

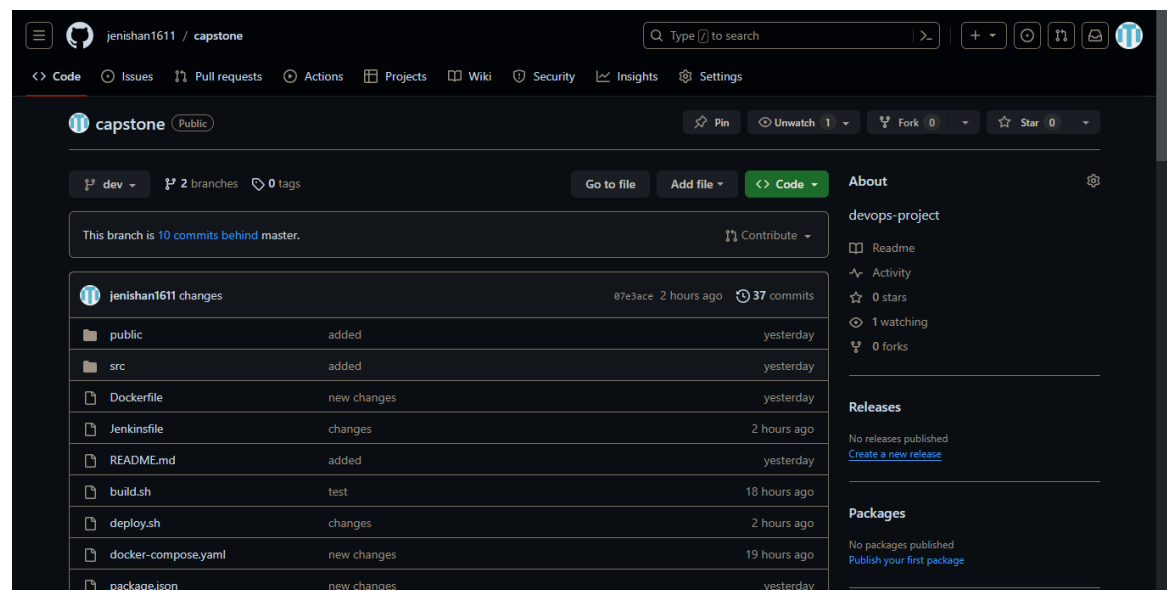
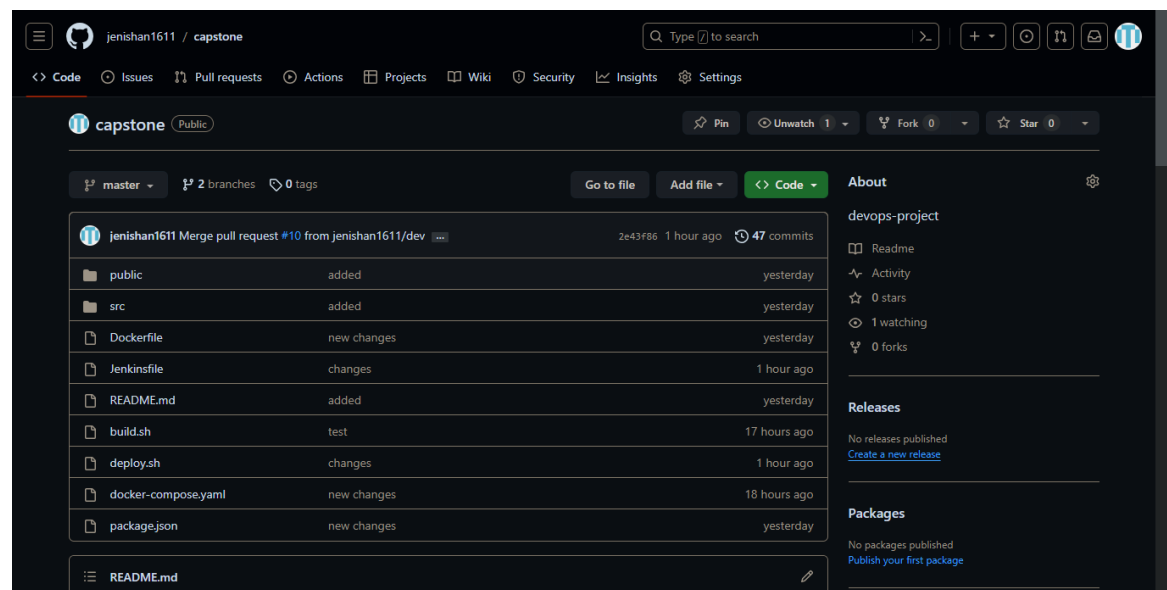
# DevOps Capstone Project

