

# DEVOPS PROJECT

```
May 28 2:17 PM
dhivya@ubuntu2409: ~/terraform/devops-structure

dhivya@ubuntu2409: ~/terraform/devops-structure
dhivya@ubuntu2409: ~/Downloads

dhivya@ubuntu2409:~/terraform/devops-structure$ terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.51.1

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.
dhivya@ubuntu2409:~/terraform/devops-structure$ terraform apply

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.controller-machine will be created
+ resource "aws_instance" "controller-machine" {
+   ami                  = "ami-09040d770ffe2224f"
+   arn                  = (known after apply)
+   associate_public_ip_address = true
+   availability_zone     = (known after apply)
}
```

```
May 28 2:17 PM
dhivya@ubuntu2409: ~/terraform/devops-structure

dhivya@ubuntu2409: ~/terraform/devops-structure
dhivya@ubuntu2409: ~/Downloads

aws_vpc.test-vpc: Still creating... [20s elapsed]
aws_vpc.test-vpc: Creation complete after 26s [id=vpc-04077a144f7d87367]
aws_internet_gateway.test-ig: Creating...
aws_subnet.test-pub-sub: Creating...
aws_security_group.test-sg: Creating...
aws_subnet.test-pub-sub: Creation complete after 2s [id=subnet-04cf6111ba44b5026]
aws_internet_gateway.test-ig: Creation complete after 3s [id=igw-0ca4613b9443cb8c1]
aws_route_table.test-pub-sub-rt: Creating...
aws_security_group.test-sg: Creation complete after 7s [id=sg-0458224a7e117c2d0]
aws_instance.controller-machine: Creating...
aws_instance.slave1: Creating...
aws_route_table.test-pub-sub-rt: Creation complete after 4s [id=rtb-0536a886ee7ed761e]
aws_route_table_association.test-pub-sub-rt-asso: Creating...
aws_route_table_association.test-pub-sub-rt-asso: Creation complete after 7s [id=rtbassoc-07a09689c995c1cc1]
aws_instance.controller-machine: Still creating... [10s elapsed]
aws_instance.kube-master: Still creating... [10s elapsed]
aws_instance.slave1: Still creating... [10s elapsed]
aws_instance.controller-machine: Still creating... [20s elapsed]
aws_instance.kube-master: Still creating... [20s elapsed]
aws_instance.slave1: Still creating... [20s elapsed]
aws_instance.controller-machine: Creation complete after 29s [id=i-01c88269726731e45]
aws_instance.kube-master: Still creating... [30s elapsed]
aws_instance.slave1: Still creating... [30s elapsed]
aws_instance.slave1: Creation complete after 39s [id=i-0269ffe30926a9703]
aws_instance.kube-master: Still creating... [40s elapsed]
aws_instance.kube-master: Creation complete after 40s [id=i-0548e801bdd15b7e9]

Apply complete! Resources: 9 added, 0 changed, 0 destroyed.
dhivya@ubuntu2409:~/terraform/devops-structure$
```

## TERRAFORM SCRIPT

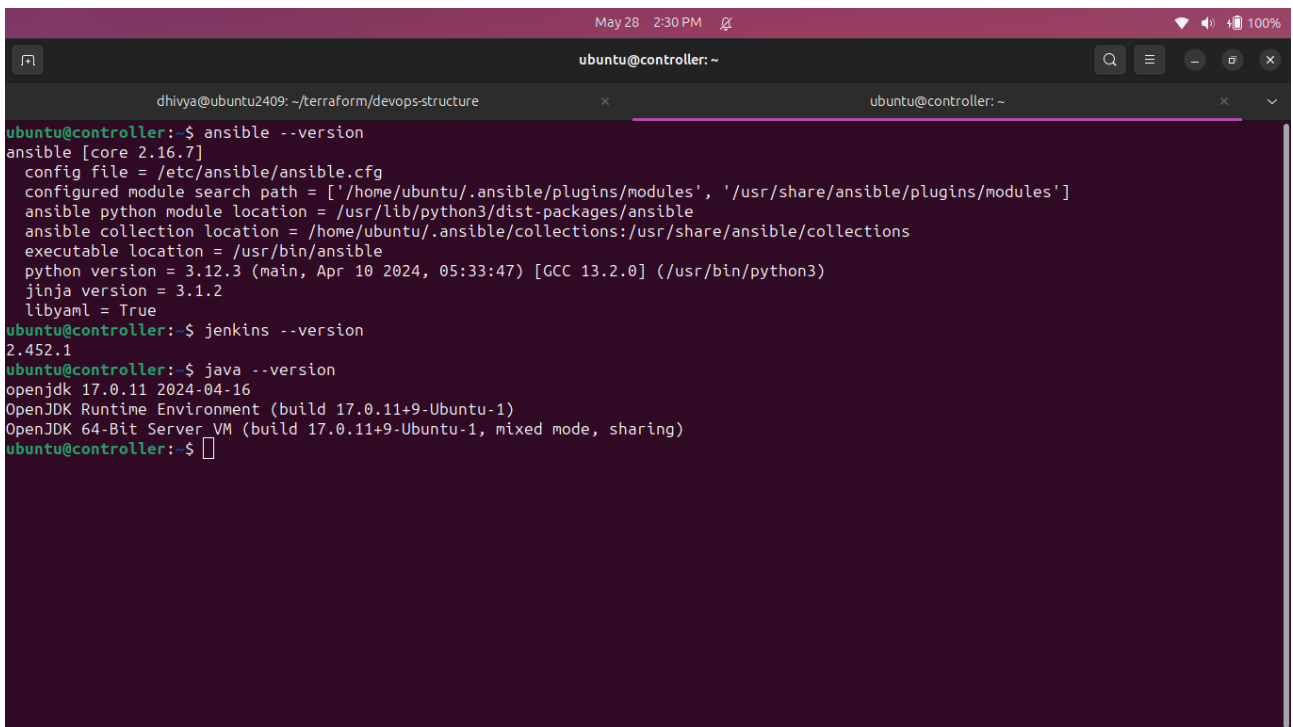
```
provider "aws"{
  region = "us-east-2"
  access_key = "AKIA6ODVALEZWV7V3S7H"
  secret_key = "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"
}
resource "aws_vpc" "test-vpc"{
  cidr_block = "10.0.0.0/24"
  enable_dns_hostnames = "true"
  tags = {
    Name = "test-vpc"
  }
}
resource "aws_internet_gateway" "test-ig"{
  vpc_id = aws_vpc.test-vpc.id
  tags = {
    Name = "test-ig"
  }
}
resource "aws_subnet" "test-pub-sub"{
  vpc_id = aws_vpc.test-vpc.id
  cidr_block = "10.0.0.0/28"
  availability_zone = "us-east-2a"
  tags = {
    Name = "test-pub-sub"
  }
}
resource "aws_route_table" "test-pub-sub-rt"{
  vpc_id = aws_vpc.test-vpc.id
  route {
    cidr_block = "0.0.0.0/0"
    gateway_id = aws_internet_gateway.test-ig.id
  }
  tags = {
    Name = "test-pub-sub-rt"
  }
}
resource "aws_route_table_association" "test-pub-sub-rt-asso"{
  subnet_id = aws_subnet.test-pub-sub.id
  route_table_id = aws_route_table.test-pub-sub-rt.id
}
resource "aws_security_group" "test-sg"{
  name = "test-sg"
  description = "enable port 22,80,8080"
  vpc_id = aws_vpc.test-vpc.id
  ingress {
    description = "enable ssh port"
    from_port = 22
```

```

    to_port = 22
    protocol = "tcp"
    cidr_blocks = ["0.0.0.0/0"]
}
ingress {
    description = "enable http port"
    from_port = 80
    to_port = 80
    protocol = "tcp"
    cidr_blocks = ["0.0.0.0/0"]
}
ingress {
    description = "enable jenkins port"
    from_port = 8080
    to_port = 8080
    protocol = "tcp"
    cidr_blocks = ["0.0.0.0/0"]
}
egress {
    description = "enable all port"
    from_port = 0
    to_port = 0
    protocol = "-1"
    cidr_blocks = ["0.0.0.0/0"]
}
tags = {
    Name = "test-sg"
}
}
resource "aws_instance" "controller-machine" {
    instance_type = "t2.small"
    ami = "ami-09040d770ffe2224f"
    key_name = "keypair-aws"
    associate_public_ip_address = true
    subnet_id = aws_subnet.test-pub-sub.id
    vpc_security_group_ids = [aws_security_group.test-sg.id]
    tags = {
        Name = "controller-machine"
    }
}
resource "aws_instance" "kube-master" {
    instance_type = "t2.medium"
    ami = "ami-09040d770ffe2224f"
    key_name = "keypair-aws"
    associate_public_ip_address = true
    vpc_security_group_ids = [aws_security_group.test-sg.id]
    subnet_id = aws_subnet.test-pub-sub.id
    tags = {
        Name = "kube-master"
    }
}
resource "aws_instance" "slave1" {

