sec ago
Queued 0 ms
Took 2.2 sec
Success
[View as plain text](#)

Login to DockerHub
Print Message

echo \$DOCKERHUB_CREDENTIALS_PSW | docker login -u \$DOCKERHUB_CREDENTIALS_USR --password-stdin
Shell Script

```
0 + echo ****  
1 + docker login -u naveencum98 --password-stdin  
2 WARNING! Your password will be stored unencrypted in /home/devopsadmin/.docker/config.json.  
3 Configure a credential helper to remove this warning. See  
4 https://docs.docker.com/engine/reference/commandline/login/#credential-stores  
5
```

Jenkins 2.479.1

Jenkins

Dashboard > health-care > #6 > Pipeline Console

Build #6

Success 9 min 22 sec ago in 33 sec

SCM_Checkout
Application Build
Docker Build
Login to Dockerhub
Publish the Image to Dockerhub
Deploy to Kubernetes Cluster

Stage 'Publish the Image to Dockerhub'
Started 9 min 27 sec ago
Queued 0 ms
Took 14 sec
Success
[View as plain text](#)

Publish to DockerHub
Print Message

docker push naveencum98/health-care:latest
Shell Script

```
1 The push refers to repository [docker.io/naveencum98/health-care]  
2 4d2e594e98b2: Preparing  
3 7b7f3078e1db: Preparing  
4 826c3ddbb29c: Preparing  
5 b626401ef603: Preparing  
6 9b55156abf26: Preparing
```

Jenkins 2.479.1

The screenshot shows the Jenkins Pipeline Console for a build named 'Build #6'. The pipeline stages listed on the left are: SCM_Checkout, Application Build, Docker Build, Login to Dockerhub, Publish the Image to Dockerhub, and Deploy to Kubernetes Cluster. The 'Deploy to Kubernetes Cluster' stage is highlighted with a yellow background. The main pane displays the 'Stage 'Deploy to Kubernetes Cluster'' details, which include: Started 9 min 12 sec ago, Queued 0 ms, Took 1.3 sec, Success, and a 'View as plain text' link. Below this is another stage, 'Send build artifacts over SSH', which shows log entries: 'SSH: Connecting from host [ip-172-31-13-226]' and 'SSH: Connecting with configuration [SA_WD_Kubernetes_Master] ...'. A green bar at the bottom indicates a duration of 1.2 sec. The Jenkins version is 2.479.1.

Adding the credentials and make them as global.

The screenshot shows the Jenkins 'Manage Jenkins > Credentials' page. The 'Credentials' section lists two entries: 'System' (ID: slave-1, Name: devopsadmin (slave-1 project)) and 'System' (ID: dockerloginid, Name: naveencum98/*****). Below this is the 'Stores scoped to Jenkins' section, which shows a single entry: 'System' (Domains: (global)). The Jenkins version is 2.479.1.

Stores scoped to Jenkins

P Store ↓ Domains

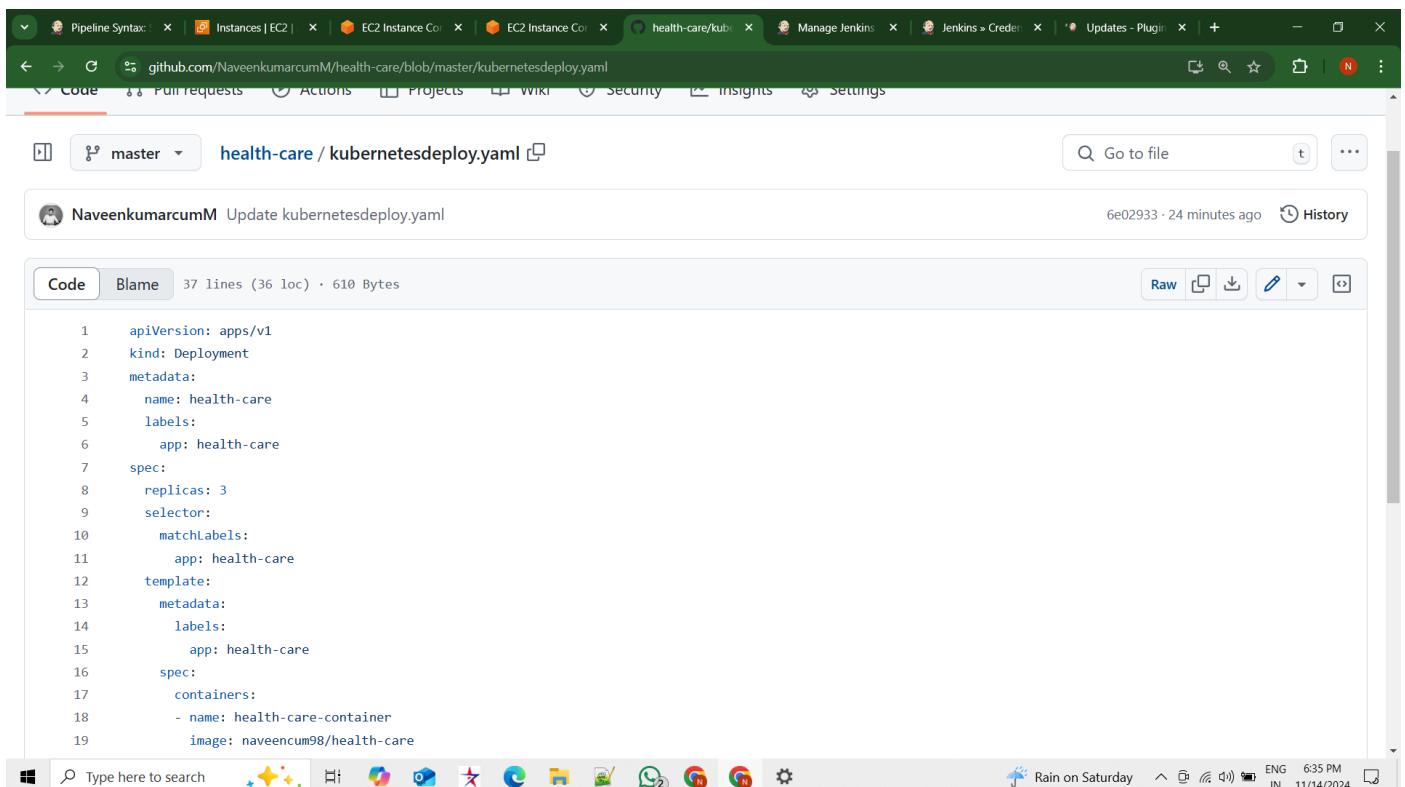
System (global)

Icon: S M L

REST API Jenkins 2.479.1

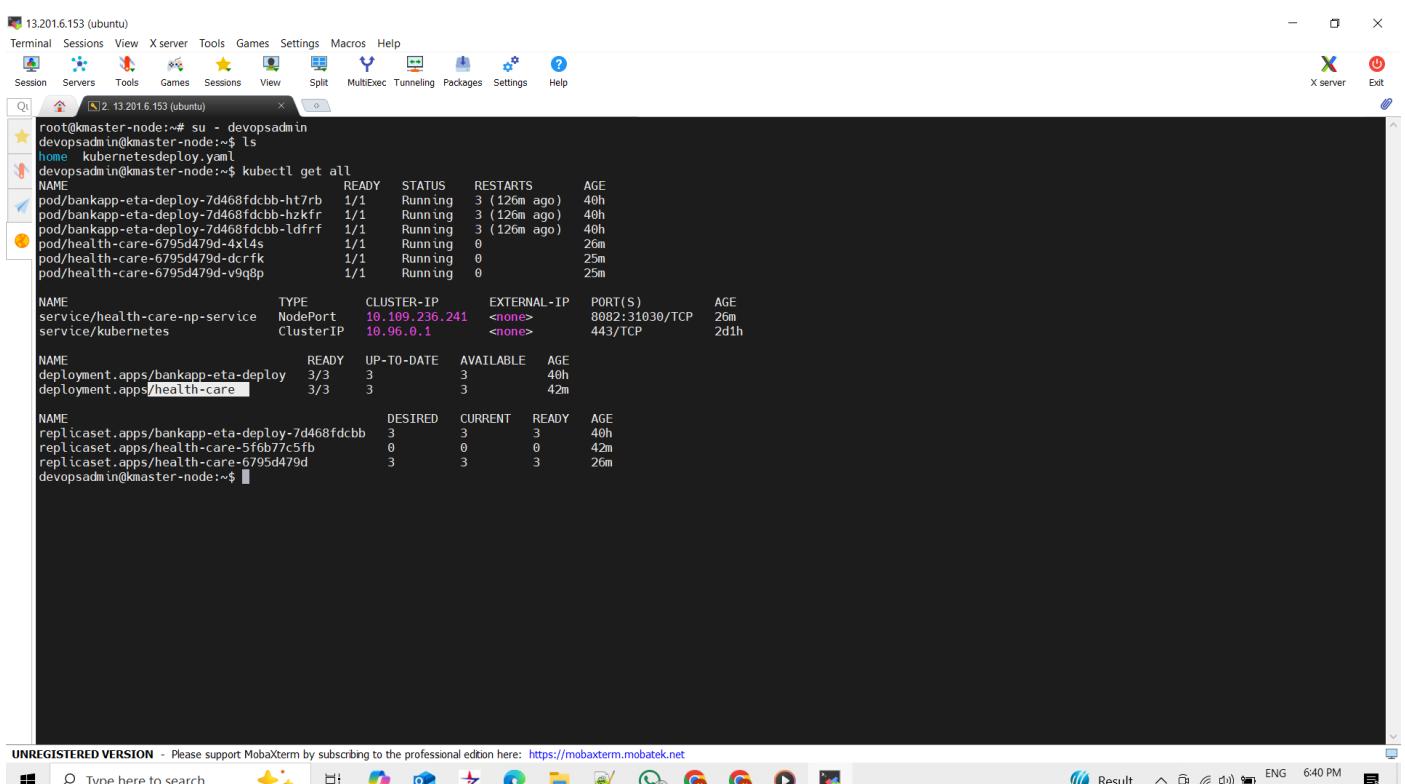


In git hub repo created the kubernetesdeploy.yaml manifest file.



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: health-care
  labels:
    app: health-care
spec:
  replicas: 3
  selector:
    matchLabels:
      app: health-care
  template:
    metadata:
      labels:
        app: health-care
    spec:
      containers:
        - name: health-care-container
          image: naveencum98/health-care
```

When we use the kubectl get all we can see the health-care.



```
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ ls
home kubernetesdeploy.yaml
devopsadmin@kmaster-node:~$ kubectl get all
NAME                                         READY   STATUS    RESTARTS   AGE
pod/bankapp-eta-deploy-7d468fdccb-h7rb   1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-hzkfr   1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-ldfrf   1/1    Running   3 (126m ago)  40h
pod/health-care-6795d479d-4x14s           1/1    Running   0          26m
pod/health-care-6795d479d-dcrfk           1/1    Running   0          25m
pod/health-care-6795d479d-v9q8p           1/1    Running   0          25m

NAME                           TYPE        CLUSTER-IP   EXTERNAL-IP  PORT(S)   AGE
service/health-care-np-service NodePort   10.109.236.241 <none>     8082:31030/TCP 26m
service/kubernetes             ClusterIP  10.96.0.1    <none>     443/TCP   2d1h

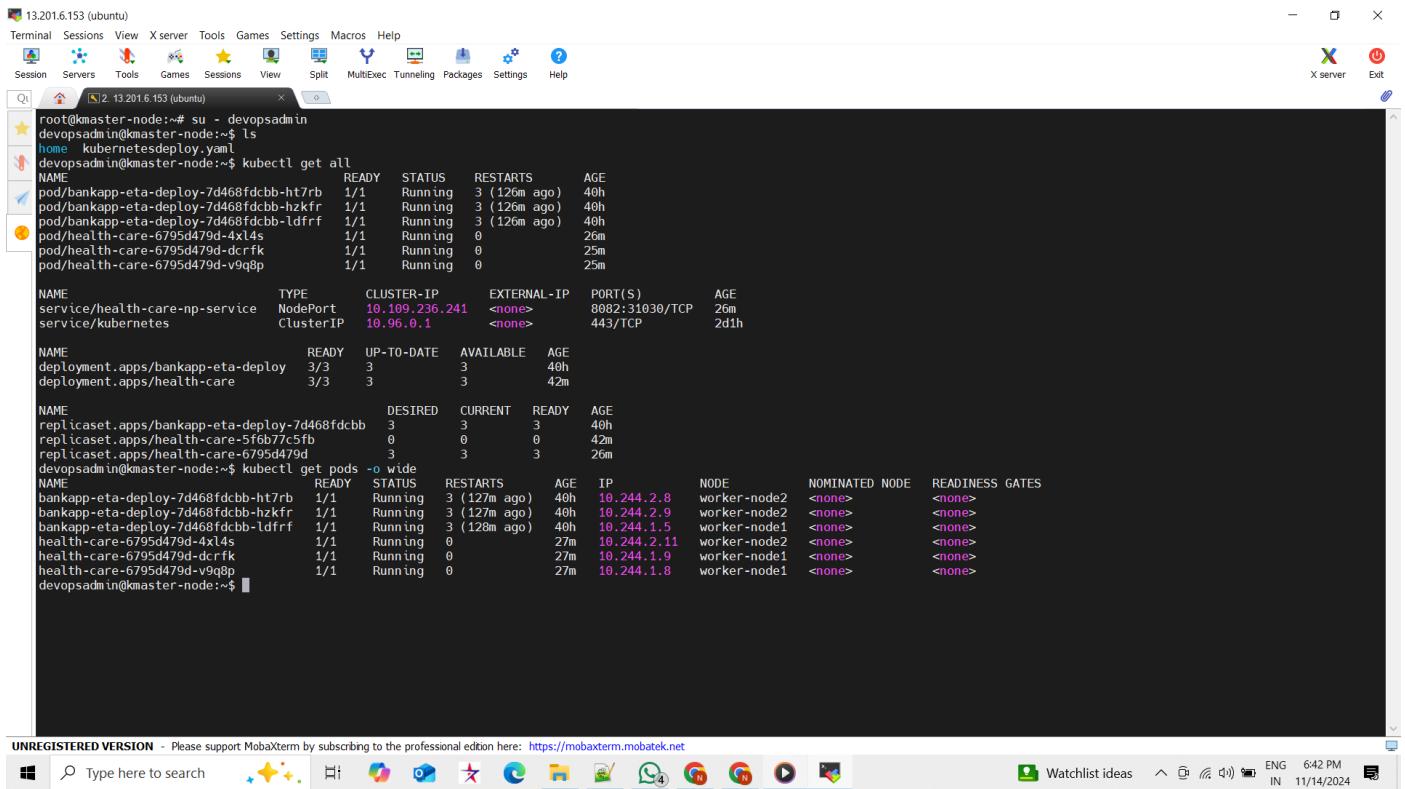
NAME                               READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/bankapp-eta-deploy 3/3    3           3           40h
deployment.apps/health-care         3/3    3           3           42m

NAME                           DESIRED  CURRENT  READY   AGE
replicaset.apps/bankapp-eta-deploy-7d468fdccb  3       3       3       40h
replicaset.apps/health-care-5fb677c5fb        0       0       0       42m
replicaset.apps/health-care-6795d479d         3       3       3       26m
devopsadmin@kmaster-node:~$
```

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Result ENG 6:40 PM IN 11/14/2024

Here in below shows that in which nodes they are running.