**Application URL** - <https://github.com/jenishan1611/capstone.git>

**Deployed URL** - <http://18.136.208.71:80> (after deploying application, I was reboot my instance for connectivity issues by doing this ip address changed)


**Docker image name** – reacting

## Github



# Jenkins

← → ↻ ⚠ Not secure | 54.251.160.26:8080/login?from=%2F




## Sign in to Jenkins

Username

Password

☐ Keep me signed in

Sign in

**Jenkins**

Search (CTRL+K) ? 🛡️ 1 👤 jenishan 🚪 log out

Dashboard >

+ New Item

👤 People

📅 Build History

🕒 Project Relationship

🔍 Check File Fingerprint

⚙️ Manage Jenkins

📅 My Views

All +

S	W	Name	Last Success	Last Failure	Last Duration
🟢	🌞	capstone	12 min #43	49 min #38	3 min 44 sec

Icon: S M L    Icon legend    📡 Atom feed for all    📡 Atom feed for failures    📡 Atom feed for just latest builds

Add description


Build Queue


No builds in the queue.


Build Executor Status


1 Idle

2 Idle

**Jenkins**







**1**

jenishan


log out

Dashboard > Manage Jenkins > Credentials

### Credentials

T	P	Store	Domain	ID	Name
		System	(global)	git	jenishan1611/***** (git)
		System	(global)	DOCKER_TOKEN	DOCKER_TOKEN
		System	(global)	docker	jenishan1611/***** (docker)

### Stores scoped to Jenkins

P	Store	Domains
	System	(global)

Icon: S M L

☒ Environment variables

List of variables ?

Name

\$DOCKER\_TOKEN

Value

dckr\_pat\_VluWhuGgoR1TsUUv62jDHfifxv8

Name

\$DOCKER\_USERNAME

Value

jenishan1611

Save

Apply

Name

\$IMAGE\_NAME

Value

reacting

Add

☐ Tool Locations

Disable Speed / Durability

Dashboard > capstone > Configuration

Configure

General

Advanced Project Options

Pipeline

☐ Discard old builds ?

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☒ GitHub project

Project url ?

https://github.com/jenishan1611/capstone.git/

Advanced ▾

Help for feature: Pipeline speed/durability override

☐ Pipeline speed/durability override ?

☐ Preserve stashes from completed builds ?

☐ This project is parameterized ?

☐ Throttle builds ?

Build Triggers

Save

Apply

\$4.251.160.26:8080/job/capstone/configure#

Dashboard > capstone > Configuration

Configure

General

Advanced Project Options

Pipeline

☐ This project is parameterized ?

☐ Throttle builds ?

Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☒ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

☐ Trigger builds remotely (e.g., from scripts) ?

Advanced Project Options

Advanced ▾

Save

Apply

Dashboard > capstone > Configuration

Configure

General

Advanced Project Options

Pipeline

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/jenishan1611/capstone.git

Credentials ?

jenishan1611/\*\*\*\*\* (git)

Add ▾

Advanced ▾

Save

Apply

Dashboard > capstone > Configuration

### Configure

General

Advanced Project Options

Pipeline

Branch Specifier (blank for 'any') ?

\*/master

Branch Specifier (blank for 'any') ?

\*/dev

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Script Path ?

Jenkinsfile

Save

Apply

## Console output for production

Jenkins

Search (CTRL+K)

jenishan

log out

Dashboard > capstone > #43

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#43'

Polling Log

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

✓ Console Output

Started by GitHub push by jenishan1611  
Lightweight checkout support not available, falling back to full checkout.  
Checking out git <https://github.com/jenishan1611/capstone.git> into  
/var/lib/jenkins/workspace/capstone@script/986ca81f3a5674ebbf9dada125126fbf435d57e6b56bad6b83aa3ca90934415 to read  
Jenkinsfile  
The recommended git tool is: NONE  
using credential git  
> git rev-parse --resolve-git-dir  
/var/lib/jenkins/workspace/capstone@script/986ca81f3a5674ebbf9dada125126fbf435d57e6b56bad6b83aa3ca90934415/.git # timeout=10  
Fetching changes from the remote Git repository  
> git config remote.origin.url <https://github.com/jenishan1611/capstone.git> # timeout=10  
Fetching upstream changes from <https://github.com/jenishan1611/capstone.git>  
> git --version # timeout=10  
> git --version # 'git version 2.34.1'  
using GIT\_ASKPASS to set credentials git  
> git fetch --tags --force --progress -- <https://github.com/jenishan1611/capstone.git> +refs/heads/\*:refs/remotes/origin/\* #  
timeout=10  
Seen branch in repository origin/dev  
Seen branch in repository origin/master  
Seen 2 remote branches  
> git show-ref --tags -d # timeout=10