```

```
instance_type = "t2.micro"
ami = "ami-09040d770ffe2224f"
key_name = "keypair-aws"
associate_public_ip_address = true
vpc_security_group_ids = [aws_security_group.test-sg.id]
subnet_id = aws_subnet.test-pub-sub.id
tags = {
    Name = "slave1"
}
}
```



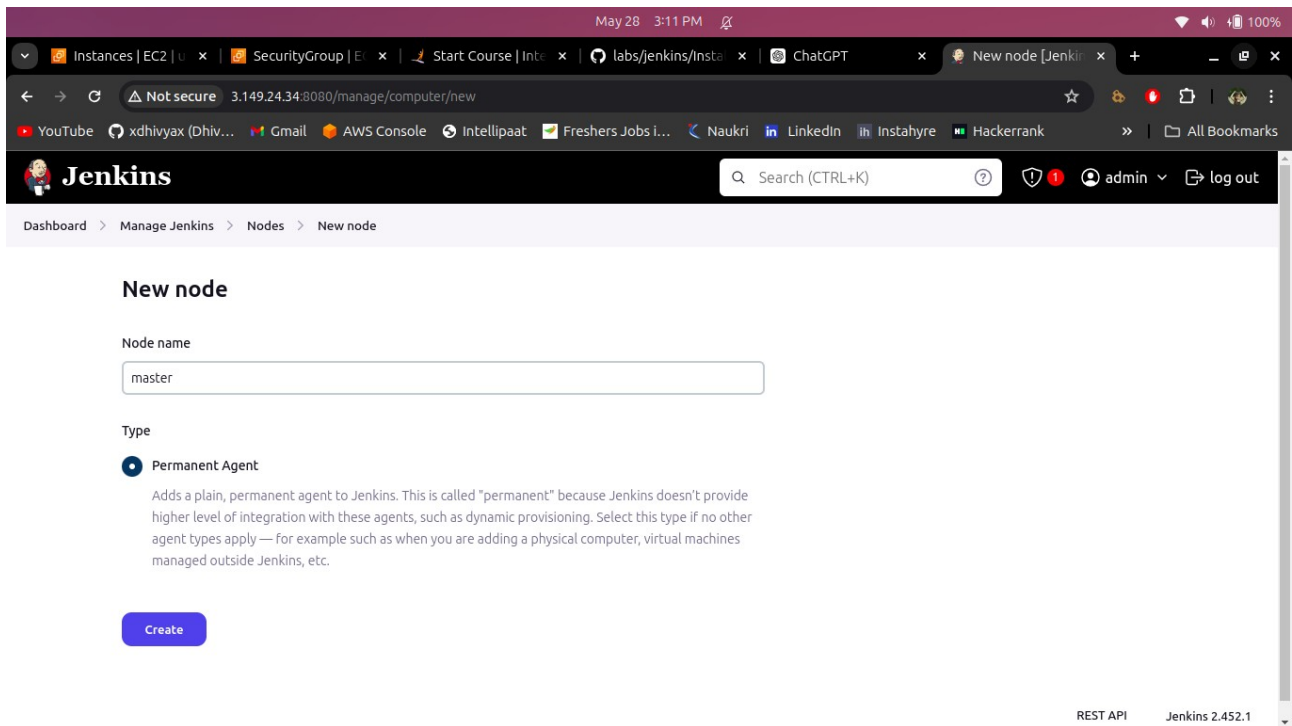
A terminal window titled 'ubuntu@controller: ~' with a search bar and window controls. It shows the execution of three version-checking commands. The first command, 'ansible --version', displays detailed information about the Ansible installation, including the config file, module search paths, collection locations, and the Python/Jinja versions. The second command, 'jenkins --version', shows the Jenkins version as 2.452.1. The third command, 'java --version', displays the OpenJDK version 17.0.11 and its build details.

```
ubuntu@controller:~$ ansible --version
ansible [core 2.16.7]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Apr 10 2024, 05:33:47) [GCC 13.2.0] (/usr/bin/python3)
  jinja version = 3.1.2
  libyaml = True
ubuntu@controller:~$ jenkins --version
2.452.1
ubuntu@controller:~$ java --version
openjdk 17.0.11 2024-04-16
OpenJDK Runtime Environment (build 17.0.11+9-Ubuntu-1)
OpenJDK 64-Bit Server VM (build 17.0.11+9-Ubuntu-1, mixed mode, sharing)
ubuntu@controller:~$
```

```
May 28 3:40 PM
ubuntu@controller: /etc/ansible
ubuntu@controller: /etc/ansible
ubuntu@controller: /etc/ansible$ cat hosts
[master]
3.137.222.205
ubuntu@controller: /etc/ansible$ cat playbook.yaml
---
- name: install java and docker on master
  hosts: master
  become: true
  tasks:
    - name: installation of s/w
      script: install.sh
ubuntu@controller: /etc/ansible$ cat install.sh
sudo apt update
sudo apt install docker.io -y
sudo apt install openjdk-11-jdk -y
ubuntu@controller: /etc/ansible$
```

```
May 28 3:38 PM
ubuntu@controller: /etc/ansible
ubuntu@controller: /etc/ansible
ubuntu@controller: /etc/ansible$ ansible-playbook playbook.yaml
PLAY [install java and docker on master] *****
TASK [Gathering Facts] *****
ok: [3.137.222.205]
TASK [installation of s/w] *****
changed: [3.137.222.205]
PLAY RECAP *****
3.137.222.205 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
ubuntu@controller: /etc/ansible$
```

```
May 28 3:39 PM
ubuntu@kube-master: ~/.ssh
ubuntu@controller: /etc/ansible
ubuntu@kube-master: ~/.ssh$ java --version
openjdk 11.0.23 2024-04-16
OpenJDK Runtime Environment (build 11.0.23+9-post-Ubuntu-1ubuntu1)
OpenJDK 64-Bit Server VM (build 11.0.23+9-post-Ubuntu-1ubuntu1, mixed mode, sharing)
ubuntu@kube-master: ~/.ssh$ docker --version
Docker version 24.0.7, build 24.0.7-0ubuntu4
ubuntu@kube-master: ~/.ssh$
```