```
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ ls
home kubernetesdeploy.yaml
devopsadmin@kmaster-node:~$ kubectl get all
NAME                                     READY   STATUS    RESTARTS   AGE
pod/bankapp-eta-deploy-7d468fdccb-h7rb  1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-hzkfr  1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-ldffr  1/1    Running   3 (126m ago)  40h
pod/health-care-6795d479d-4x14s         1/1    Running   0          26m
pod/health-care-6795d479d-dcrfk        1/1    Running   0          25m
pod/health-care-6795d479d-v9q8p        1/1    Running   0          25m

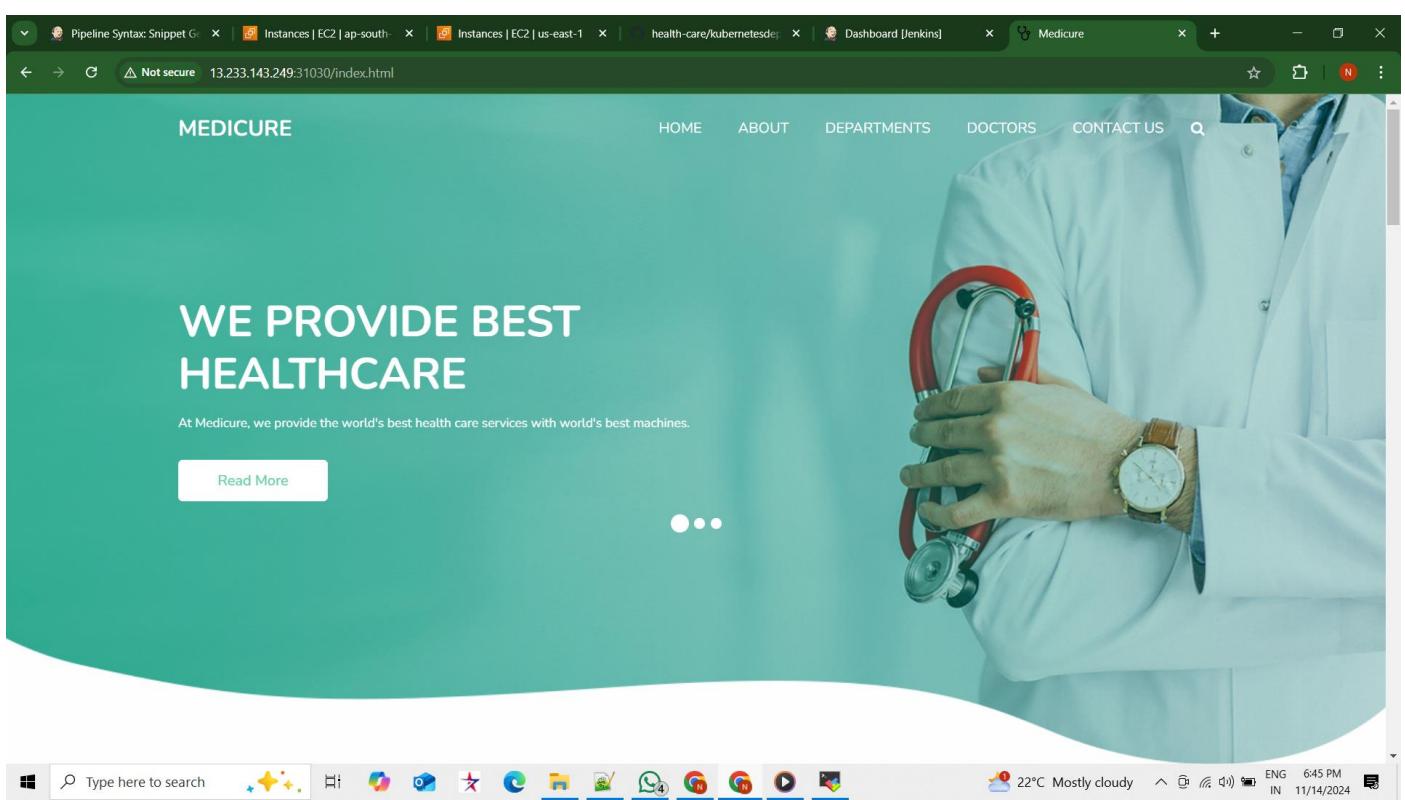
NAME           TYPE     CLUSTER-IP      EXTERNAL-IP   PORT(S)   AGE
service/health-care-np-service  NodePort  10.109.236.241 <none>       8082:31030/TCP  26m
service/kubernetes   ClusterIP  10.96.0.1    <none>       443/TCP    2d1h

NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/bankapp-eta-deploy  3/3     3           3           40h
deployment.apps/health-care        3/3     3           3           42m

NAME          DESIRED  CURRENT   READY   AGE
replicaset.apps/bankapp-eta-deploy-7d468fdccb  3        3        3        40h
replicaset.apps/health-care-5f6b77c5fb        0        0        0        42m
replicaset.apps/health-care-6795d479d          3        3        3        26m
devopsadmin@kmaster-node:~$ kubectl get pods -o wide
NAME                                     READY   STATUS    RESTARTS   AGE   IP           NODE   NOMINATED NODE   READINESS GATES
bankapp-eta-deploy-7d468fdccb-h7rb  1/1    Running   3 (127m ago)  40h  10.244.2.8  worker-node2  <none>        <none>
bankapp-eta-deploy-7d468fdccb-hzkfr  1/1    Running   3 (127m ago)  40h  10.244.2.9  worker-node2  <none>        <none>
bankapp-eta-deploy-7d468fdccb-ldffr  1/1    Running   3 (128m ago)  40h  10.244.1.5  worker-node1  <none>        <none>
health-care-6795d479d-4x14s        1/1    Running   0          27m  10.244.2.11  worker-node2  <none>        <none>
health-care-6795d479d-dcrfk        1/1    Running   0          27m  10.244.1.9   worker-node1  <none>        <none>
health-care-6795d479d-v9q8p        1/1    Running   0          27m  10.244.1.8   worker-node1  <none>        <none>
devopsadmin@kmaster-node:~$
```

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After deployment taking one of node ip address and run in the web browser <ip>:31030 port is shown in the above screen shot in which port it is running. Below are the provided medicure website and it is running.



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Pipeline Syntax: Snippet G | Instances | EC2 | ap-south-1 | Instances | EC2 | us-east-1 | health-care/kubernetesdeploy | Dashboard [Jenkins] | Medicure

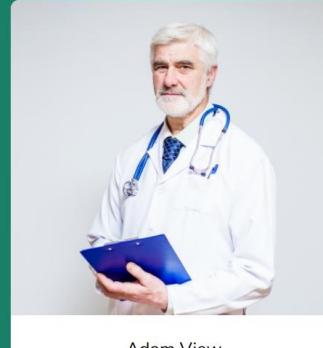
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Doctor



Adam View
Doctor



Mia Mike
Doctor

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Pipeline Syntax: Snippet G | Instances | EC2 | ap-south-1 | Instances | EC2 | us-east-1 | health-care/kubernetesdeploy | Dashboard [Jenkins] | Medicure

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This page can't load Google Maps correctly.

Do you own this website? OK

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Old City Hall Station

Horace Greeley Statue

City Hall Park

Mould Fountain

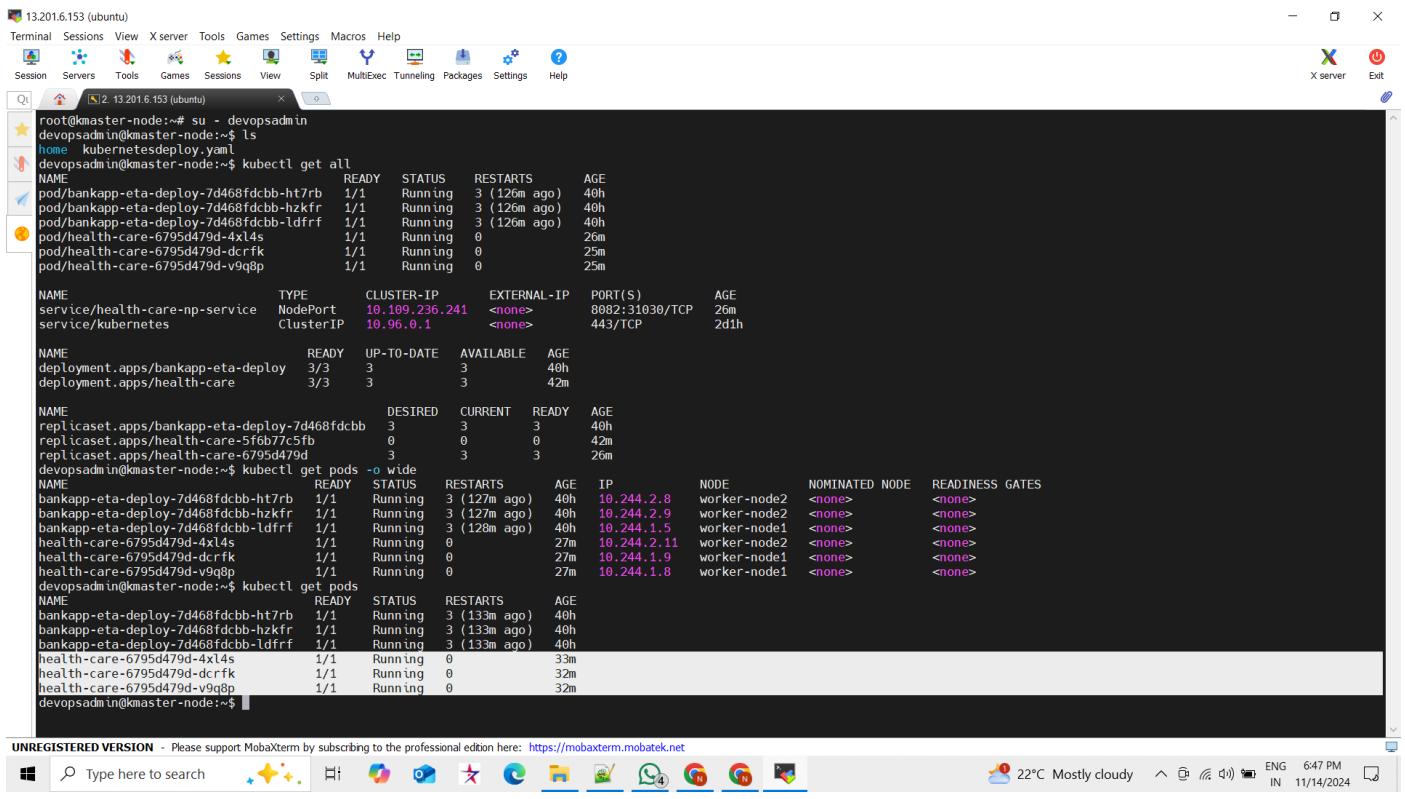
Centre Street

Park Row

Keyboard shortcuts | Map data ©2024 Google | Terms | Report a map error.

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Pods are showed below



```
13:2016.153 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
[2. 13:2016.153 (ubuntu)]
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ ls
home kubernetesdeploy.yaml
devopsadmin@kmaster-node:~$ kubectl get all
NAME                                     READY   STATUS    RESTARTS   AGE
pod/bankapp-eta-deploy-7d468fdccb-h7rb   1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-hzkfr  1/1    Running   3 (126m ago)  40h
pod/bankapp-eta-deploy-7d468fdccb-ldrrf  1/1    Running   3 (126m ago)  40h
pod/health-care-6795d479d-4x14s          1/1    Running   0          26m
pod/health-care-6795d479d-dcrfk          1/1    Running   0          25m
pod/health-care-6795d479d-v9q8p          1/1    Running   0          25m

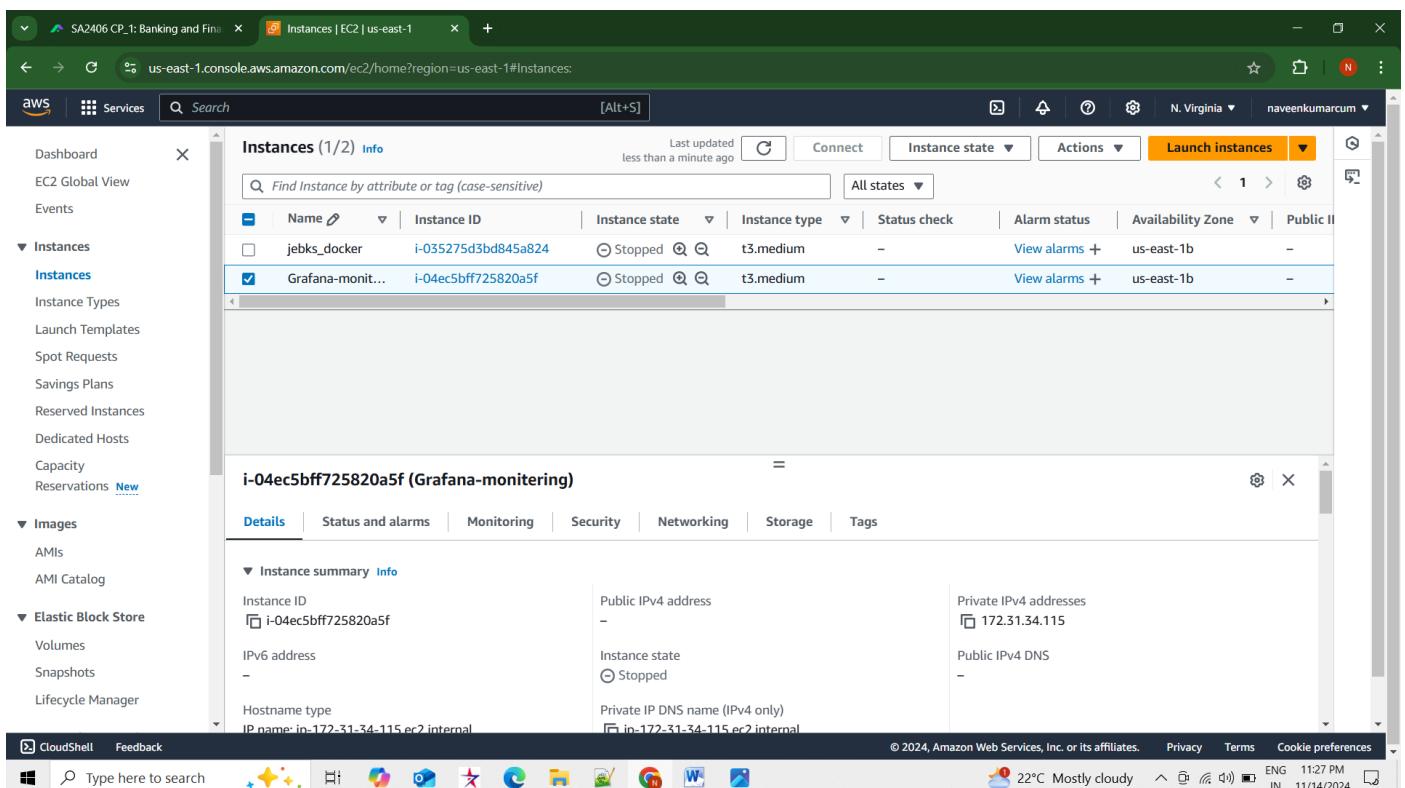
NAME           TYPE        CLUSTER-IP      EXTERNAL-IP     PORT(S)      AGE
service/health-care-np-service   NodePort   10.109.236.241 <none>       8082:31038/TCP  26m
service/kubernetes            ClusterIP  10.96.0.1      <none>       443/TCP     2d1h

NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/bankapp-eta-deploy   3/3     3           3           40h
deployment.apps/health-care        3/3     3           3           42m

NAME          DESIRED  CURRENT   READY   AGE
replicaset.apps/bankapp-eta-deploy-7d468fdccb  3      3       3   40h
replicaset.apps/health-care-5fb677c5fb        0      0       0   42m
replicaset.apps/health-care-6795d479d        3      3       3   26m
devopsadmin@kmaster-node:~$ kubectl get pods -o wide
NAME                                     READY   STATUS    RESTARTS   AGE   IP           NODE   NOMINATED NODE   READINESS GATES
bankapp-eta-deploy-7d468fdccb-h7rb   1/1    Running   3 (127m ago)  40h  10.244.2.8   worker-node2  <none>
bankapp-eta-deploy-7d468fdccb-hzkfr  1/1    Running   3 (127m ago)  40h  10.244.2.9   worker-node2  <none>
bankapp-eta-deploy-7d468fdccb-ldrrf  1/1    Running   3 (128m ago)  40h  10.244.1.5   worker-node1  <none>
health-care-6795d479d-4x14s          1/1    Running   0          27m  10.244.2.11  worker-node2  <none>
health-care-6795d479d-dcrfk          1/1    Running   0          27m  10.244.1.9   worker-node1  <none>
health-care-6795d479d-v9q8p          1/1    Running   0          27m  10.244.1.8   worker-node1  <none>
devopsadmin@kmaster-node:~$ kubectl get pods
NAME                                     READY   STATUS    RESTARTS   AGE
bankapp-eta-deploy-7d468fdccb-h7rb   1/1    Running   3 (13m ago)  40h
bankapp-eta-deploy-7d468fdccb-hzkfr  1/1    Running   3 (13m ago)  40h
bankapp-eta-deploy-7d468fdccb-ldrrf  1/1    Running   3 (13m ago)  40h
health-care-6795d479d-4x14s          1/1    Running   0          33m
health-care-6795d479d-dcrfk          1/1    Running   0          32m
health-care-6795d479d-v9q8p          1/1    Running   0          32m
devopsadmin@kmaster-node:~$
```

Created a new ec2 machine where grafana and prometheus are installed and configured as below.

Name as a grafanaPromi-minitering



The screenshot shows the AWS EC2 Instances page. There are two instances listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
jeks_docker	i-035275d3bd845a824	Stopped	t3.medium	-	View alarms +	us-east-1b	-
Grafana-monit...	i-04ec5bff725820a5f	Stopped	t3.medium	-	View alarms +	us-east-1b	-

Details for the Grafana-monit... instance:

Details	Status and alarms	Monitoring	Security	Networking	Storage	Tags	
i-04ec5bff725820a5f (Grafana-monitoring)							
Details Status and alarms Monitoring Security Networking Storage Tags							
Instance summary Info							
Instance ID	i-04ec5bff725820a5f	Public IPv4 address	Private IPv4 addresses 172.31.34.115				
IPv6 address	-	Instance state	Stopped	Public IPv4 DNS -			
Hostname type	IP name: ip-172-31-34-115.ec2.internal	Private IP DNS name (IPv4 only)	-				

```

root@ip-172-31-34-115:~# grafana --version
grafana: command not found
root@ip-172-31-34-115:~# sudo systemctl status prometheus
● prometheus.service - Prometheus Server
   Loaded: loaded (/etc/systemd/system/prometheus.service; disabled; preset: enabled)
     Active: inactive (dead)
       Docs: https://prometheus.io/docs/introduction/overview/
root@ip-172-31-34-115:~# systemctl enable prometheus
Created symlink /etc/systemd/system/multi-user.target.wants/prometheus.service → /etc/systemd/system/prometheus.service.
root@ip-172-31-34-115:~# sudo systemctl start prometheus
root@ip-172-31-34-115:~# sudo systemctl status prometheus
● prometheus.service - Prometheus Server
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
     Active: active (running) since Thu 2024-11-14 13:24:48 UTC; 19s ago
       Docs: https://prometheus.io/docs/introduction/overview/
      Main PID: 1685 (prometheus)
        Tasks: 8 (limit: 4586)
       Memory: 95.7M (peak: 97.2M)
          CPU: 488ms
         CGroup: /system.slice/prometheus.service
                 └─1685 /root/prometheus-3.0.0-rc.1.linux-amd64/prometheus --config.file=/root/prometheus-3.0.0-rc.1.linux-amd64/prometheus.yml

Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1486 msg="updated GOGC" old=100 new=75
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1496 msg="Completed loading of configuration file" db_storage=1.037µs remote_
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1225 msg="Server is ready to receive web requests."
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=manager.go:168 msg="Starting rule manager..." component="rule manager"
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.222Z level=INFO source=compact.go:580 msg="write block" component=tedb mint=1731513853129 maxt=17315208000000
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.225Z level=INFO source=head.go:1371 msg="Head GC completed" component=tedb caller=truncateMemory duration=2>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.289Z level=INFO source=compact.go:580 msg="write block" component=tedb mint=1731520813132 maxt=17315208000000
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.300Z level=INFO source=head.go:1371 msg="Head GC completed" component=tedb caller=truncateMemory duration=7>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.300Z level=INFO source=checkpoint.go:99 msg="Creating checkpoint" component=tedb from_segment=0 to_segment=2>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.310Z level=INFO source=head.go:1333 msg="WAL checkpoint complete" component=tedb first=0 last=2 duration=10>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.310Z level=INFO source=head.go:1333 msg="WAL checkpoint complete" component=tedb first=0 last=2 duration=10>

lines 1-21/21 (END)

```

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```

root@ip-172-31-34-115:~# /root/prometheus-3.0.0-rc.1.linux-amd64/prometheus --config.file=/root/prometheus-3.0.0-rc.1.linux-amd64/prometheus.yml
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1486 msg="updated GOGC" old=100 new=75
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1496 msg="Completed loading of configuration file" db_storage=1.037µs remote_
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:48.905Z level=INFO source=main.go:1225 msg="Server is ready to receive web requests."
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.222Z level=INFO source=manager.go:168 msg="Starting rule manager..." component="rule manager"
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.225Z level=INFO source=compact.go:580 msg="write block" component=tedb mint=1731513853129 maxt=17315208000000
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.289Z level=INFO source=compact.go:580 msg="write block" component=tedb mint=1731520813132 maxt=17315208000000
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.300Z level=INFO source=head.go:1371 msg="Head GC completed" component=tedb caller=truncateMemory duration=7>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.300Z level=INFO source=checkpoint.go:99 msg="Creating checkpoint" component=tedb from_segment=0 to_segment=2>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.310Z level=INFO source=head.go:1333 msg="WAL checkpoint complete" component=tedb first=0 last=2 duration=10>
Nov 14 13:24:48 ip-172-31-34-115 prometheus[1685]: time=2024-11-14T13:24:58.310Z level=INFO source=head.go:1333 msg="WAL checkpoint complete" component=tedb first=0 last=2 duration=10>

root@ip-172-31-34-115:~# sudo /bin/systemctl enable grafana-server.service
Synchronizing state of grafana-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable grafana-server
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service → /usr/lib/systemd/system/grafana-server.service.
root@ip-172-31-34-115:~# sudo /bin/systemctl start grafana-server.service
root@ip-172-31-34-115:~# sudo /bin/systemctl status grafana-server.service
● grafana-server.service - Grafana instance
   Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; enabled; preset: enabled)
     Active: active (running) since Thu 2024-11-14 13:26:21 UTC; 13s ago
       Docs: http://docs.grafana.org
      Main PID: 1933 (grafana)
        Tasks: 8 (limit: 4586)
       Memory: 202.4M (peak: 202.8M)
          CPU: 1.413s
         CGroup: /system.slice/grafana-server.service
                 └─1933 /usr/share/grafana/bin/grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana/grafana-server.pid --packaging=deb cfg=default.paths.logs=/var/log/grafana

Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=provisioning.dashboard t=2024-11-14T13:26:23.121741271Z level=info msg="starting to provision dashboards"
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=provisioning.dashboard t=2024-11-14T13:26:23.121788436Z level=info msg="finished to provision dashboards"
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=ngalert.multiorg.alertmanager t=2024-11-14T13:26:23.127651714Z level=info msg="Starting MultiOrg Alertmanager"
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=ngalert.scheduler t=2024-11-14T13:26:23.127722549Z level=info msg="Starting scheduler" tickInterval=10s maxAttempts=1
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=ticker t=2024-11-14T13:26:23.129426021Z level=info msg="starting first_tick=2024-11-14T13:26:30Z"
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=plugins.update.checker t=2024-11-14T13:26:23.244664659Z level=info msg="Update check succeeded" duration=118.338813ms
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=grafana.update.checker t=2024-11-14T13:26:23.709697799Z level=info msg="Update check succeeded" duration=124.954334ms
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=grafana-apiserver t=2024-11-14T13:26:23.709967799Z level=info msg="Adding GroupVersion featuretoggle.grafana.app v0alpha1 to ResourceManag...
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=grafana-apiserver t=2024-11-14T13:26:23.713819053Z level=info msg="Adding GroupVersion playlist.grafana.app v0alpha1 to ResourceManag...
Nov 14 13:26:23 ip-172-31-34-115 grafana[1933]: logger=grafana-apiserver t=2024-11-14T13:26:23.713847414Z level=info msg="Adding GroupVersion dashboard.grafana.app v0alpha1 to ResourceManag...

root@ip-172-31-34-115:~#

```

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After configure and run this in the port with ip port number of Prometheus is 9090.

The screenshot shows the Prometheus web interface. At the top, there are several tabs: Pipeline Syntax: Snippet, Instances | EC2 | ap-south-1, Instances | EC2 | us-east-1, Training_Documents/Monit, Prometheus Time Series, and Grafana. The main area has a search bar with placeholder text "Enter expression (press Shift+Enter for newlines)". Below the search bar are three buttons: "Table", "Graph", and "Explain". A "Query" button is highlighted in blue. On the right side of the interface, there are icons for brightness, sleep mode, user profile, and settings. The results section shows two queries: "up{instance='localhost:9090', job='prometheus'}" with a value of 1, and "up{instance='18.207.200.198:9100', job='prometheus'}" with a value of 0. The status bar at the bottom indicates "Load time: 1952ms" and "Result series: 2".



Login to grafana port number is 3000.

The screenshot shows the Grafana login page. The title bar displays the URL "54.80.86.244:3000/login". The main content is a dark-themed login form with a yellow and orange gear logo at the top. The text "Welcome to Grafana" is centered above the form. The form contains two input fields: "Email or username" and "Password", both with placeholder text. Below the password field is a "Log in" button. At the bottom of the form is a link "Forgot your password?". At the very bottom of the page, there is a footer with links to "Documentation", "Support", "Community", "Open Source", and "Grafana v11.3.0+security-01 (5ddc329279)". The bottom of the screen shows the same Windows taskbar as the previous screenshot.



In dash board of the grafana install the prometheus in the data source and add the needed credintials.

Welcome to Grafana

Basic

TUTORIAL
DATA SOURCE AND DASHBOARDS
Grafana fundamentals

Set up and understand Grafana if you have no prior experience. This tutorial guides you through the entire process and covers the "Data source" and "Dashboards" steps to the right.