Dashboard > capstone > #43

```
using GIT_ASKPASS to set credentials git
> git fetch --tags --force --progress -- https://github.com/jenishan1611/capstone.git +refs/heads/:refs/remotes/origin/* #
timeout=10
Seen branch in repository origin/dev
Seen branch in repository origin/master
Seen 2 remote branches
> git show-ref --tags -d # timeout=10
Checking out Revision 2e43f869aa93408ec1514b7e69c65ee0fc83528f (origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 2e43f869aa93408ec1514b7e69c65ee0fc83528f # timeout=10
Commit message: "Merge pull request #10 from jenishan1611/dev"
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build and Push)
[Pipeline] script
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $GIT_PASSWORD or $DOCKER_TOKEN
[Pipeline] {
[Pipeline] sh
+ docker login -u jenishan1611 -p ****
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
```

← → ↻ ⚠ Not secure | 54.251.160.26:8080/job/capstone/43/console

Dashboard > capstone > #43

```
139c1270acf1: Waiting
4693057ce236: Waiting
1bba629c69e9: Layer already exists
365ccd918307: Layer already exists
139c1270acf1: Layer already exists
4693057ce236: Layer already exists
34758ed56466: Mounted from jenishan1611/dev
9b97add1b0fc: Pushed
f0df62ec40d8: Pushed
latest: digest: sha256:9cbbff4759a6282b35c15a3b4f18697c59c736b655c4357156d774c359968d0a size: 1787
Docker image pushed successfully to Docker Hub for 'master' branch.
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

# Execution steps for production

Dashboard > capstone > #43 > Pipeline Steps

Status

</> Changes

Console Output

Edit Build Information

Delete build '#43'

Polling Log

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Step	Arguments	Status
Start of Pipeline - (3 min 43 sec in block)		✓
node - (3 min 43 sec in block)		⌵ ✓
node block - (3 min 43 sec in block)		✓
stage - (0.77 sec in block)	Declarative: Checkout SCM	⌵ ✓
stage block (Declarative: Checkout SCM) - (0.73 sec in block)		✓
checkout - (0.7 sec in self)		⌵ ✓
withEnv - (3 min 42 sec in block)	GIT_BRANCH, GIT_COMMIT, GIT_PREVIOUS_COMMIT, GIT_PREVIOUS_SUCCESSFUL_COMMIT, GIT_URL	⌵ ✓
withEnv block - (3 min 42 sec in block)		✓
withCredentials - (3 min 42 sec in block)		⌵ ✓
withCredentials block - (3 min 42 sec in block)		✓

Dashboard > capstone > #43 > Pipeline Steps

withEnv - (3 min 42 sec in block)	DOCKER_REPO_PROD, DOCKER_REPO_DEV, DOCKER_USERNAME	⌵ ✓
withEnv block - (3 min 42 sec in block)		✓
stage - (0.92 sec in block)	Checkout	⌵ ✓
stage block (Checkout) - (0.88 sec in block)		✓
script - (0.83 sec in block)		⌵ ✓
script block - (0.8 sec in block)		✓
checkout - (0.77 sec in self)		⌵ ✓
stage - (3 min 41 sec in block)	Build and Push	⌵ ✓
stage block (Build and Push) - (3 min 41 sec in block)		✓
script - (3 min 41 sec in block)		⌵ ✓
script block - (3 min 41 sec in block)		✓
withCredentials - (3 min 41 sec in block)		⌵ ✓
withCredentials block - (3 min 41 sec in block)		✓

withCredentials - (3 min 41 sec in block)		⌵ ✓
withCredentials block - (3 min 41 sec in block)		✓
sh - (2.7 sec in self)	docker login -u jenishan1611 -p \$(DOCKER_TOKEN)	⌵ ✓
echo - (7 ms in self)	Docker login successful.	⌵ ✓
sh - (3 min 38 sec in self)	./deploy.sh	⌵ ✓

# Console output for dev

Dashboard > capstone > #42

```
[Pipeline] sh
+ docker login -u jenishan1611 -p ****
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[Pipeline] echo
Docker login successful.
[Pipeline] sh
+ ./deploy.sh
Branch: origin/dev
Removing capstone_react-app_1 ...
Removing capstone_react-app_1 ... done
Removing network capstone_default
#0 building with "default" instance using docker driver

#1 [internal] load .dockerignore
#1 transferring context: 28 done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 1378 done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/library/node:16-alpine
#3 ...
```

Dashboard > capstone > #42