May 29 12:34 PM

Webhook - http:// x Instances | EC2 | x Intellipaat x ChatGPT x master Configura x New Tab x +

Not secure 18.188.238.89:8080/computer/master/configure

Dashboard > Nodes > master > Configure

Usage ?  
Use this node as much as possible

Launch method ?  
Launch agents via SSH

Host ?  
ec2-18-191-132-121.us-east-2.compute.amazonaws.com

Credentials ?  
MASTER  
+ Add

Host Key Verification Strategy ?  
Non verifying Verification Strategy ?

Save

May 28 3:44 PM

Instances | EC2 | x Start Course | Inte x labs/jenkins/Insta x ChatGPT x Nodes [Jenkins] x MyWork/Ansible/ x +

Not secure 3.149.24.34:8080/manage/computer/

Jenkins Search (CTRL+K) admin log out

Dashboard > Manage Jenkins > Nodes >

Nodes + New Node Configure Monitors

Build Queue  
No builds in the queue.

Build Executor Status  
Built-In Node  
1 Idle  
2 Idle  
master  
1 Idle

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	3.19 GiB	0 B	3.19 GiB	0ms
	master	Linux (amd64)	In sync	4.15 GiB	0 B	4.15 GiB	87ms
Data obtained		11 sec	11 sec	11 sec	11 sec	11 sec	11 sec

Icon: S M L Legend

REST API Jenkins 2.452.1

May 29 1:38 PM 73%

ubuntu@kube-master: ~

ubuntu@controller: ~ x ubuntu@kube-master: ~ x ubuntu@slave1: ~

```
ubuntu@kube-master:~$ kubectl get nodes
NAME          STATUS    ROLES    AGE   VERSION
kube-master   Ready     control-plane  40m   v1.29.5
slave1        Ready     <none>      115s  v1.29.5
ubuntu@kube-master:~$
```

Save Apply

May 29 2:32 PM 97%

Project: x Instance: x Find av x clone Co x Start Co x dhivya2 x Intellipa x Intellipa x 18.191.1 x +

← → ↻ Not secure 18.188.238.89:8080/job/clone/configure 🔍 ☆ 📄 🗑 🔄 📄

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Dashboard > clone > Configuration

### Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Repositories ?

Repository URL ?

https://github.com/xdhiviyax/Capstone-Project.git

Credentials ?

- none -

+ Add +

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/main

Save Apply



May 28 6:57 PM

Start Course | Inte x clone Config [Jen x ChatGPT x labs/cicd-flow/CIC x dhivya2409/capst x Capstone-Project x +

Not secure 3.149.24.34:8080/job/clone/configure

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Dashboard > clone > Configuration

## Configure

- General
- Source Code Management
- Build Triggers**
- Build Environment
- Build Steps
- Post-build Actions

### Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?

### Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s) ?
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published build scans

**Save** **Apply**

May 28 6:57 PM

Start Course | Inte x clone Config [Jen x ChatGPT x labs/cicd-flow/CIC x dhivya2409/capst x Capstone-Project x +

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Dashboard > clone > Configuration

## Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions**

### Post-build Actions

**Build other projects** ?

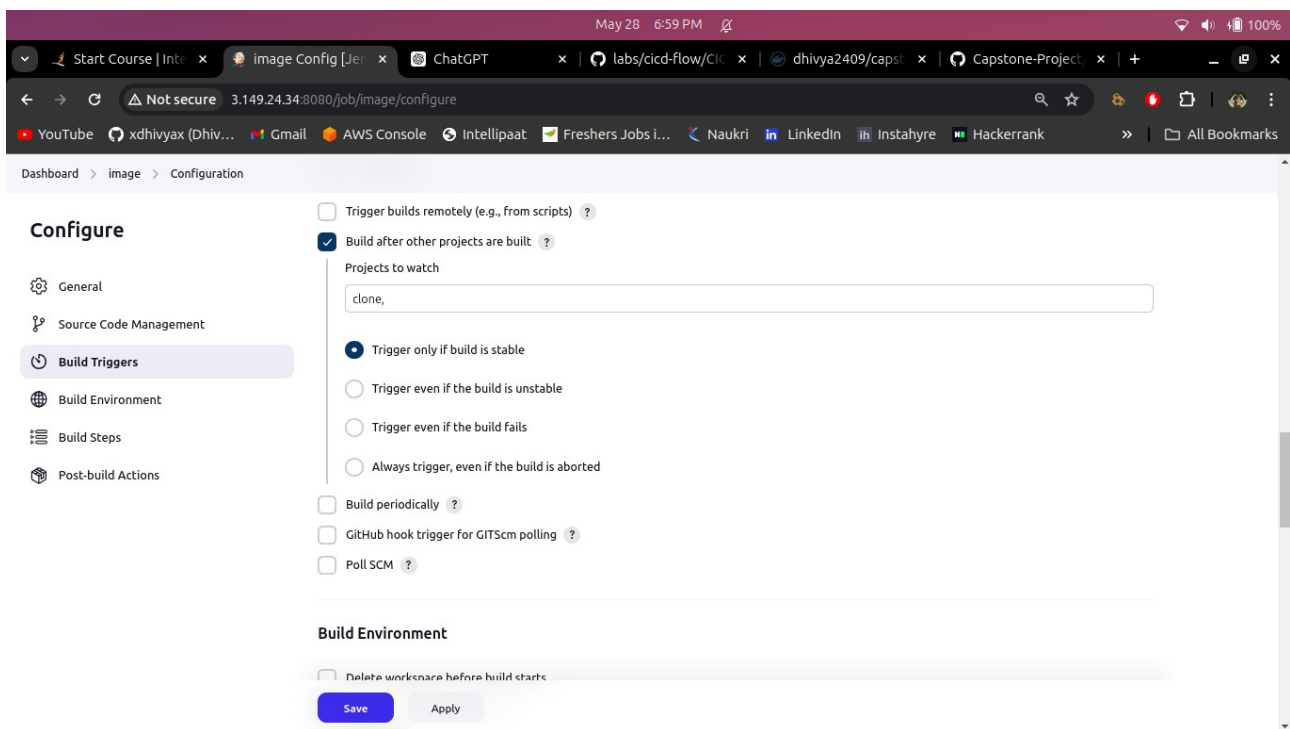
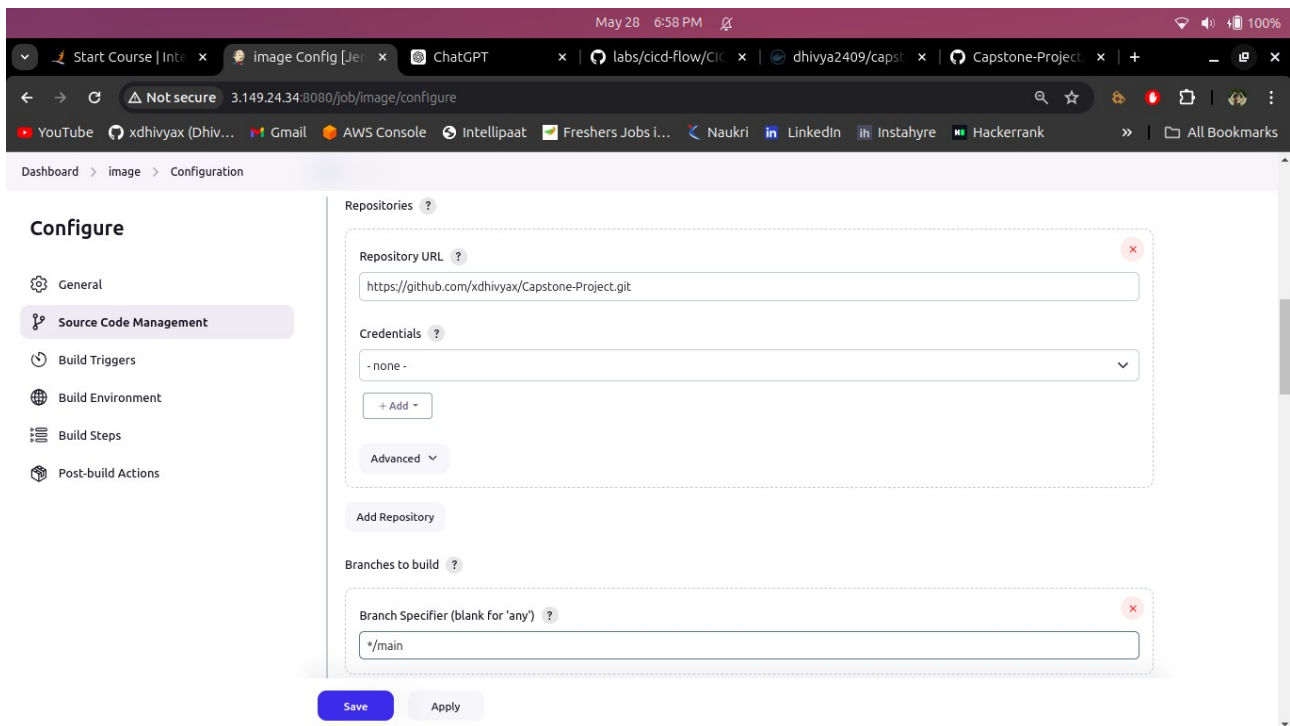
Projects to build

image

- ☒ Trigger only if build is stable
- ☐ Trigger even if the build is unstable
- ☐ Trigger even if the build fails

Add post-build action

**Save** **Apply**



May 28 6:59 PM

Start Course | Inte x image Config [Je x ChatGPT x labs/cicd-flow/CIC x dhivya2409/capst x Capstone-Project x +

Not secure 3.149.24.34:8080/job/image/configure

Dashboard > image > Configuration

### Configure

- General
- Source Code Management
- Build Triggers
- Build Environment**
- Build Steps
- Post-build Actions

#### Build Environment

☐ Delete workspace before build starts

☒ Use secret text(s) or file(s) ?

##### Bindings

**Secret text** ?

Variable ?

DOCKER

Credentials ?

☒ Specific credentials ☐ Parameter expression

DOCKER

+ Add

Add

☐ Add timestamps to the Console Output

Save Apply

May 29 12:33 PM

Webhook - http:// x Instances | EC2 | u x Intellipaat x ChatGPT x image Config [Je x New Tab x +