COMPLETE
Add your first data source

COMPLETE
Create your first dashboard

Need help? Documentation Tutorials Community Public Slack

Remove this panel

Dashboards

Starred dashboards

Recently viewed dashboards

Latest from the blog

GrafanaCloud

```
node_exporter-1.4.0-rc.0.linux-amd64.tar.gz 100%[=====] 9.28M 22.0MB/s in 0.4s
2024-11-14 15:00:54 (22.0 MB/s) - 'node_exporter-1.4.0-rc.0.linux-amd64.tar.gz' saved [9735268/9735268]

root@kmaster-node:~# tar -zvxf node_exporter-1.4.0-rc.0.linux-amd64.tar.gz
node_exporter-1.4.0-rc.0.linux-amd64/
node_exporter-1.4.0-rc.0.linux-amd64/LICENSE
node_exporter-1.4.0-rc.0.linux-amd64/NOTICE
node_exporter-1.4.0-rc.0.linux-amd64/node_exporter
root@kmaster-node:~# ls
node_exporter-1.4.0-rc.0.linux-amd64  node_exporter-1.4.0-rc.0.linux-amd64.tar.gz  snap
root@kmaster-node:~# sudo vi /etc/systemd/system/node_exporter.service
root@kmaster-node:~# sudo systemctl status node_exporter
● node_exporter.service - Prometheus Server
    Loaded: loaded (/etc/systemd/system/node_exporter.service; disabled; vendor preset: enabled)
      Active: inactive (dead)
        Docs: https://prometheus.io/docs/introduction/overview/
root@kmaster-node:~# sudo systemctl start node_exporter
root@kmaster-node:~# sudo systemctl status node_exporter
● node_exporter.service - Prometheus Server
    Loaded: loaded (/etc/systemd/system/node_exporter.service; disabled; vendor preset: enabled)
      Active: active (running) since Thu 2024-11-14 15:02:17 UTC; 2s ago
        Docs: https://prometheus.io/docs/introduction/overview/
    Main PID: 62794 (node_exporter)
      Tasks: 4 (limit: 4676)
        Memory: 2.4M
          CPU: 9ms
        CGroup: /system.slice/node_exporter.service
           └─62794 /root/node_exporter-1.4.0-rc.0.linux-amd64/node_exporter

Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.028Z caller=node_exporter.go:115 level=info collector=thermal_zone
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.028Z caller=node_exporter.go:115 level=info collector=time
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:115 level=info collector=timex
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:115 level=info collector=uname
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:115 level=info collector=vmstat
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:115 level=info collector=xfs
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:115 level=info collector=zfs
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=node_exporter.go:199 level=info msg="Listening on" address=:9100
Nov 14 15:02:17 kmaster-node node_exporter[62794]: ts=2024-11-14T15:02:17.029Z caller=tls_config.go:195 level=info msg="TLS is disabled." http2=false
root@kmaster-node:~#
```

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Restart and runned. Node port is installed in the target ec2 machines like kuber master slave1,2 to moniter the dick space and other things described below .

```
13.233.143.249 (ubuntu)
Terminal Session View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
[4 54 80 86.244 (ubuntu)] [3 13.201.6.153 (ubuntu)] [4 13.233.143.249 (ubuntu)]
node_exporter-1.4.0-rc.0.linux-amd64.tar.gz 100%[=====>]
2024-11-14 15:18:17 (51.2 MB/s) - 'node_exporter-1.4.0-rc.0.linux-amd64.tar.gz' saved [9735268/9735268]

root@worker-node1:~# tar -zxf node_exporter-1.4.0-rc.0.linux-amd64.tar.gz
node_exporter-1.4.0-rc.0.linux-amd64/
node_exporter-1.4.0-rc.0.linux-amd64/LICENSE
node_exporter-1.4.0-rc.0.linux-amd64/NOTICE
node_exporter-1.4.0-rc.0.linux-amd64/node_exporter
root@worker-node1:~# sudo vi /etc/systemd/system/node_exporter.service
root@worker-node1:~# sudo systemctl daemon-reload
root@worker-node1:~# sudo systemctl start node_exporter
root@worker-node1:~# sudo systemctl status node_exporter
● node_exporter.service - Prometheus Server
   Loaded: loaded (/etc/systemd/system/node_exporter.service; disabled; vendor preset: enabled)
     Active: active (running) since Thu 2024-11-14 15:19:48 UTC; 14s ago
       Docs: https://prometheus.io/docs/introduction/overview/
 Main PID: 65657 (node_exporter)
    Tasks: 4 (limit: 4676)
   Memory: 2.4M
      CPU: 6ms
     CGroup: /system.slice/node_exporter.service
             └─65657 /root/node_exporter-1.4.0-rc.0.linux-amd64/node_exporter

Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.383Z caller=node_exporter.go:115 level=info collector=thermal_zone
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.383Z caller=node_exporter.go:115 level=info collector=time
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:115 level=info collector=timex
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:115 level=info collector=udp_queues
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:115 level=info collector=uname
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:115 level=info collector=vmstat
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:115 level=info collector=xfs
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=node_exporter.go:199 level=info msg="listening on" address=:9100
Nov 14 15:19:48 worker-node1 node_exporter[65657]: ts=2024-11-14T15:19:48.384Z caller=tls_config.go:195 level=info msg="TLS is disabled." http2=false
root@worker-node1:~#
```

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In Prometheus.yaml file add the target port id with their ip

54.80.86.244 (ubuntu)

Terminal Session View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

```
# my global config
global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds. Default is every 1 minute.
  evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).

# Alertmanager configuration
alerting:
  alertmanagers:
    - static_configs:
      - targets:
        - alertmanager:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  - "first_rules.yml"
  - "second_rules.yml"

# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
  # The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.
  - job_name: "prometheus"

    # metrics_path defaults to '/metrics'
    # scheme defaults to 'http'.

    static_configs:
      - targets: ["localhost:9100"]
      - targets: ["13.201.6.153:9100"]
      - targets: ["13.233.143.249:9100"]
      - targets: ["15.206.68.223:9100"]
```