```
Creating network "capstone_default" with the default driver
Creating capstone_react-app_1 ...
Creating capstone_react-app_1 ... done
Using default tag: latest
The push refers to repository [docker.io/jenishan1611/dev]
3cce0f550880: Preparing
11132ef5d08b: Preparing
34758ed56466: Preparing
365ccd918307: Preparing
1bba629c69e9: Preparing
139c1270acf1: Preparing
4693057ce236: Preparing
139c1270acf1: Waiting
4693057ce236: Waiting
1bba629c69e9: Layer already exists
365ccd918307: Layer already exists
139c1270acf1: Layer already exists
4693057ce236: Layer already exists
34758ed56466: Pushed
11132ef5d08b: Pushed
3cce0f550880: Pushed
latest: digest: sha256:52e36cb542c93d100e13bfb666b779dee8365598dae52414de8118962aaf7a18 size: 1787
Docker image pushed successfully to Docker Hub for 'dev' branch.
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
```

Dashboard > capstone >

Status

</> Changes

► Build Now

⚙️ Configure

🗑️ Delete Pipeline

🔍 Full Stage View

🌐 GitHub

✍️ Rename

❓ Pipeline Syntax

📄 GitHub Hook Log

Build History

trend ▾

Filter builds...

#43  
Nov 15, 2023, 8:14 AM

#42

Pipeline capstone

Add description


Disable Project




Stage View

	Declarative: Checkout SCM	Checkout	Build and Push
Average stage times: (Average full run time: ~1min 51s)	811ms	895ms	1min 7s
#43 Nov 15 13:44 1 commit	749ms	910ms	3min 41s
#42 Nov 15 13:37 1 commit	821ms	928ms	3min 36s