Not secure 18.188.238.89:8080/job/image/configure

Dashboard > image > Configuration

### Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

#### Build Steps

**Execute shell** ?

Command

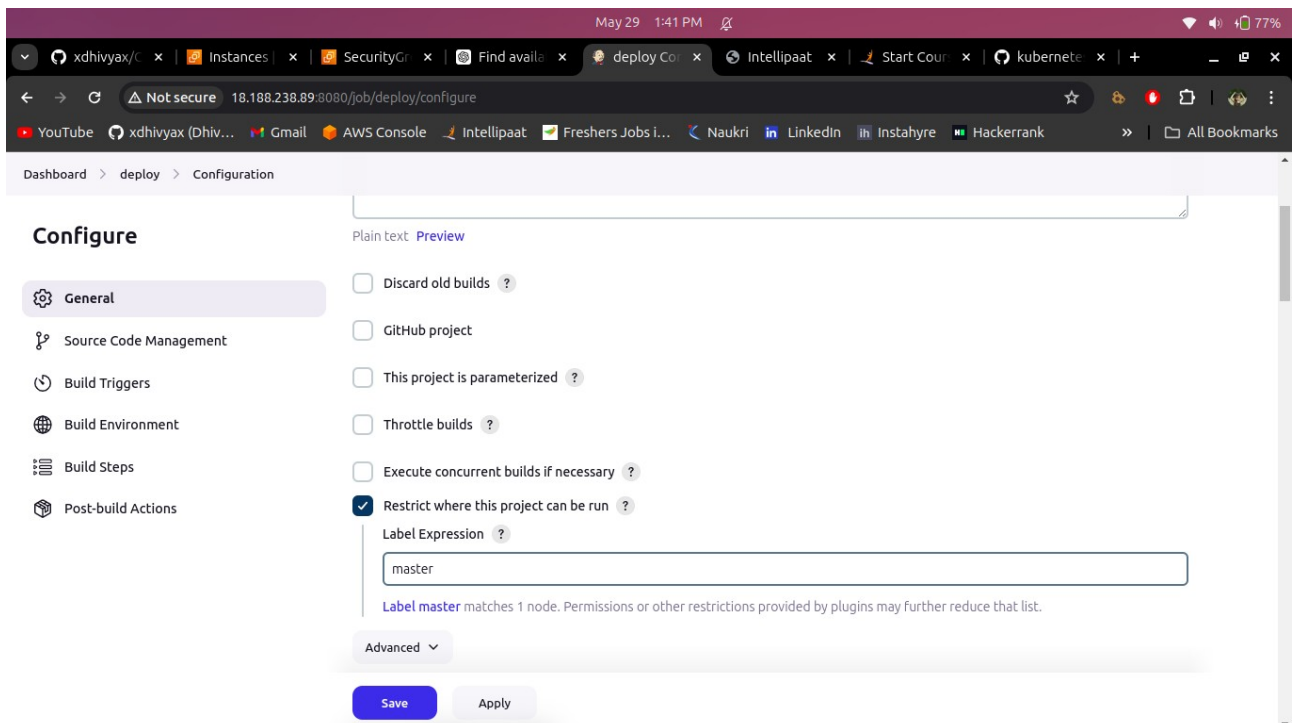
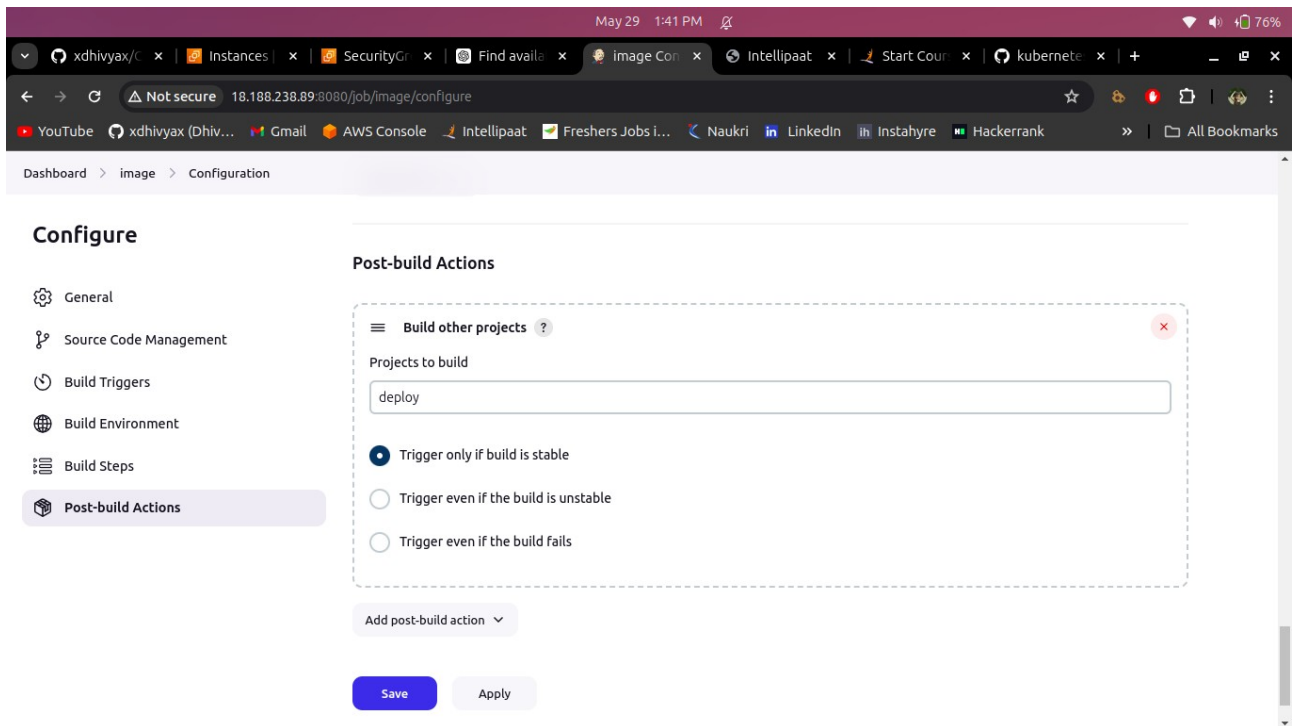
See [the list of available environment variables](#)