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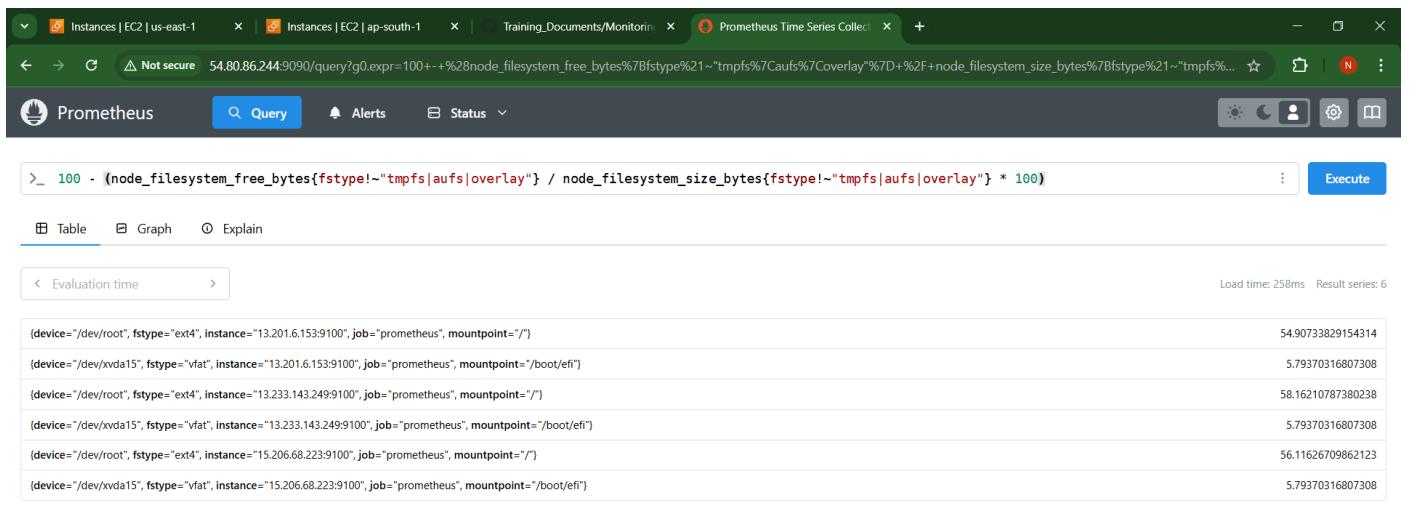
```

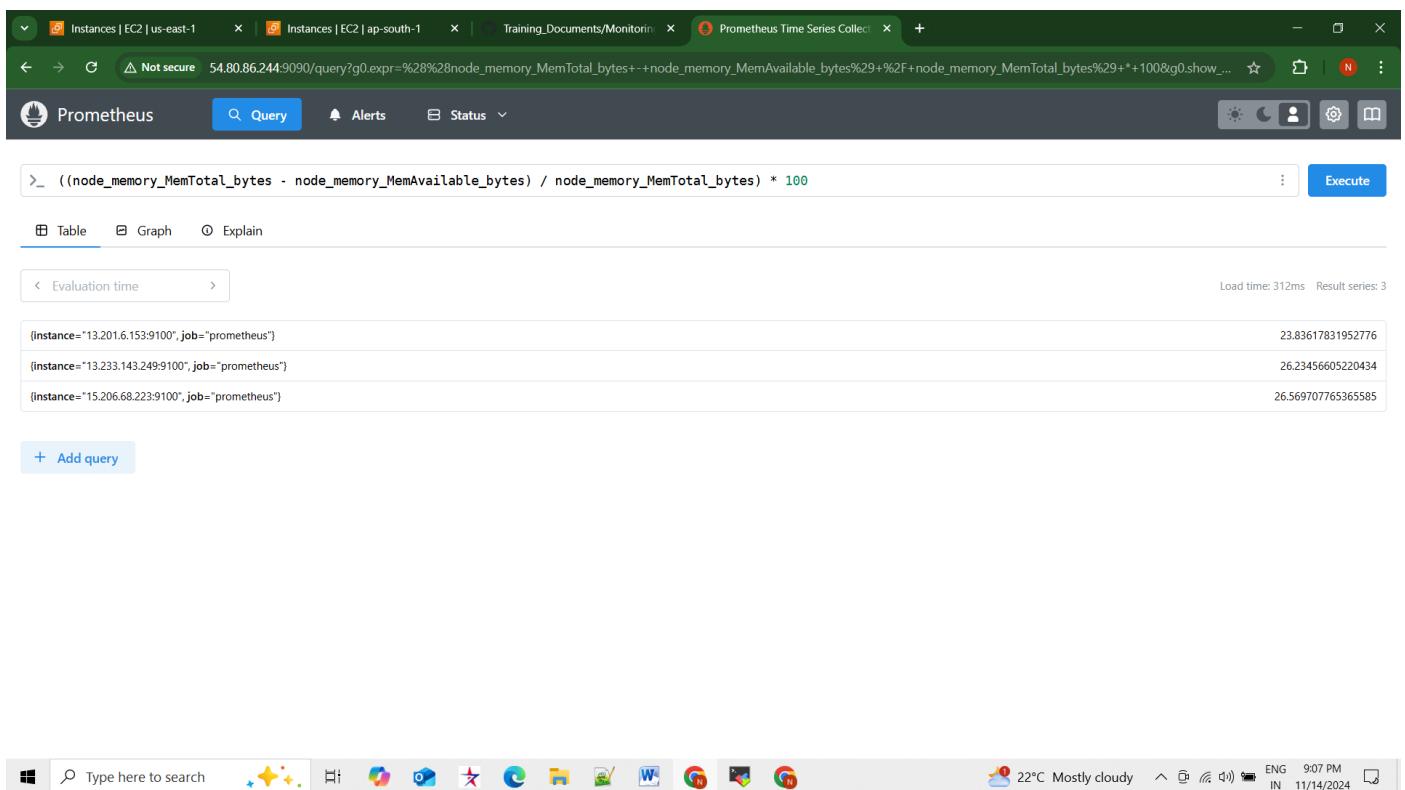
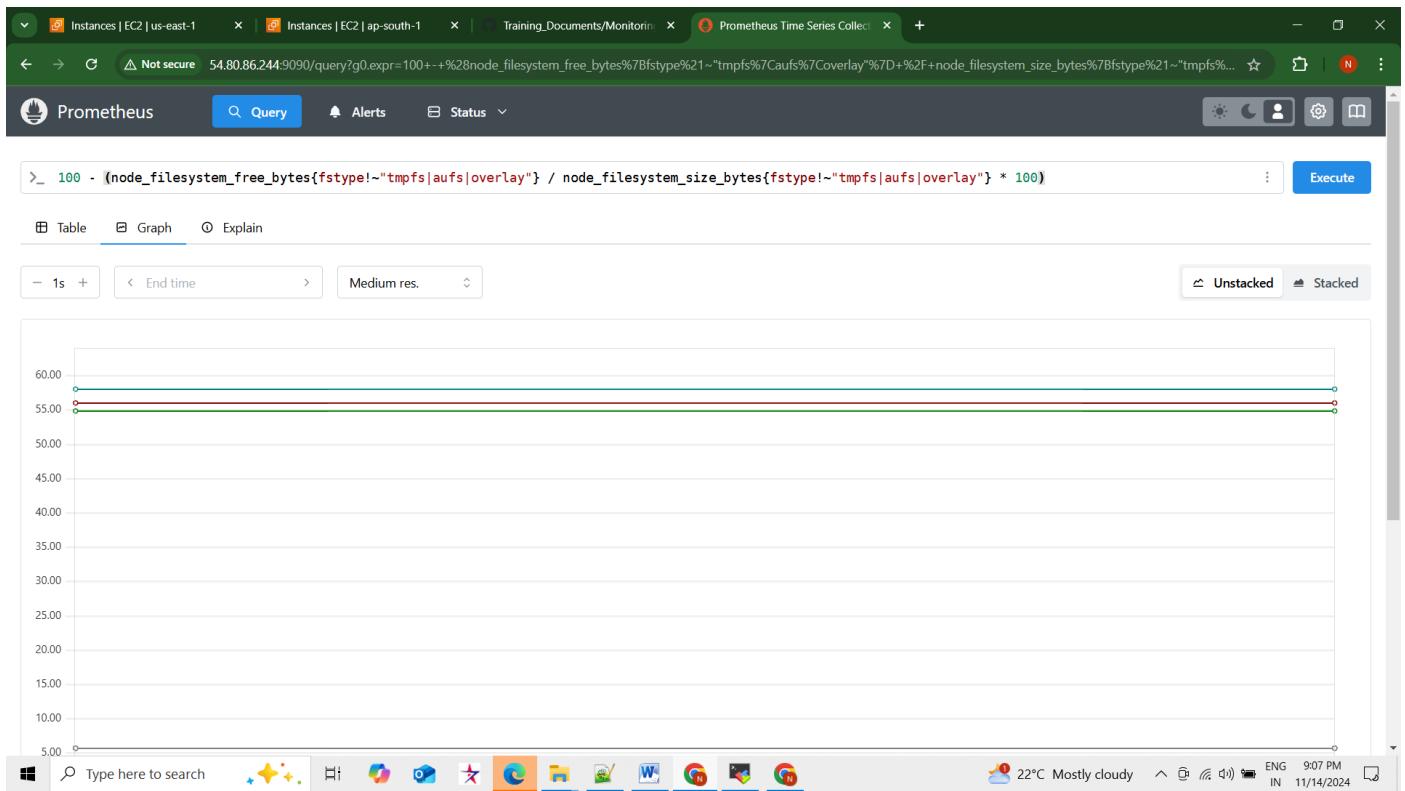
root@ip-172-31-34-115:/# ./prometheus -3.0.0-rc.1.linux-amd64# ls
LICENSE NOTICE prometheus prometheus.yml promtool
root@ip-172-31-34-115:/# vi prometheus.yml
root@ip-172-31-34-115:/# sudo systemctl restart prometheus
root@ip-172-31-34-115:/# sudo systemctl status prometheus
● prometheus.service - Prometheus Server
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
     Active: active (running) since Thu 2024-11-14 15:30:47 UTC; 7s ago
       Docs: https://prometheus.io/docs/introduction/overview/
      Main PID: 3008 (prometheus)
        Tasks: 8 (limit: 4586)
       Memory: 32.1M (peak: 32.4M)
          CPU: 291ms
         CGroup: /system.slice/prometheus.service
                  └─3008 /root/prometheus-3.0.0-rc.1.linux-amd64/prometheus --config.file=/root/prometheus-3.0.0-rc.1.linux-amd64/prometheus.yml

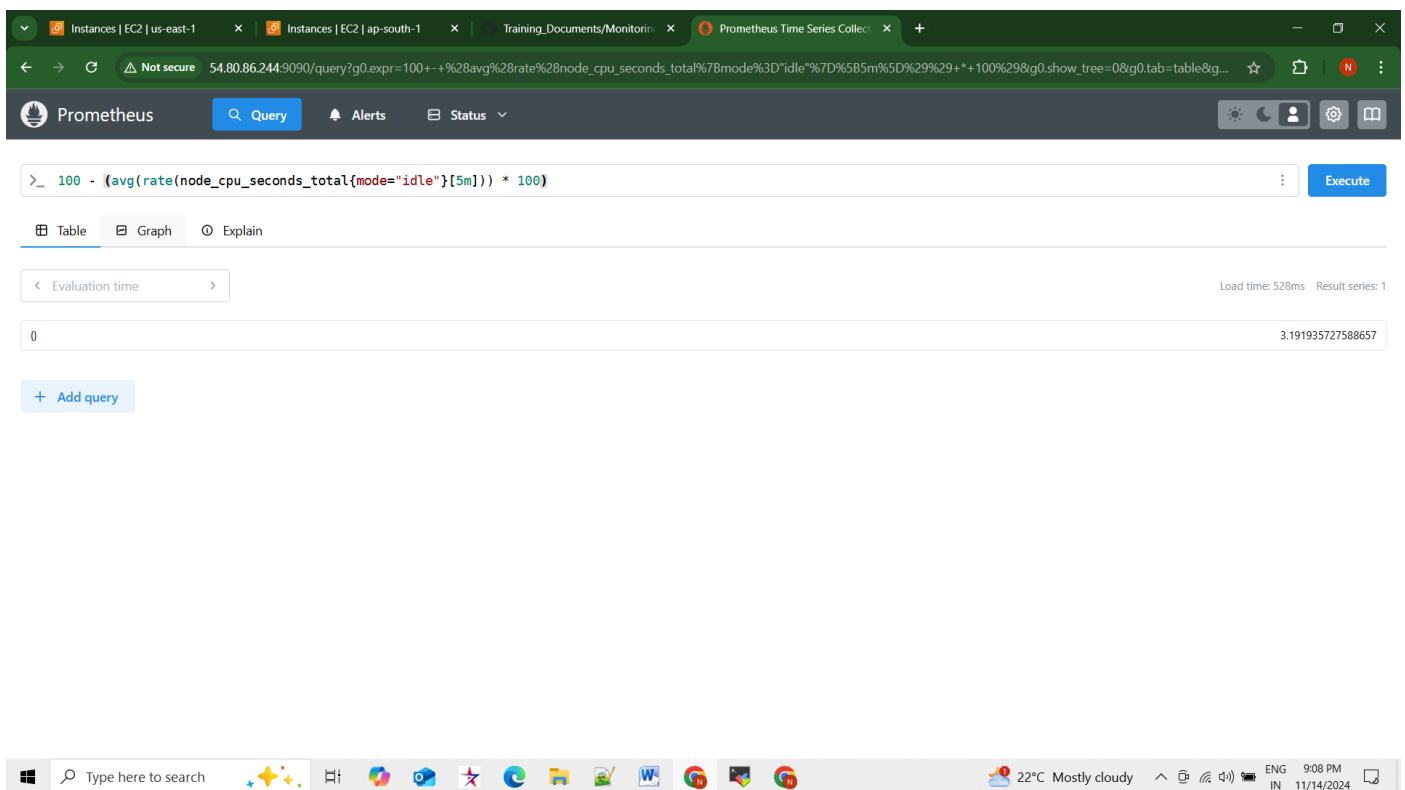
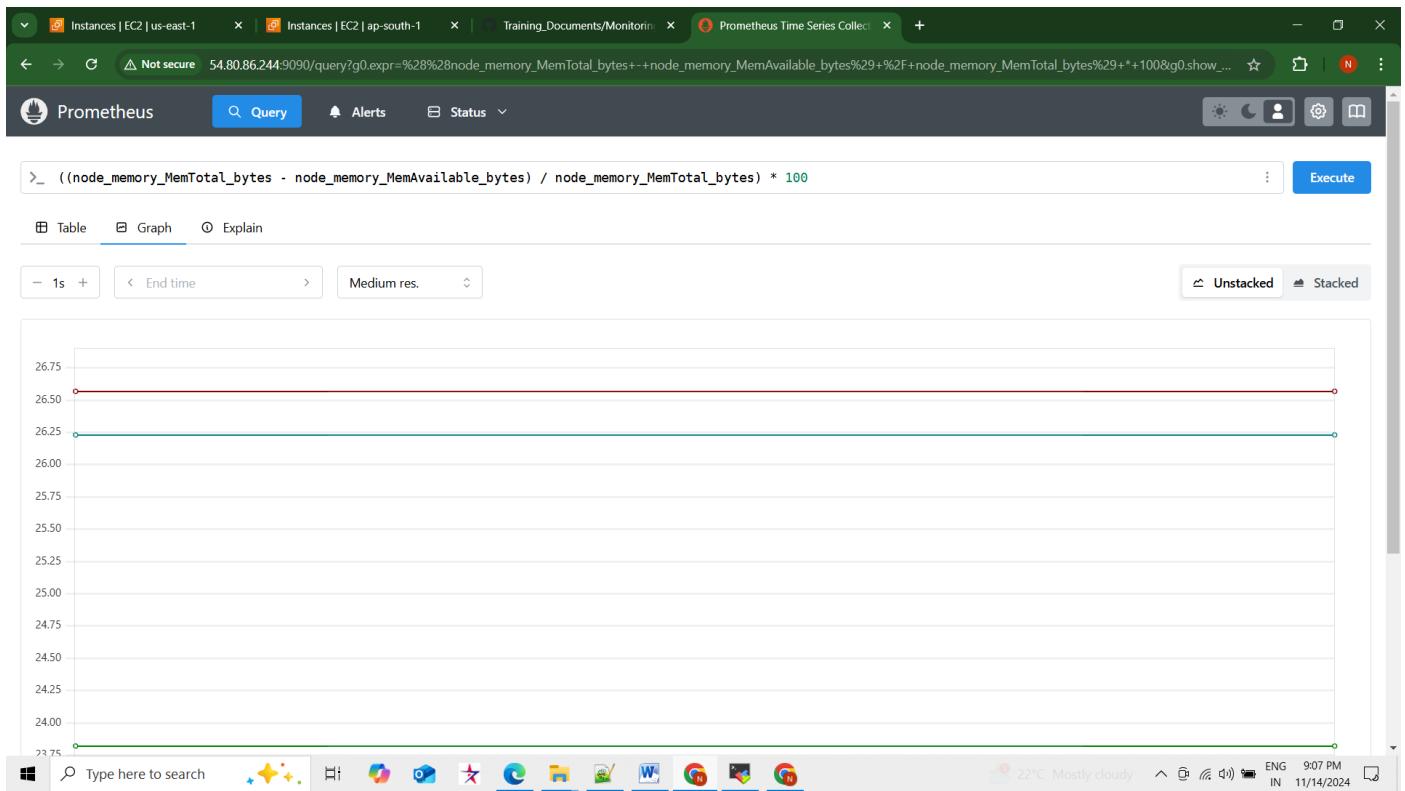
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.501Z level=INFO source=main.go:1264 msg="TSDB started"
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.502Z level=INFO source=main.go:1447 msg="Loading configuration file" filename=/root/prometheus-3.0.0-rc.1.linux-amd64/prometheus.yml
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.505Z level=INFO source=main.go:1486 msg="updated GOGC" old=100 new=75
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.505Z level=INFO source=main.go:1496 msg="Completed loading of configuration file" db_storage=1.312μs remote="http://127.0.0.1:9090"
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.505Z level=INFO source=main.go:1225 msg="Server is ready to receive web requests."
Nov 14 15:30:47 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:47.505Z level=INFO source=manager.go:168 msg="Starting rule manager..." component="rule manager"
Nov 14 15:30:52 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:52.784Z level=INFO source=compact.go:571 msg="write block resulted in empty block" component=tsdb mint=173152865s max=173152865s
Nov 14 15:30:52 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:52.790Z level=INFO source=head.go:1371 msg="Head GC completed" component=tsdb caller=truncateMemory duration=5.72ms
Nov 14 15:30:52 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:52.791Z level=INFO source=checkpoint.go:99 msg="Creating checkpoint" component=tsdb from_segment=10 to segments=11
Nov 14 15:30:52 ip-172-31-34-115 prometheus[3008]: time=2024-11-14T15:30:52.836Z level=INFO source=head.go:1333 msg="WAL checkpoint complete" component=tsdb first=10 last=11 duration=4.72ms
root@ip-172-31-34-115:/# vi prometheus.yml
root@ip-172-31-34-115:/#

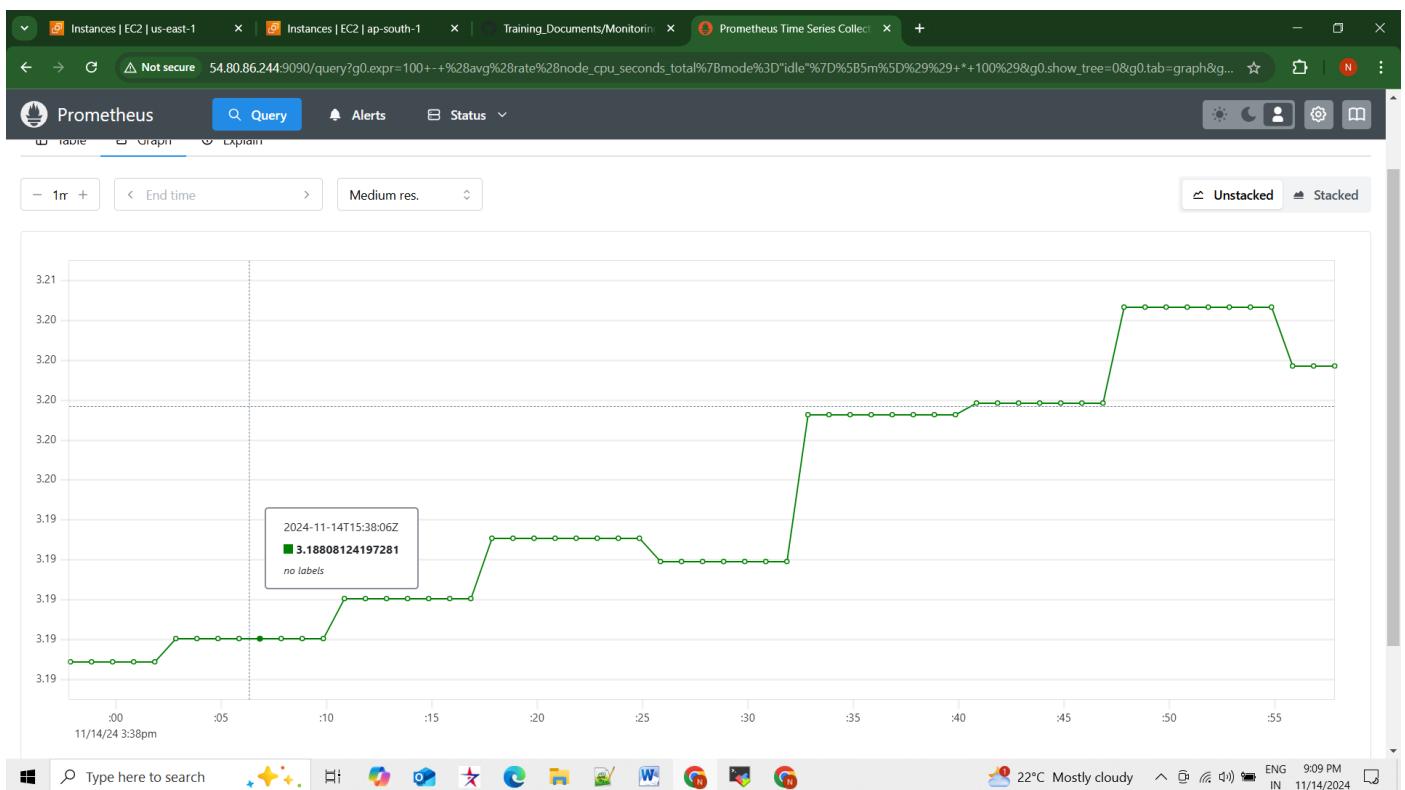
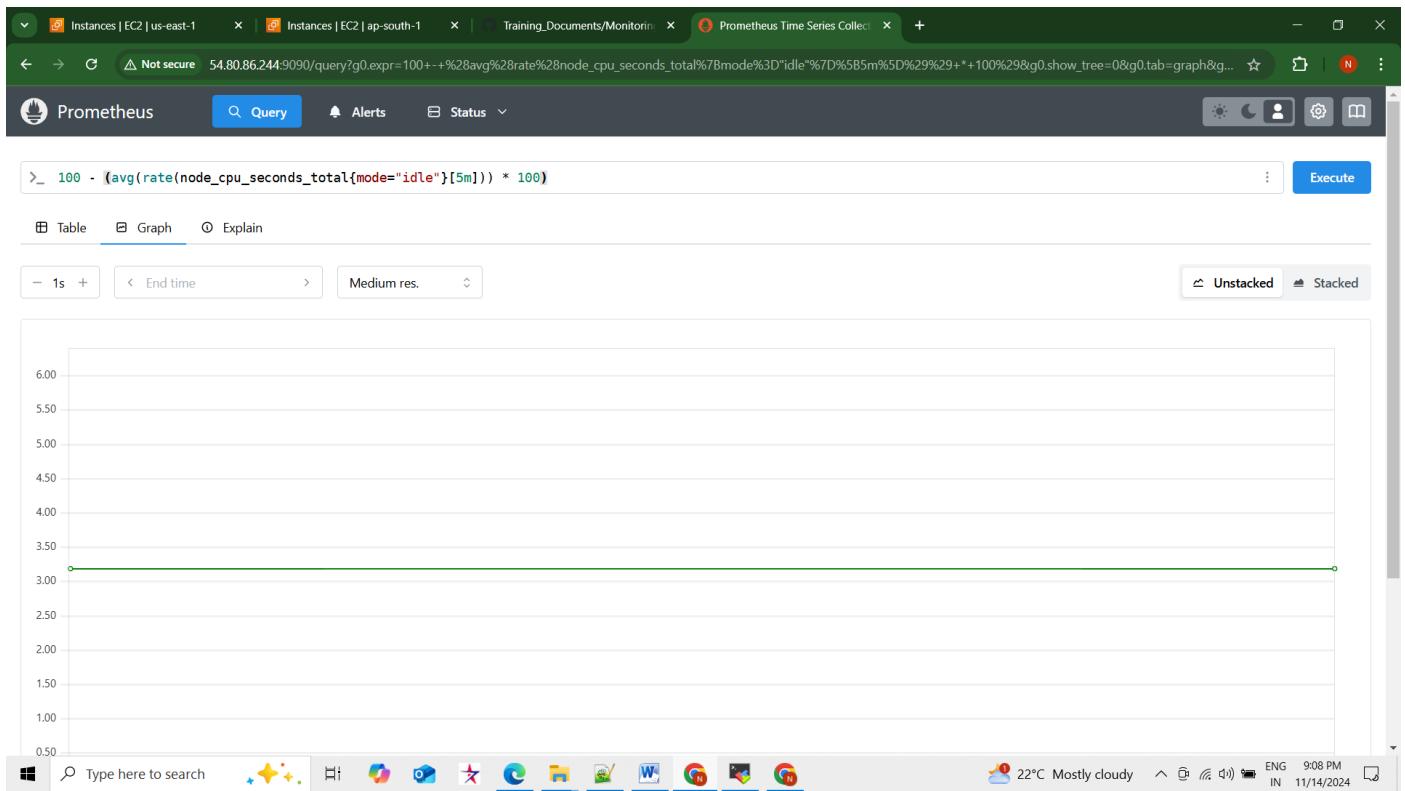
```

Below screen shots shows the disk utilization , memory , cpu utilization .