#41 Nov 15 13:30 23 commits	799ms	923ms	20s
#40 Nov 15 13:28 1 commit	798ms	648ms	1min 19s



## Execution steps for dev

**Jenkins**

 1  jenishan  log out

[Dashboard](#) > [capstone](#) > [#42](#) > Pipeline Steps

Status

</> Changes

Console Output

Edit Build Information

Delete build '#42'

Polling Log

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

54.251.160.26:8080/job/capstone/42/execution/node/6/

[Dashboard](#) > [capstone](#) > [#42](#) > Pipeline Steps

Step	Arguments	Status
Start of Pipeline - (3 min 39 sec in block)		✓
node - (3 min 39 sec in block)		✓
node block - (3 min 38 sec in block)		✓
stage - (0.84 sec in block)	Declarative: Checkout SCM	✓
stage block (Declarative: Checkout SCM) - (0.79 sec in block)		✓
checkout - (0.77 sec in self)		✓
withEnv - (3 min 38 sec in block)	GIT_BRANCH, GIT_COMMIT, GIT_PREVIOUS_COMMIT, GIT_PREVIOUS_SUCCESSFUL_COMMIT, GIT_URL	✓
withEnv block - (3 min 38 sec in block)		✓
withCredentials - (3 min 38 sec in block)		✓
withCredentials block - (3 min 37 sec in block)		✓
withEnv - (3 min 37 sec in block)	DOCKER_REPO_PROD, DOCKER_REPO_DEV, DOCKER_USERNAME	✓
withEnv block - (3 min 37 sec in block)		✓
stage - (0.95 sec in block)	Checkout	✓
stage block (Checkout) - (0.9 sec in block)		✓
script - (0.83 sec in block)		✓
script block - (0.78 sec in block)		✓
checkout - (0.75 sec in self)		✓
stage - (3 min 36 sec in block)	Build and Push	✓