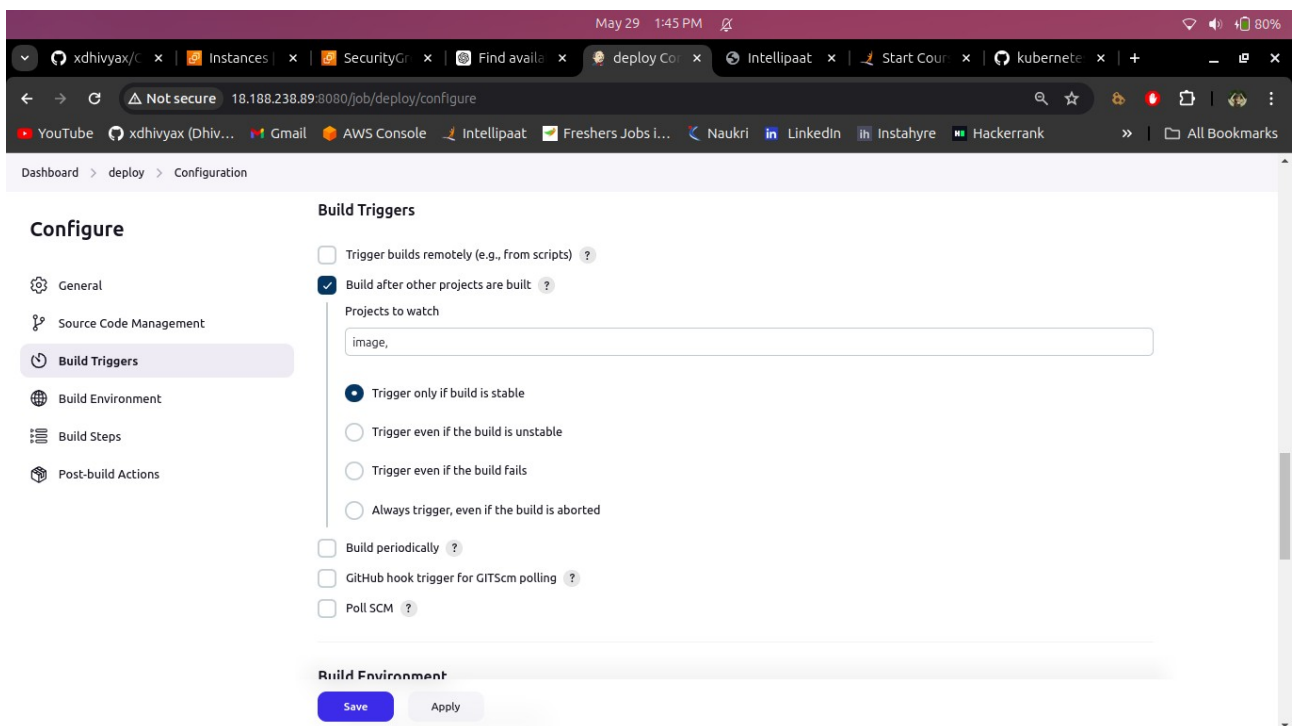
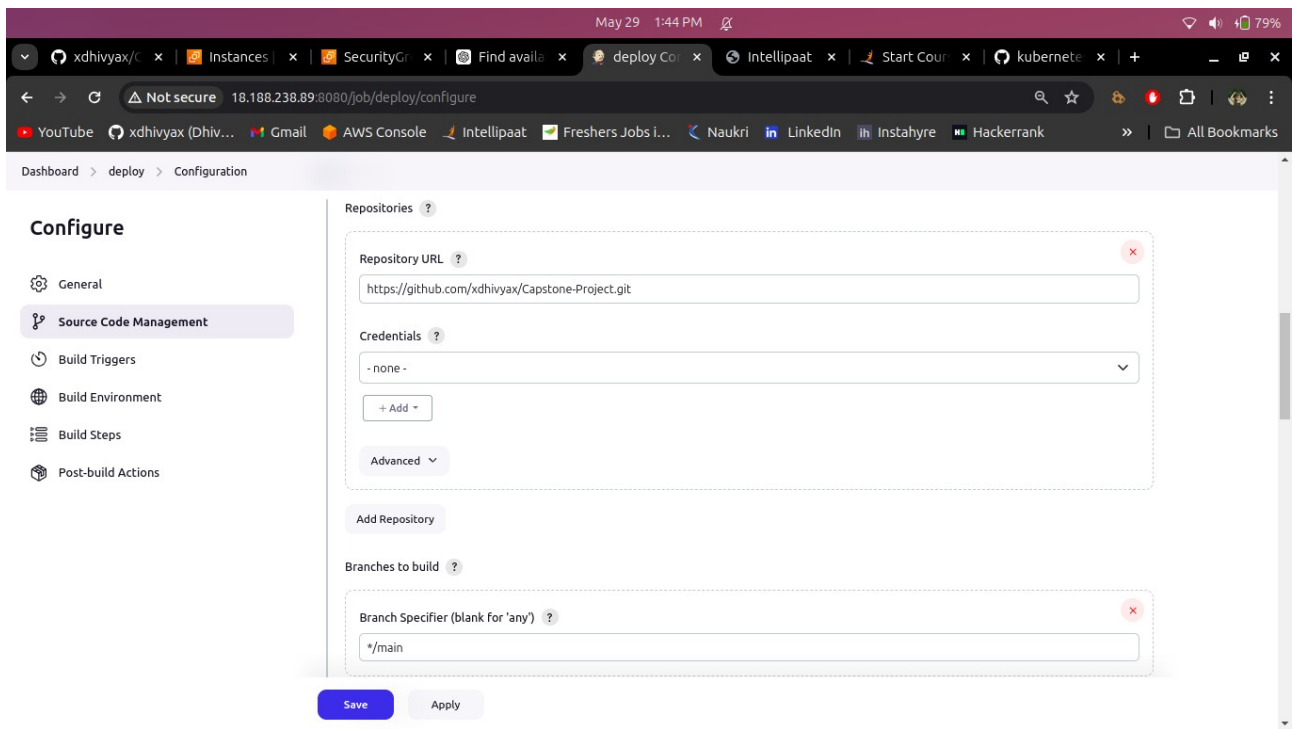
```
docker build -f Dockerfile -t dhivya2409/capstone-project1:$BUILD_NUMBER .
echo $DOCKER | docker login -u dhivya2409 --password-stdin
docker push dhivya2409/capstone-project1:$BUILD_NUMBER
docker run -d -p 85:80 dhivya2409/capstone-project1:$BUILD_NUMBER
```