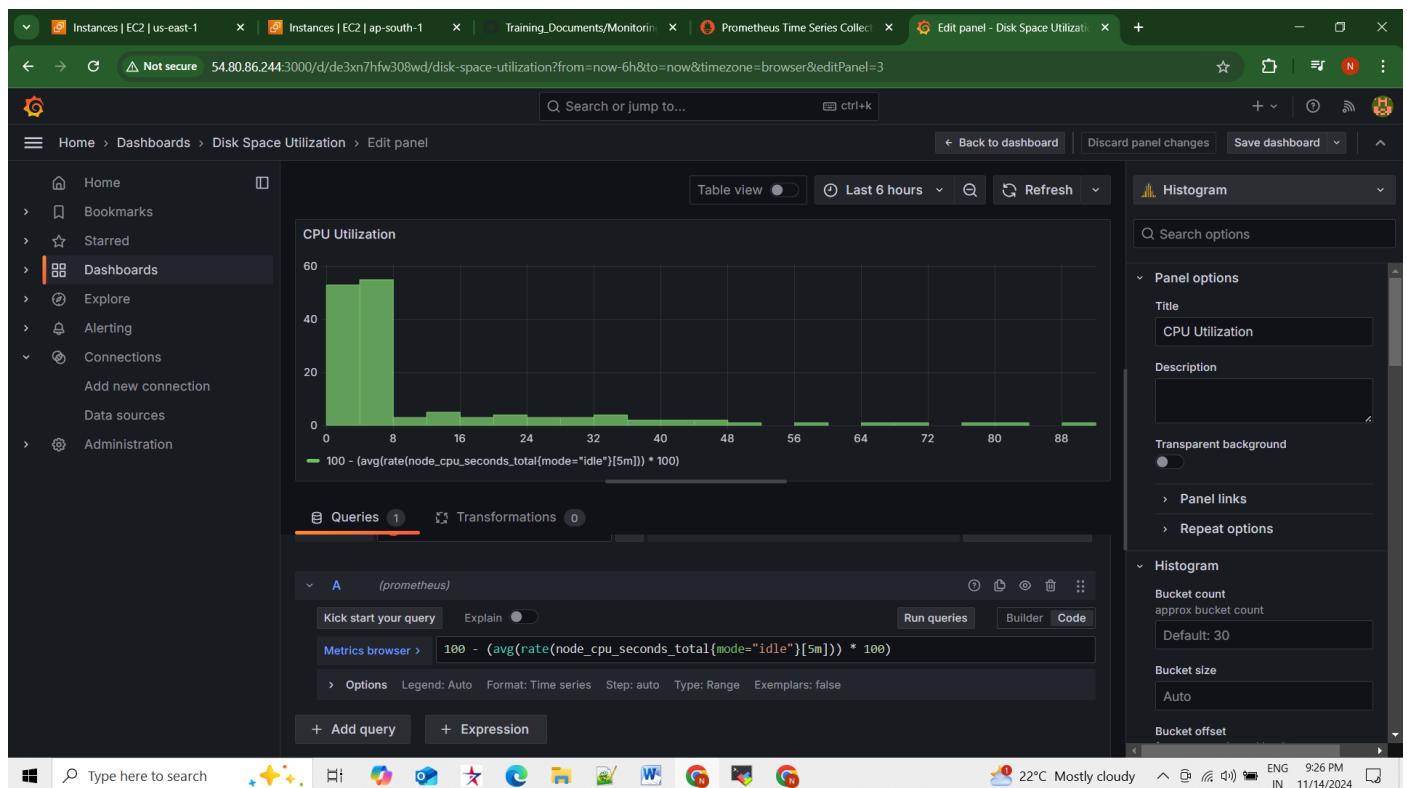
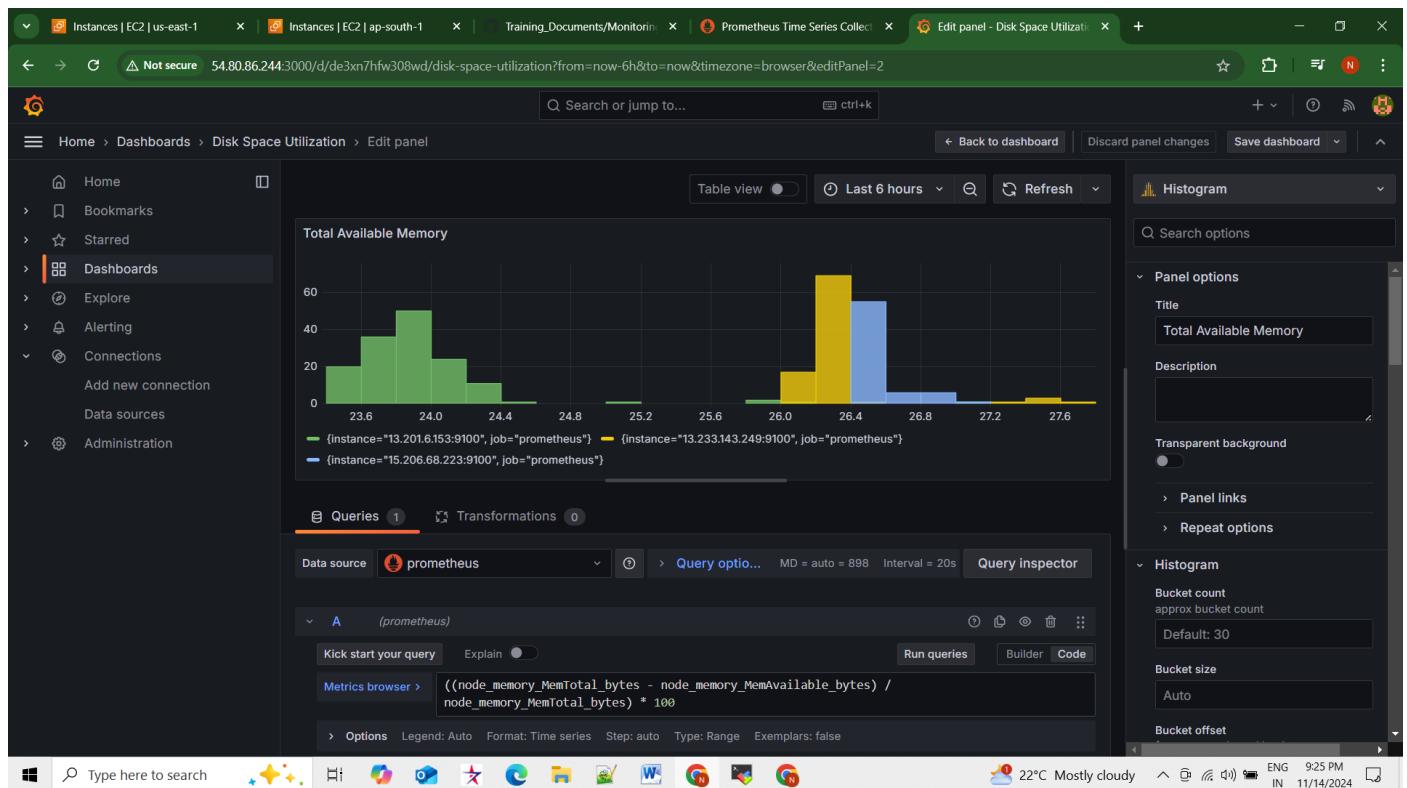








When we loged to grafana I created the dash board and chosen data source as Prometheus and in code we written the query to shows the disk utilization , memory , cpu utilization. And saved we can moniter them .



Screenshot of the Grafana interface showing the 'Disk Space Utilization' dashboard being edited.

Left Sidebar:

- Home
- Bookmarks
- Starred
- Dashboards** (selected)
- Explore
- Alerting
- Connections
 - Add new connection
- Data sources
- Administration

Top Bar:

- Instances | EC2 | us-east-1
- Instances | EC2 | ap-south-1
- Training_Documents/Monitorin...
- Prometheus Time Series Collector
- Edit panel - Disk Space Utilizati...

Panel Options:

- Title: Disk Space Utilization
- Description:
- Transparent background:
- Panel links:
- Repeat options:
- Histogram
 - Bucket count: approx bucket count
 - Default: 30
 - Bucket size: Auto
 - Bucket offset:

Panel Content:

Disk Space Utilization: A stacked bar chart showing disk space utilization across three devices. The Y-axis ranges from 0 to 150, and the X-axis shows device IDs (4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60). The legend indicates three series: green (device="/dev/root", ftype="ext4", instance="13.201.6.153:9100", job="prometheus", mountpoint="/"), yellow (device="/dev/root", ftype="ext4", instance="13.233.143.249:9100", job="prometheus", mountpoint="/"), and blue (device="/dev/root", ftype="ext4", instance="15.206.68.223:9100", job="prometheus", mountpoint="/").

Queries:

```
Metrics browser > 100 - (node_filesystem_free_bytes{ftype!="tmpfs|aufs|overlay"}) / node_filesystem_size_bytes{ftype!="tmpfs|aufs|overlay"} * 100
```

Transformations:

Bottom:

- Type here to search
- Windows Start button
- System tray: 22°C Mostly cloudy, ENG IN 9:29 PM, 11/14/2024

Final view of the ministering the servers in grafana.

Screenshot of the Grafana interface showing the 'Disk Space Utilization' dashboard in its final state.

Left Sidebar:

- Home
- Bookmarks
- Starred
- Dashboards** (selected)
- Explore
- Alerting
- Connections
 - Add new connection
- Data sources
- Administration

Top Bar:

- Instances | EC2 | us-east-1
- Instances | EC2 | ap-south-1
- Training_Documents/Monitorin...
- Prometheus Time Series Collector
- Disk Space Utilization - Dashboard

Panel Options:

- Add
- Settings
- Exit edit
- Save dashboard
- Last 6 hours
- Refresh

Panel Content:

Disk Space Utilization: Stacked bar chart showing disk space utilization across three devices. The Y-axis ranges from 0 to 150, and the X-axis shows device IDs (4, 8, 16, 22, 28, 34, 40, 46, 52, 58). The legend indicates three series: green (device="/dev/root", ftype="ext4", instance="13.201.6.153:9100", job="prometheus", mountpoint="/"), yellow (device="/dev/root", ftype="ext4", instance="13.233.143.249:9100", job="prometheus", mountpoint="/"), and blue (device="/dev/root", ftype="ext4", instance="15.206.68.223:9100", job="prometheus", mountpoint="/").

Total Available Memory: Histogram showing total available memory across three instances. The Y-axis ranges from 0 to 60, and the X-axis shows memory values (23.6, 24.0, 24.4, 24.8, 25.6, 26.0, 26.4, 26.8, 27.2, 27.6). The legend indicates three series: green (instance="13.201.6.153:9100", job="prometheus"), yellow (instance="13.233.143.249:9100", job="prometheus"), and blue (instance="15.206.68.223:9100", job="prometheus").

CPU Utilization: Bar chart showing CPU utilization across three instances. The Y-axis ranges from 0 to 50, and the X-axis shows CPU utilization values (0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88). The legend indicates three series: green (instance="13.201.6.153:9100", job="prometheus"), yellow (instance="13.233.143.249:9100", job="prometheus"), and blue (instance="15.206.68.223:9100", job="prometheus").

Bottom:

- Type here to search
- Windows Start button
- System tray: 22°C Mostly cloudy, ENG IN 9:30 PM, 11/14/2024

Below screen shots shows that how I configured the all ec2 machines/servers and installed versions ,tools and also the required components for this project.