stage block (Build and Push) - (3 min 36 sec in block)		✓
script - (3 min 36 sec in block)		✓
script block - (3 min 36 sec in block)		✓
withCredentials - (3 min 36 sec in block)		✓
withCredentials block - (3 min 36 sec in block)		✓
checkout - (0.75 sec in self)		✓
stage - (3 min 36 sec in block)	Build and Push	✓
stage block (Build and Push) - (3 min 36 sec in block)		✓
script - (3 min 36 sec in block)		✓
script block - (3 min 36 sec in block)		✓
withCredentials - (3 min 36 sec in block)		✓
withCredentials block - (3 min 36 sec in block)		✓
sh - (2.7 sec in self)	docker login -u jenishan1611 -p \$(DOCKER_TOKEN)	✓
echo - (11 ms in self)	Docker login successful.	✓
sh - (3 min 33 sec in self)	./deploy.sh	✓

Jenkins 2.414.3

aws

Services

Search

[Alt+S]

Singaporetestbyme

EC2

Security Groups

Create security group

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name

mysecgrp

Name cannot be edited after creation.

Description

can only access form ip

VPC

vpc-0c9a9c0efd1e2b193

Inbound rules

Type

Protocol

Port range

Source

Description - optional

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

Inbound rules

Info

Type

Protocol

Port range

Source

Description - optional

HTTP

TCP

80

Any...

0.0.0.0/0

0.0.0.0/0

Delete

SSH

TCP

22

My IP

112.135.16.223/32

Delete

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Outbound rules

Info