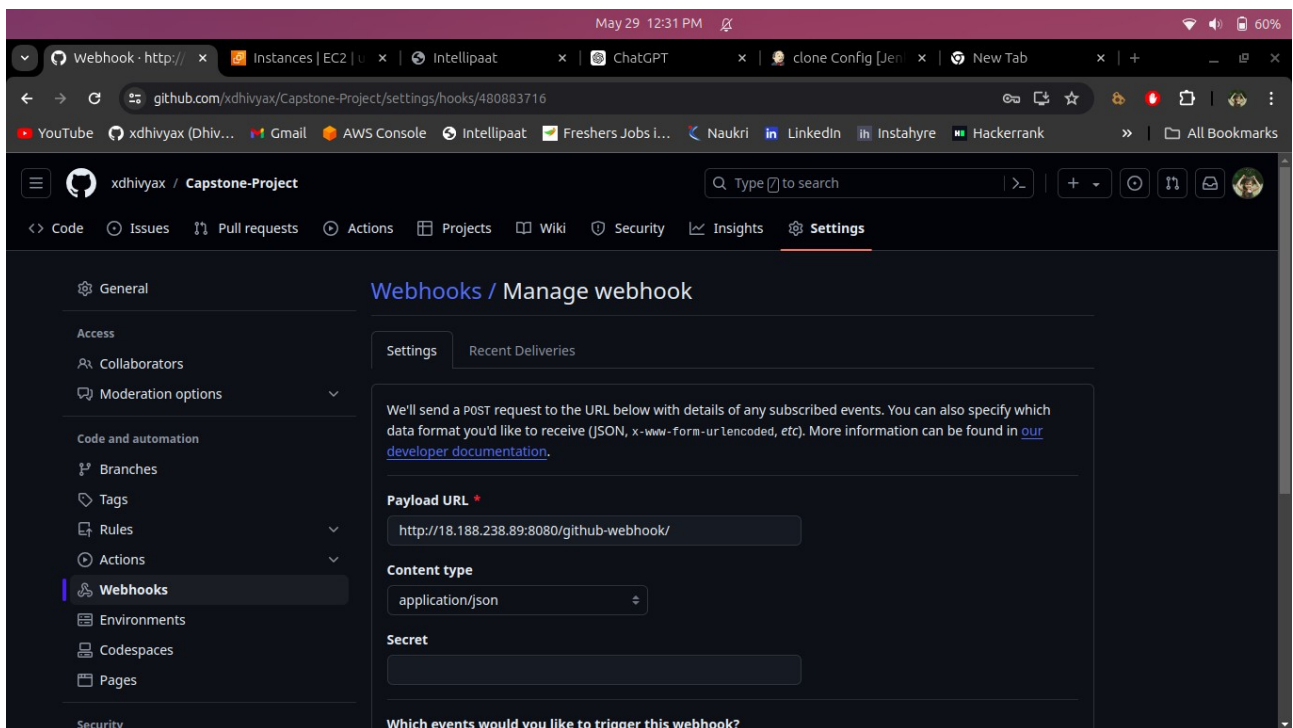
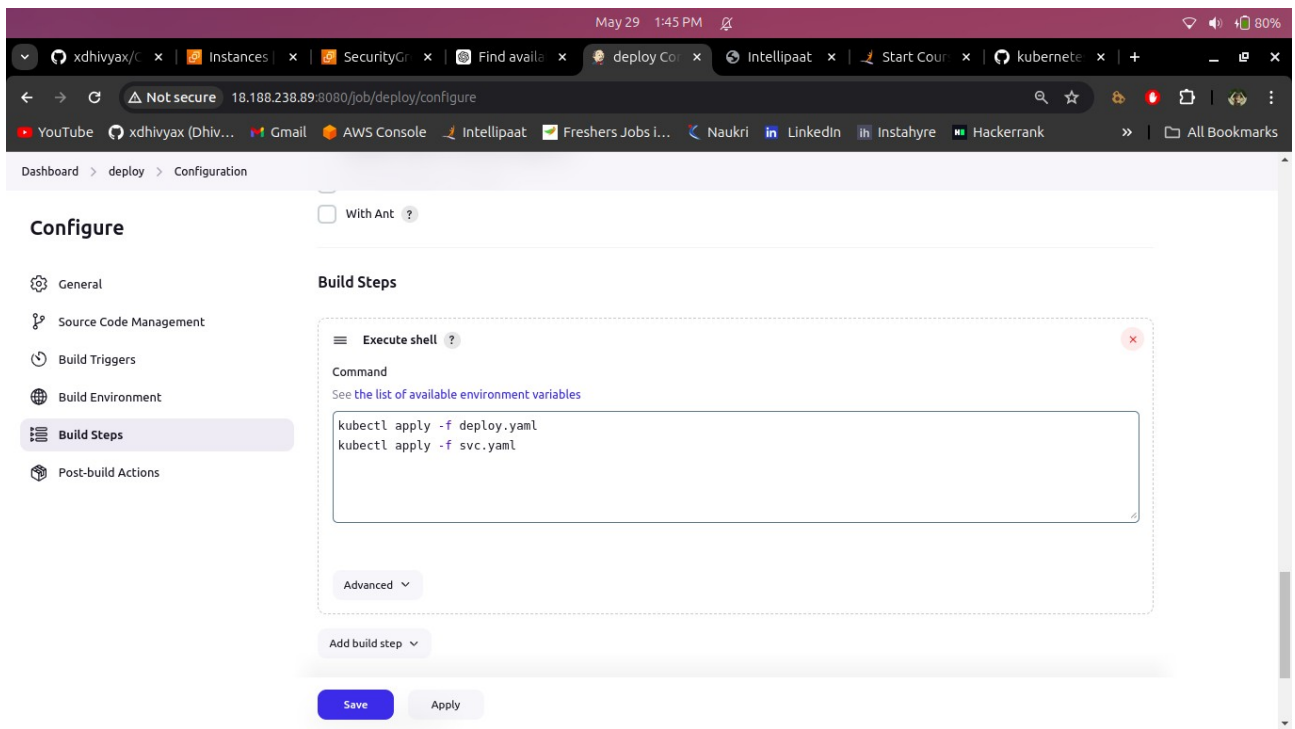
Advanced

Add build step

Save Apply









```
May 29 2:08 PM
dhivya@ubuntu2409: ~/github/Capstone-Project

dhivya@ubuntu2409:~/github/Capstone-Project$ git add .
dhivya@ubuntu2409:~/github/Capstone-Project$ git commit -m "deploy files"
[main c5b3ed4] deploy files
1 file changed, 1 insertion(+), 1 deletion(-)
dhivya@ubuntu2409:~/github/Capstone-Project$ git push origin main
warning: git-credential-manager-core was renamed to git-credential-manager
warning: see https://aka.ms/gcm/rename for more information
warning: git-credential-manager-core was renamed to git-credential-manager
warning: see https://aka.ms/gcm/rename for more information
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 284 bytes | 284.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/xdhivya/Capstone-Project.git
710d22f..c5b3ed4 main -> main
dhivya@ubuntu2409:~/github/Capstone-Project$
```

May 29 2:09 PM

Project-2/svc.yaml | Connect to instan | Find available por | freestyle-view [Je | Start Course | Inte | dhivya2409/capst | +

Not secure 18.188.238.89:8080/user/admin/my-views/view/freestyle-view/

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Jenkins Search (CTRL+K) admin log out