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22°C Mostly cloudy ENG 9:36 PM IN 11/14/2024

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

22°C Mostly cloudy ENG 10:02 PM IN 11/14/2024

```
kubelet.service - kubelet: The Kubernetes Node Agent
  Loaded: loaded (/lib/systemd/system/kubelet.service; enabled; vendor preset: enabled)
  Drop-In: /usr/lib/systemd/system/kubelet.service.d
            └─10-kubeadm.conf
    Active: active (running) since Thu 2024-11-14 11:04:11 UTC; 5h 27min ago
      Docs: https://kubernetes.io/docs/
   Main PID: 1042 (kubelet)
     Tasks: 14 (limit: 4676)
    Memory: 47.6M
       CPU: 5min 9.399s
      CGroup: /system.slice/kubelet.service
              └─1042 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kub

Nov 14 11:04:19 kmaster-node kubelet[1042]: E1114 11:04:19.824598          1042 pod_workers.go:1298] "Error syncing pod, skipping" err="f>
Nov 14 11:04:19 kmaster-node kubelet[1042]: E1114 11:04:19.832325          1042 remote_runtime.go:193] "RunPodSandbox from runtime servic>
Nov 14 11:04:19 kmaster-node kubelet[1042]: E1114 11:04:19.832386          1042 kuberuntime_sandbox.go:72] "Failed to create sandbox for >
Nov 14 11:04:19 kmaster-node kubelet[1042]: E1114 11:04:19.832411          1042 kuberuntime_manager.go:1184] "CreatePodSandbox for pod fa>
Nov 14 11:04:19 kmaster-node kubelet[1042]: E1114 11:04:19.832470          1042 pod_workers.go:1298] "Error syncing pod, skipping" err="f>
Nov 14 11:04:20 kmaster-node kubelet[1042]: E1114 11:04:20.555264          1042 remote_runtime.go:193] "RunPodSandbox from runtime servic>
Nov 14 11:04:20 kmaster-node kubelet[1042]: E1114 11:04:20.555318          1042 kuberuntime_sandbox.go:72] "Failed to create sandbox for >
Nov 14 11:04:20 kmaster-node kubelet[1042]: E1114 11:04:20.555347          1042 kuberuntime_manager.go:1184] "CreatePodSandbox for pod fa>
Nov 14 11:04:20 kmaster-node kubelet[1042]: E1114 11:04:20.555407          1042 pod_workers.go:1298] "Error syncing pod, skipping" err="f>
Nov 14 11:04:21 kmaster-node kubelet[1042]: E1114 11:04:21.500446          1042 scope.go:117] "RemoveContainer" containerID="04882b2b7546"

root@kmaster-node:~# kubectl get pods -n kube-system -o wide | grep kube-proxy
kube-proxy-97cll           1/1     Running   7 (5h27m ago)   2d4h   172.31.47.5   worker-node2   <none>        <none>
>
kube-proxy-f5xtj            1/1     Running   8 (5h27m ago)   2d4h   172.31.37.67  kmaster-node   <none>        <none>
>
kube-proxy-gmm6j            1/1     Running   7 (5h28m ago)   2d4h   172.31.37.38  worker-node1   <none>        <none>
>
root@kmaster-node:~#
```

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```
root@kmaster-node:~# java --version
Command 'java' not found, but can be installed with:
apt install default-jre          # version 2:1.11-72build2, or
apt install openjdk-11-jre-headless # version 11.0.24+8-1ubuntu3~22.04
apt install openjdk-17-jre-headless # version 17.0.12+7-1ubuntu2~22.04
apt install openjdk-18-jre-headless # version 18.0.2+9-2~22.04
apt install openjdk-19-jre-headless # version 19.0.2+7-0ubuntu3~22.04
apt install openjdk-21-jre-headless # version 21.0.4+7-1ubuntu2~22.04
apt install openjdk-8-jre-headless # version 8u422-b05-1~22.04
root@kmaster-node:~# docker --version
Docker version 27.3.1, build ce12230
root@kmaster-node:~# git --version
git version 2.34.1
root@kmaster-node:~# clear
```

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13.201.6.153 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

11. 13.201.6.153 (ubuntu) 7. 13.233.143.249 (ubuntu) 6. 15.206.68.223 (ubuntu) 9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)

```
root@kmaster-node:~# su - devopsadmin
devopsadmin@kmaster-node:~$ ls
home kubernetesdeploy.yaml
devopsadmin@kmaster-node:~$ ll
total 48
drwxr-x--- 6 devopsadmin devopsadmin 4096 Nov 14 12:28 .
drwxr-xr-x 4 root      root     4096 Nov 12 13:24 ..
-rw----- 1 devopsadmin devopsadmin 1270 Nov 14 14:59 .bash_history
-rw-r--r-- 1 devopsadmin devopsadmin 220 Jan  6 2022 .bash_logout
-rw-r--r-- 1 devopsadmin devopsadmin 3771 Jan  6 2022 .bashrc
drwxr--r-- 2 devopsadmin devopsadmin 4096 Nov 12 17:29 .cache/
drwxrwxr-x 3 devopsadmin devopsadmin 4096 Nov 12 13:38 .kube/
-rw-r--r-- 1 devopsadmin devopsadmin 807 Jan  6 2022 .profile
drwxr----- 2 devopsadmin devopsadmin 4096 Nov 12 13:27 .ssh/
-rw-r--r-- 1 devopsadmin devopsadmin 1042 Nov 12 20:30 .viminfo
drwxrwxr-x 3 devopsadmin devopsadmin 4096 Nov 12 17:54 home/
-rw-rw-r-- 1 devopsadmin devopsadmin 610 Nov 14 12:44 kubernetesdeploy.yaml
devopsadmin@kmaster-node:~$ cd .ssh
devopsadmin@kmaster-node:~/._ssh$ ls
authorized_keys id_ecdsa id_ecdsa.pub
devopsadmin@kmaster-node:~/._ssh$
```

13.233.143.249 (ubuntu)

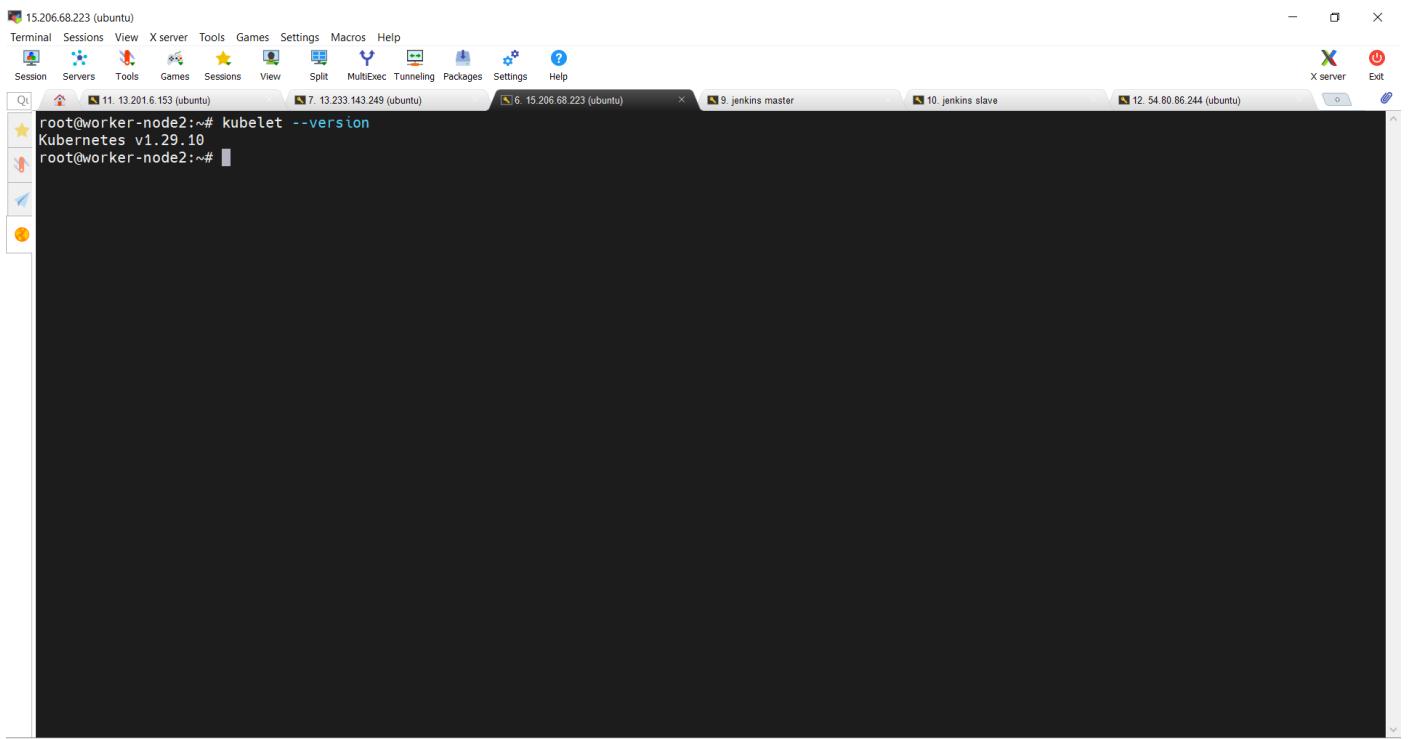
Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

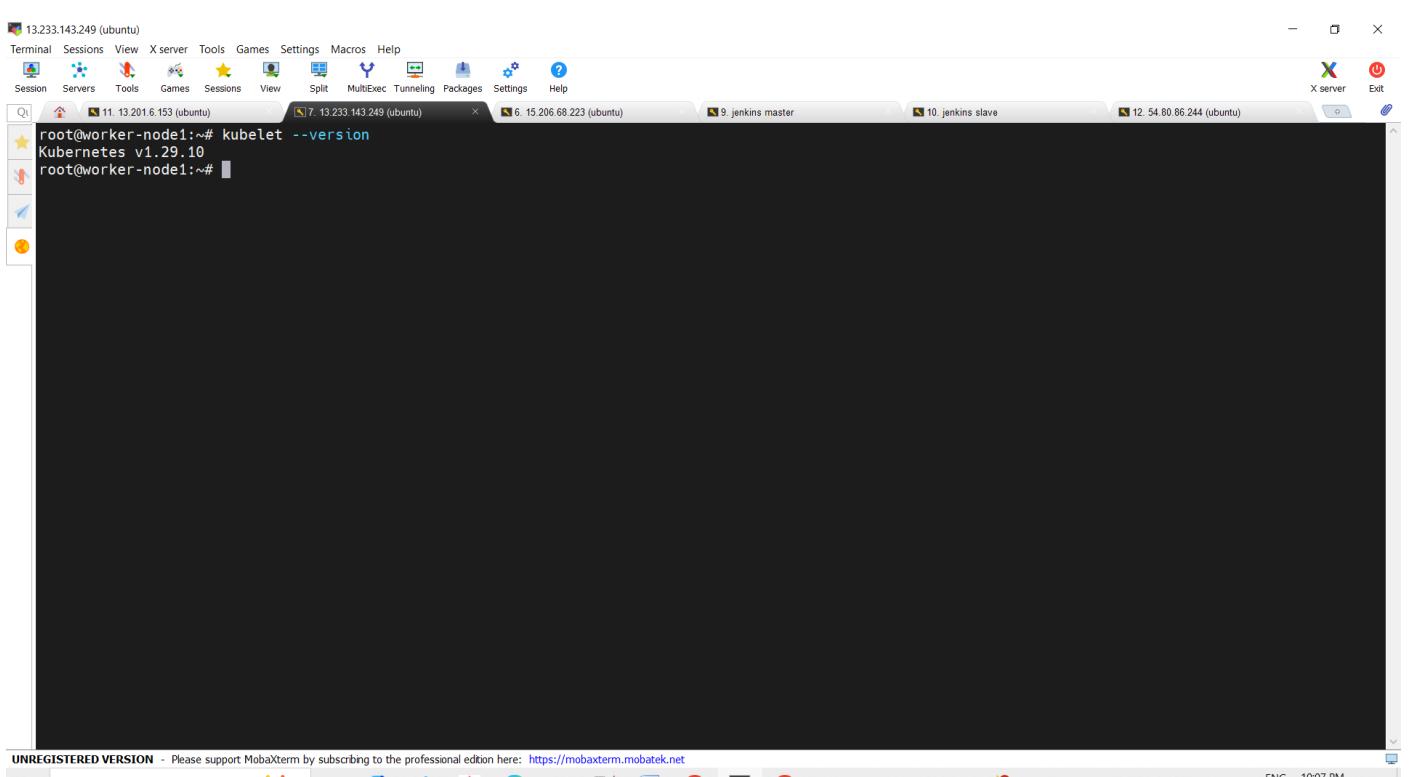
X server Exit

11. 13.201.6.153 (ubuntu) 7. 13.233.143.249 (ubuntu) 6. 15.206.68.223 (ubuntu) 9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)

```
root@worker-node1:~# kubeadm --version
unknown flag: --version
To see the stack trace of this error execute with --v=5 or higher
root@worker-node1:~# kubeadm version
kubeadm version: &version.Info{Major:"1", Minor:"29", GitVersion:"v1.29.10", GitCommit:"f0c1ea863533246b6d3fd3e6addb7c13c8a6359", GitTreeState:"clean", BuildDate:"2024-10-22T20:34:11Z", GoVersion:"go1.22.8", Compiler:"gc", Platform:"linux/amd64"}
root@worker-node1:~#
```



```
root@worker-node2:~# kublet --version
Kubernetes v1.29.10
root@worker-node2:~#
```



```
root@worker-node1:~# kublet --version
Kubernetes v1.29.10
root@worker-node1:~#
```

```
13.233.143.249 (ubuntu)
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
11. 13.201.6.153 (ubuntu) 7. 13.233.143.249 (ubuntu) 6. 15.206.68.223 (ubuntu) 9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)
root@worker-node1:~# ll
total 9552
drwx----- 5 root root 4096 Nov 14 15:20 .
drwxr-xr-x 19 root root 4096 Nov 14 11:03 ../
-rw----- 1 root root 2143 Nov 14 15:25 .bash_history
-rw-r--r-- 1 root root 3106 Oct 15 2021 .bashrc
-rw-r--r-- 1 root root 20 Nov 14 15:20 .lesshst
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
drwx----- 2 root root 4096 Nov 12 11:06 .ssh/
-rw-r--r-- 1 root root 0 Nov 12 11:16 .sudo_as_admin_successful
-rw----- 1 root root 1564 Nov 14 15:19 .viminfo
-rw-r--r-- 1 root root 165 Nov 14 15:18 .wget-hsts
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64/
-rw-r--r-- 1 root root 9735268 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64.tar.gz
drwx----- 4 root root 4096 Nov 12 11:06 snap/
root@worker-node1:~# cd node_exporter-1.4.0-rc.0.linux-amd64
root@worker-node1:~/node_exporter-1.4.0-rc.0.linux-amd64# ll
total 18604
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 .
drwx----- 5 root root 4096 Nov 14 15:20 ../
-rw-r--r-- 1 3434 3434 11357 Jul 27 2022 LICENSE
-rw-r--r-- 1 3434 3434 463 Jul 27 2022 NOTICE
-rwxr-xr-x 1 3434 3434 19024432 Jul 27 2022 node_exporter*
root@worker-node1:~/node_exporter-1.4.0-rc.0.linux-amd64#
```

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```
15.206.68.223 (ubuntu)
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
11. 13.201.6.153 (ubuntu) 7. 13.233.143.249 (ubuntu) 6. 15.206.68.223 (ubuntu) 9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)
root@worker-node2:~# kubectl --version
Kubernetes v1.29.10
root@worker-node2:~# ll
total 9552
drwx----- 5 root root 4096 Nov 14 15:29 .
drwxr-xr-x 19 root root 4096 Nov 14 11:04 ../
-rw----- 1 root root 1538 Nov 12 14:22 .bash_history
-rw-r--r-- 1 root root 3106 Oct 15 2021 .bashrc
-rw----- 1 root root 20 Nov 14 15:29 .lesshst
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
drwx----- 2 root root 4096 Nov 12 11:06 .ssh/
-rw-r--r-- 1 root root 0 Nov 12 11:16 .sudo_as_admin_successful
-rw----- 1 root root 1564 Nov 14 15:28 .viminfo
-rw-r--r-- 1 root root 165 Nov 14 15:27 .wget-hsts
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64/
-rw-r--r-- 1 root root 9735268 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64.tar.gz
drwx----- 4 root root 4096 Nov 12 11:06 snap/
root@worker-node2:~# cd node_exporter-1.4.0-rc.0.linux-amd64
root@worker-node2:~/node_exporter-1.4.0-rc.0.linux-amd64# ll
total 18604
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 .
drwx----- 5 root root 4096 Nov 14 15:29 ../
-rw-r--r-- 1 3434 3434 11357 Jul 27 2022 LICENSE
-rw-r--r-- 1 3434 3434 463 Jul 27 2022 NOTICE
-rwxr-xr-x 1 3434 3434 19024432 Jul 27 2022 node_exporter*
root@worker-node2:~/node_exporter-1.4.0-rc.0.linux-amd64#
```