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Services

Search

[Alt+S]

Singaporetestbyme

EC2 Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

sg-04295c44870ec7b92 - mysecgrp

Actions

Details

Security group name

mysecgrp

Security group ID

sg-04295c44870ec7b92

Description

can only access form ip

VPC ID

vpc-0c9a9c0efd1e2b193

Owner

906470070109

Inbound rules count

2 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol
	-	sgr-0eaaa7862a5a1c4b2	IPv4	SSH	TCP
	-	sgr-07fc6603836004b37	IPv4	HTTP	TCP

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Services

Search

[Alt+S]

Singapore

testbyme

▼ Network settings Info

Edit

Network Info

vpc-0c9a9c0efd1e2b193

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Disable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group

☒ Select existing security group

Common security groups Info

Select security groups

mysecgrp sg-04295c44870ec7b92 X

VPC: vpc-0c9a9c0efd1e2b193

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Configure storage Info

Advanced

▼ Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-078c1149d8ad719a7

Virtual server type (instance type)

t2.micro

Firewall (security group)

mysecgrp

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or

Cancel

Launch instance

Review commands

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Services

Search

[Alt+S]

Singapore

testbyme

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

Volumes

Snapshots

Instances (1) Info

Refresh

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	react-deploy...	i-04bd2f3f121fb27a9	Running	t2.micro	-	No alarms	ap-southeast-1b

Select an instance

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Services

Search

[Alt+S]

Singapore

testbyme

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

Volumes

Snapshots

Instances (1) Info

Refresh

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs	Monitoring	Security group name	Key name
ec2-54-169-43-84.ap-s...	54.169.43.84	-	-	disabled	mysecgrp	pavi

Select an instance

CloudShell

Feedback

© 2023, Amazon Web Services, Inc. or its affiliates.

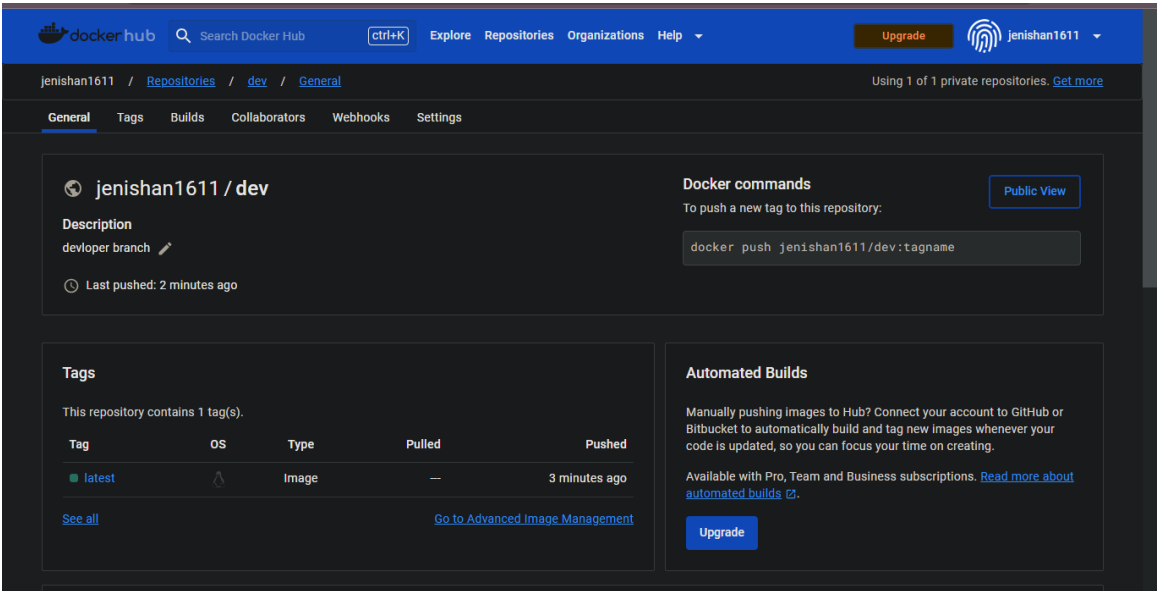
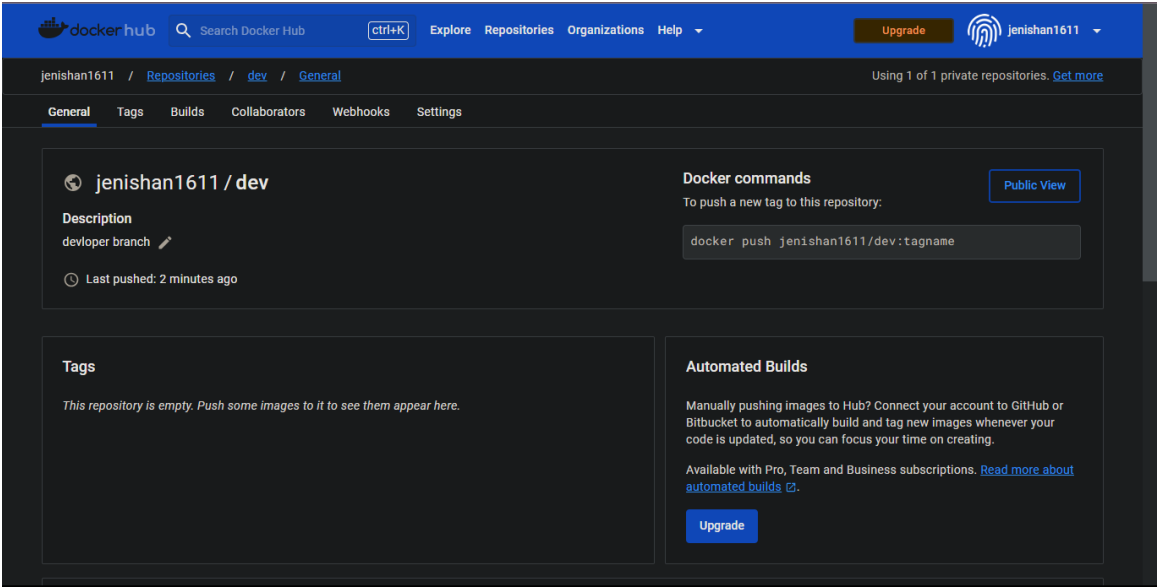
Privacy

Terms

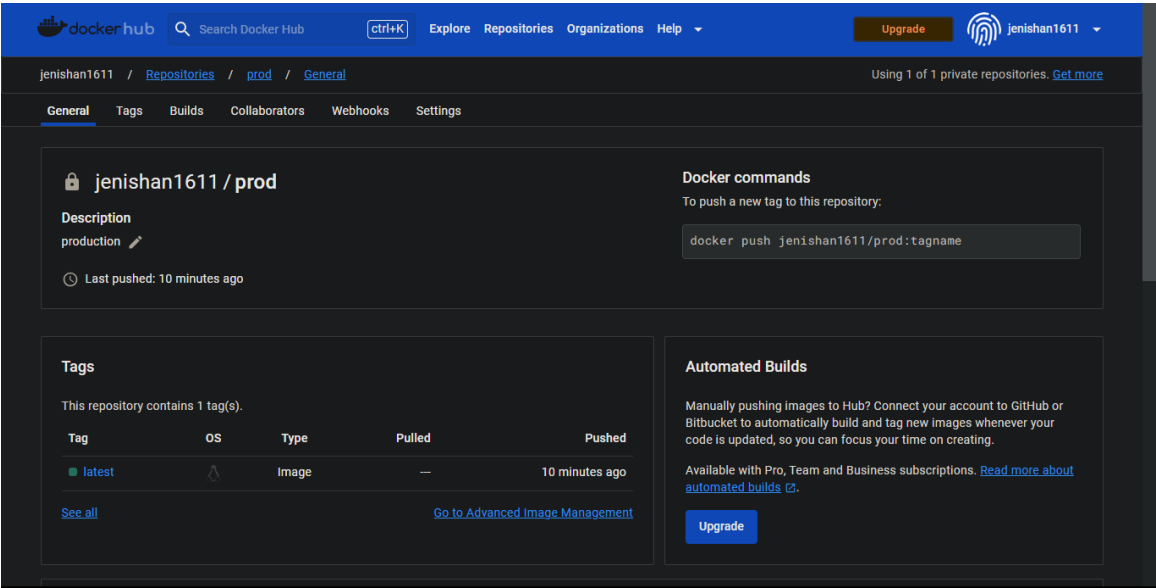
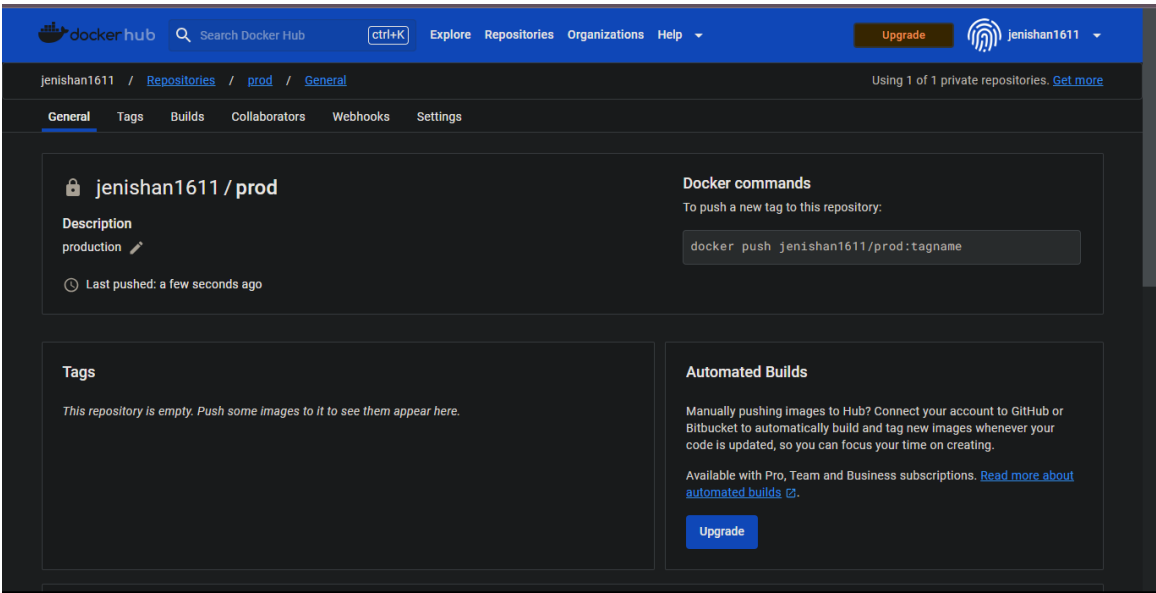
Cookie preferences

# Dockerhub repo

dev repo



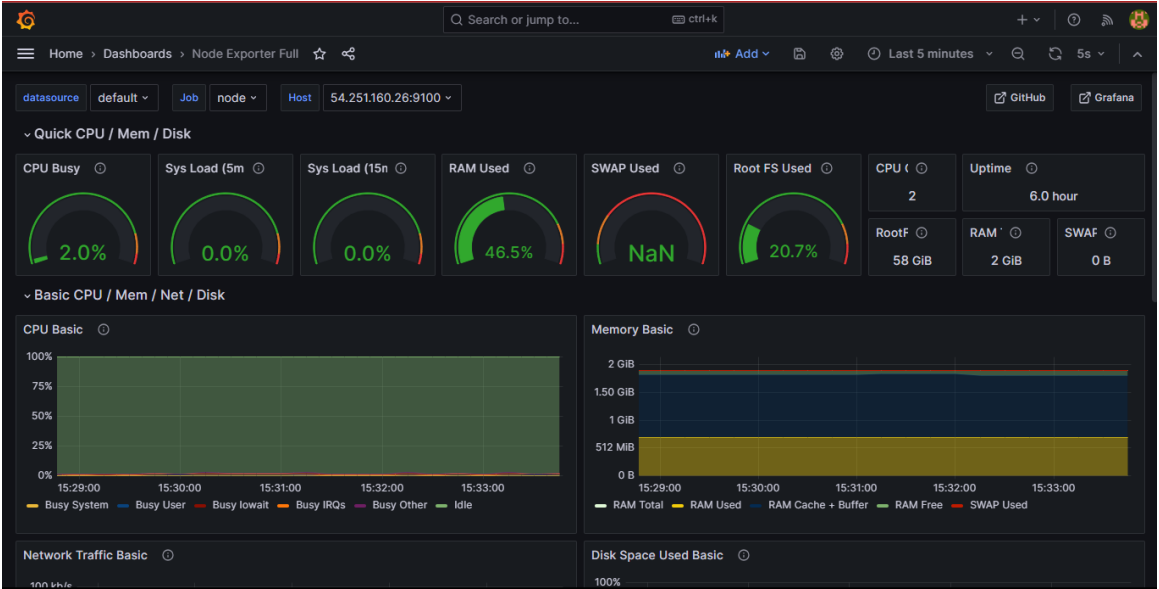
# Production repo



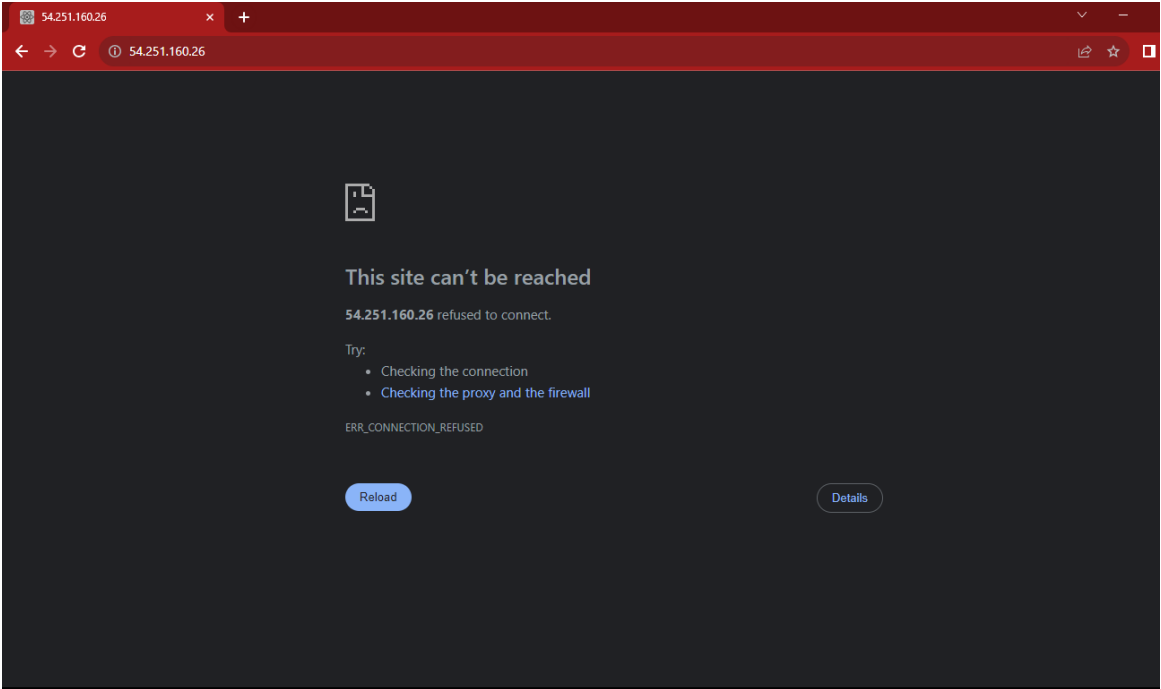
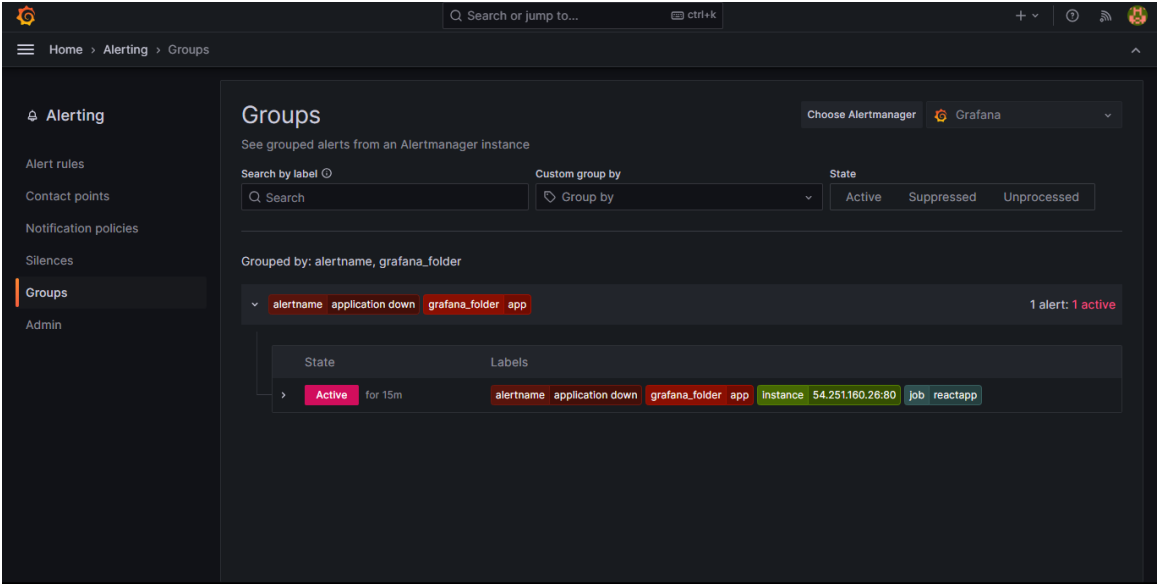
# Deployed site page




# Monitoring



# Notification



4 of 1,219

 **Grafana**

app

 › application down

🔥

 1 firing instances

Firing

application down

View alert

Values

A=0 B=0 C=1

Labels

alertname	application down
grafana_folder	app
instance	<a href="#">54.251.160.26:80</a>
job	reactapp

Silence