Dashboard > admin > My Views > freestyle-view >

### Build Pipeline

Run History Configure Add Step Delete Manage

Pipeline  
#12

#12 clone  
May 29, 2024 8:38:39 AM  
0.31 sec

#27 image  
May 29, 2024 8:38:49 AM  
4.5 sec

deploy  
N/A  
N/A

May 29 2:09 PM

Project-2/svc.yaml | Connect to instan | Find available por | freestyle-view | Start Course | Inte | dhivya2409/capst | +

Not secure 18.188.238.89:8080/user/admin/my-views/view/freestyle-view/

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# Jenkins

Search (CTRL+K)

admin | log out

Dashboard > admin > My Views > freestyle-view >

## Build Pipeline

Run History Configure Add Step Delete Manage

Pipeline #12

#12 clone  
May 29, 2024 8:38:39 AM  
0.31 sec

#27 image  
May 29, 2024 8:38:49 AM  
4.5 sec

#2 deploy  
May 29, 2024 8:38:59 AM  
0.88 sec

REST API Jenkins 2.452.1

May 29 2:09 PM

ubuntu@controller: ~

dhivya@ubuntu2409: ~/github/Capstone-Project | ubuntu@kube-master: ~ | ubuntu@controller: ~

```
ubuntu@controller:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
eb43a88be279   dhivya2409/capstone-project1:27    "apache2ctl -D FOREG..." 53 seconds ago Up 52 seconds 0.0.0.0:85->80/tcp, :::85->80/tcp
relaxed_greider
```

ubuntu@controller:~\$



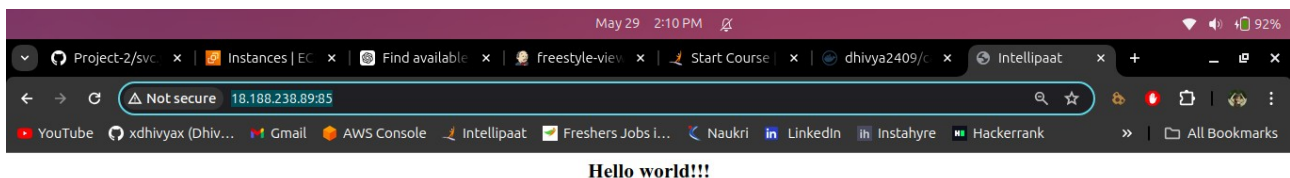
```
May 29 2:28 PM
ubuntu@kubernetes-master: ~
dhivya@ubuntu2409: ~/github/Capstone-Project
ubuntu@controller: ~
ubuntu@kubernetes-master: ~

ubuntu@kubernetes-master:~$ kubectl get pods -o wide
NAME                                READY    STATUS    RESTARTS   AGE   IP              NODE    NOMINATED NODE    READINESS GATES
deployment-69f87cb966-cptrp         1/1      Running   0           18m   192.168.140.193  slave1  <none>             <none>
deployment-69f87cb966-kqbrp         1/1      Running   0           18m   192.168.140.194  slave1  <none>             <none>

ubuntu@kubernetes-master:~$ kubectl get deploy -o wide
NAME                READY    UP-TO-DATE    AVAILABLE   AGE   CONTAINERS   IMAGES                               SELECTOR
deployment          2/2      2              2           19m   myimage      dhivya2409/capstone-project1:27    app=project

ubuntu@kubernetes-master:~$ kubectl get svc -o wide
NAME                TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)          AGE   SELECTOR
kubernetes          ClusterIP   10.96.0.1     <none>         443/TCP          89m   <none>
service             NodePort    10.101.253.235 <none>         80:30000/TCP     19m   app=project

ubuntu@kubernetes-master:~$
```



GitHub

Project-2/svc.yam

Instances | EC2 |

Find available por

freestyle-view [Je

Start Course | Inte

dhivya2409/capst

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5C,client:false

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aws Services Search [Alt+S]

Ohio Dhivya J

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations New

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/3) Info

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

Refresh

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input checked="" type="checkbox"/>	controller-machine	i-01c88269726731e45	Running	t2.small	2/2 checks passed	View alarms +
<input type="checkbox"/>	kube-master	i-0548e801bdd15b7e9	Running	t2.medium	2/2 checks passed	View alarms +
<input type="checkbox"/>	slave1	i-0269ffe30926a9703	Running	t2.micro	2/2 checks passed	View alarms +

i-01c88269726731e45 (controller-machine)

Details Status and alarms New Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID

i-01c88269726731e45 (controller-machine)

Public IPv4 address

18.188.238.89 open address

Private IPv4 addresses

10.0.0.13

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-18-188-238-89.us-east-2.compute.amazonaws.com

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Project- x

Instance x

Security x

Find ava x

freestyle x

Start Co x

dhivya2 x

Intellipa x

Intellipa x

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5C,client:false

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Ohio Dhivya J

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations New

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/3) Info

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

Refresh

Connect

Instance state

Actions

Launch instances

i-0269ffe30926a9703 (slave1)

Details Status and alarms New Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID

i-0269ffe30926a9703 (slave1)

Public IPv4 address

18.222.91.13 open address

Private IPv4 addresses

10.0.0.8

IPv6 address

-

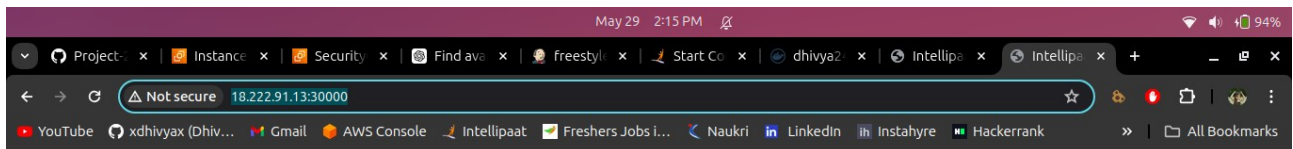
Instance state

Running

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ec2-18-222-91-13.us-east-2.compute.amazonaws.com

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Hello world!!!



## DOCKERFILE

```
FROM ubuntu
RUN apt-get update && apt-get install -y apache2
COPY . /var/www/html/
EXPOSE 80
CMD ["apache2ctl", "-D", "FOREGROUND"]
```

## deploy.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: deployment
  labels:
    app: project
spec:
  replicas: 2
  selector:
    matchLabels:
      app: project
  template:
    metadata:
```

```
labels:
  app: project
spec:
  containers:
  - name: myimage
    image: dhivya2409/capstone-project1:27
    ports:
    - containerPort: 80
```

### **svc.yaml**

```
apiVersion: v1
kind: Service
metadata:
  name: service
spec:
  type: NodePort
  ports:
  - targetPort: 80
    port: 80
    nodePort: 30000
  selector:
    app: project
```