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13.201.6.153 (ubuntu)

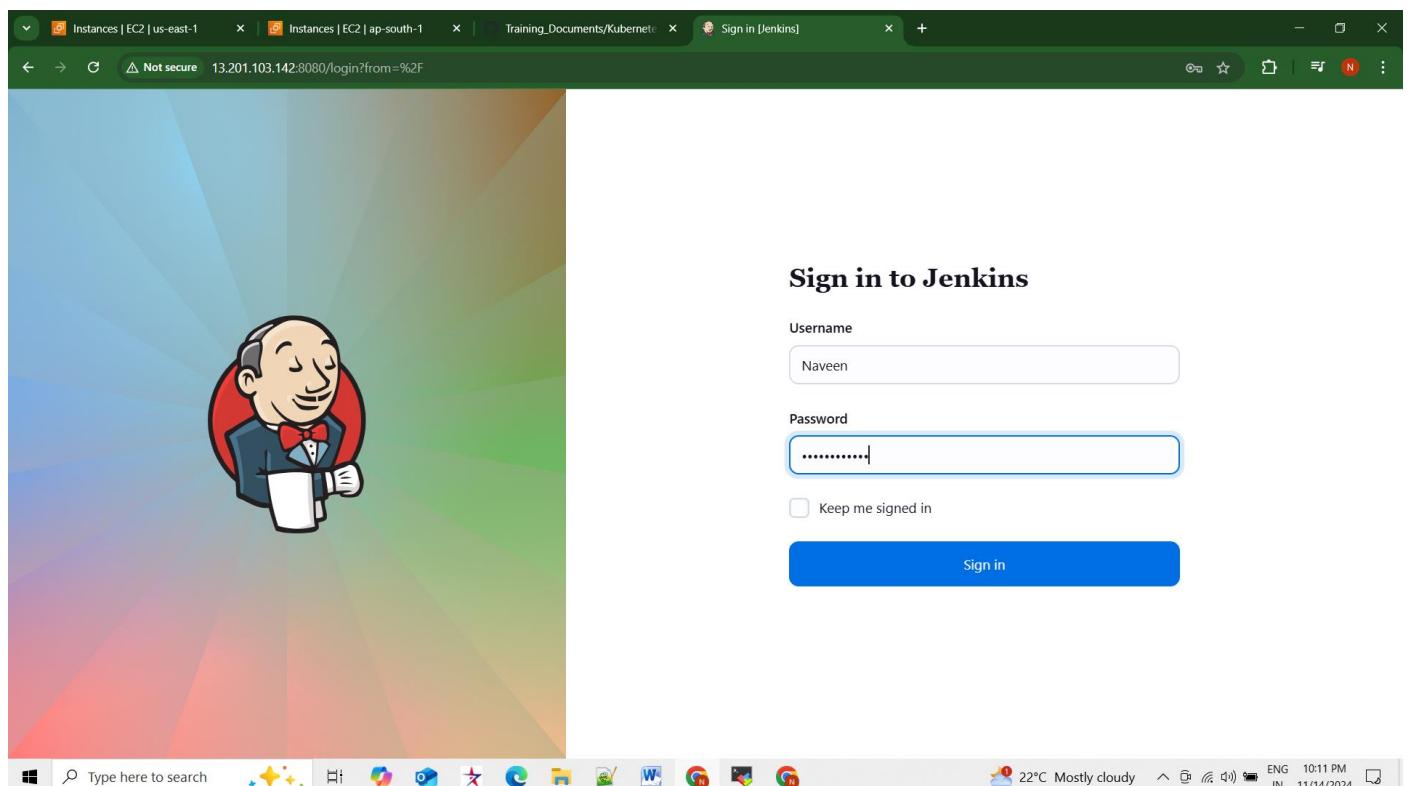
Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

```
root@kmaster-node:~# ll
total 9564
drwx----- 7 root root 4096 Nov 14 16:31 .
drwxr-xr-x 19 root root 4096 Nov 14 11:03 ..
-rw----- 1 root root 4430 Nov 14 15:47 .bash_history
-rw-r--r-- 1 root root 3106 Oct 15 2021 .bashrc
drwxr-xr-x 3 root root 4096 Nov 12 12:10 .kube/
-rw----- 1 root root 20 Nov 14 16:31 .lessshst
drwxr-xr-x 3 root root 4096 Nov 12 13:32 .local/
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
drwxr--r-- 2 root root 4096 Nov 12 11:06 .ssh/
-rw-r--r-- 1 root root 0 Nov 12 11:14 .sudo_as_admin_successful
-rw----- 1 root root 1564 Nov 14 15:01 .viminfo
-rw-r--r-- 1 root root 165 Nov 14 15:00 .wget-hsts
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64/
-rw-r--r-- 1 root root 9735268 Jul 27 2022 node_exporter-1.4.0-rc.0.linux-amd64.tar.gz
drwxr--r-- 4 root root 4096 Nov 12 11:06 snap/
root@kmaster-node:~# cd node_exporter-1.4.0-rc.0.linux-amd64
root@kmaster-node:~/node_exporter-1.4.0-rc.0.linux-amd64# ll
total 18604
drwxr-xr-x 2 3434 3434 4096 Jul 27 2022 .
drwx----- 7 root root 4096 Nov 14 16:31 ..
-rw-r--r-- 1 3434 3434 11357 Jul 27 2022 LICENSE
-rw-r--r-- 1 3434 3434 463 Jul 27 2022 NOTICE
-rwrxr-xr-x 1 3434 3434 19024432 Jul 27 2022 node_exporter*
root@kmaster-node:~/node_exporter-1.4.0-rc.0.linux-amd64#
```

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```
jenkins master
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)
root@jenkinsMaster:~# jenkins --version
2.479.1
root@jenkinsMaster:~# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-11-14 11:03:56 UTC; 5h 39min ago
     Main PID: 537 (java)
       Tasks: 53 (limit: 4676)
      Memory: 863.2M (peak: 871.7M)
        CPU: 3min 54.868s
      CGroup: /system.slice/jenkins.service
              └─537 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at PluginClassLoader for publish-over//jenkins.plugins.publish_over.BPCallabl>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at Jenkins v2.479.1//hudson.FilePath$FileCallableWrapper.call(FilePath.java:329)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.UserRequest.perform(UserRequest.java:225)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.UserRequest.perform(UserRequest.java:50)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.Request$2.run(Request.java:391)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.InterceptingExecutorService.lambda$wrap$0(InterceptingExecu>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.FutureTask.run(FutureTask.java:264)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecu>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExe>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.lang.Thread.run(Thread.java:840)
lines 1-20/20 (END)
```

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```
jenkins master
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
9. jenkins master 10. jenkins slave 12. 54.80.86.244 (ubuntu)
root@jenkinsMaster:~# jenkins --version
2.479.1
root@jenkinsMaster:~# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-11-14 11:03:56 UTC; 5h 39min ago
     Main PID: 537 (java)
       Tasks: 53 (limit: 4676)
      Memory: 863.2M (peak: 871.7M)
        CPU: 3min 54.868s
      CGroup: /system.slice/jenkins.service
              └─537 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at PluginClassLoader for publish-over//jenkins.plugins.publish_over.BPCallabl>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at Jenkins v2.479.1//hudson.FilePath$FileCallableWrapper.call(FilePath.java:329)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.UserRequest.perform(UserRequest.java:225)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.UserRequest.perform(UserRequest.java:50)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.Request$2.run(Request.java:391)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at hudson.remoting.InterceptingExecutorService.lambda$wrap$0(InterceptingExecu>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.FutureTask.run(FutureTask.java:264)
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecu>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExe>
Nov 14 12:37:32 ip-172-31-6-246 jenkins[537]:      at java.base/java.lang.Thread.run(Thread.java:840)

root@jenkinsMaster:~# java -version
openjdk version "17.0.13" 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Ubuntu-2ubuntu124.04)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Ubuntu-2ubuntu124.04, mixed mode, sharing)
root@jenkinsMaster:~#
```

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This screenshot shows a terminal window titled 'jenkins master' running on a Windows host. The terminal is connected to a Jenkins master node via SSH. The command 'ps aux | grep agent.jar' is run, showing a single process for the Jenkins agent. The session is part of a multi-session setup with other tabs labeled 'jenkins slave' and 'jenkins slave'.

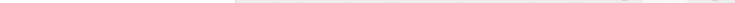
```
root@jenkinsMaster:~# ps aux | grep agent.jar
root      4140  0.0  0.0  7084  2048 pts/3    S+   16:45   0:00 grep --color=auto agent.jar
root@jenkinsMaster:~#
```

This screenshot shows a terminal window titled 'jenkins slave' running on a Windows host. The terminal is connected to a Jenkins slave node via SSH. Various system information commands are run, including 'docker --version', 'mvn -version', 'java -version', and 'git --version'. The session is part of a multi-session setup with other tabs labeled 'jenkins master' and 'jenkins slave'.

```
root@jenkinsslave:~# docker --version
Docker version 27.3.1, build ce12230
root@jenkinsslave:~# mvn -version
Apache Maven 3.8.7
Maven home: /usr/share/maven
Java version: 17.0.13, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1018-aws", arch: "amd64", family: "unix"
root@jenkinsslave:~# git --version
git version 2.43.0
root@jenkinsslave:~# java -version
openjdk version "17.0.13" 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Ubuntu-2ubuntu124.04)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Ubuntu-2ubuntu124.04, mixed mode, sharing)
root@jenkinsslave:~# git --version
git version 2.43.0
root@jenkinsslave:~#
```

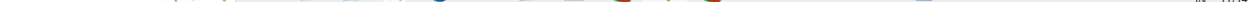
```
54.80.86.244 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
ubuntu@Gra-Promi:~$ sudo -i
root@Gra-Promi:~# ll
total 233832
drwx----- 7 root root 4096 Nov 14 15:32 .
drwxr-xr-x 23 root root 4096 Nov 14 13:08 ../
-rw----- 1 root root 1938 Nov 14 16:23 .bash_history
-rw-r--r-- 1 root root 3106 Apr 22 2024 .bashrc
-rw----- 1 root root 20 Nov 14 15:30 .lessshst
-rw-r--r-- 1 root root 161 Apr 22 2024 .profile
drwx----- 2 root root 4096 Nov 12 21:06 .ssh/
drwxr-xr-x 2 root root 4096 Nov 12 22:55 .terraform.d/
-rw----- 1 root root 14841 Nov 14 15:32 .viminfo
-rw-r--r-- 1 root root 165 Nov 13 15:55 .wget-hsts
-rw-r--r-- 1 root root 126377598 Nov 12 14:26 grafana_11.3.0+security~01_amd64.deb
drwxr-xr-x 2 root root 4096 Nov 12 22:59 naveen/
drwxr-xr-x 2 1001 127 4096 Nov 14 15:32 prometheus-3.0.0-rc.1.linux-amd64/
-rw-r--r-- 1 root root 112992848 Nov 12 00:01 prometheus-3.0.0-rc.1.linux-amd64.tar.gz
drwx----- 3 root root 4096 Nov 12 21:06 snap/
root@Gra-Promi:~#
```

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IN 11/14/2024

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```
root@Gra-Promi:~# systemctl status grafana-server
● grafana-server.service - Grafana instance
  Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; enabled; preset: enabled)
  Active: active (running) since Thu 2024-11-14 13:26:21 UTC; 3h 22min ago
    Docs: http://docs.grafana.org
    Main PID: 1933 (grafana)
      Tasks: 11 (limit: 4586)
     Memory: 216.5M (peak: 221.4M)
        CPU: 22.518s
       CGroup: /system.slice/grafana-server.service
               └─1933 /usr/share/grafana/bin/grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana.pid

Nov 14 16:06:24 ip-172-31-34-115 grafana[1933]: logger=plugins.update.checker t=2024-11-14T16:06:24.363934512Z lev>
Nov 14 16:16:23 ip-172-31-34-115 grafana[1933]: logger=cleanup t=2024-11-14T16:23.131164403Z level=info msg="Co>
Nov 14 16:16:23 ip-172-31-34-115 grafana[1933]: logger=plugins.update.checker t=2024-11-14T16:23.286806563Z lev>
Nov 14 16:26:23 Gra-Promi grafana[1933]: logger=cleanup t=2024-11-14T16:26:23.124366144Z level=info msg="Completed">
Nov 14 16:26:23 Gra-Promi grafana[1933]: logger=plugins.update.checker t=2024-11-14T16:26:23.290951045Z level=info>
Nov 14 16:26:53 Gra-Promi grafana[1933]: logger=infra.usagestats t=2024-11-14T16:26:53.144532865Z level=info msg=>
Nov 14 16:36:23 Gra-Promi grafana[1933]: logger=cleanup t=2024-11-14T16:36:23.121434607Z level=info msg="Completed">
Nov 14 16:36:23 Gra-Promi grafana[1933]: logger=plugins.update.checker t=2024-11-14T16:36:23.288832694Z level=info>
Nov 14 16:46:23 Gra-Promi grafana[1933]: logger=cleanup t=2024-11-14T16:46:23.123552123Z level=info msg="Completed">
Nov 14 16:46:23 Gra-Promi grafana[1933]: logger=plugins.update.checker t=2024-11-14T16:46:23.292135899Z level=info>
lines 1-21/21 (END)
```

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