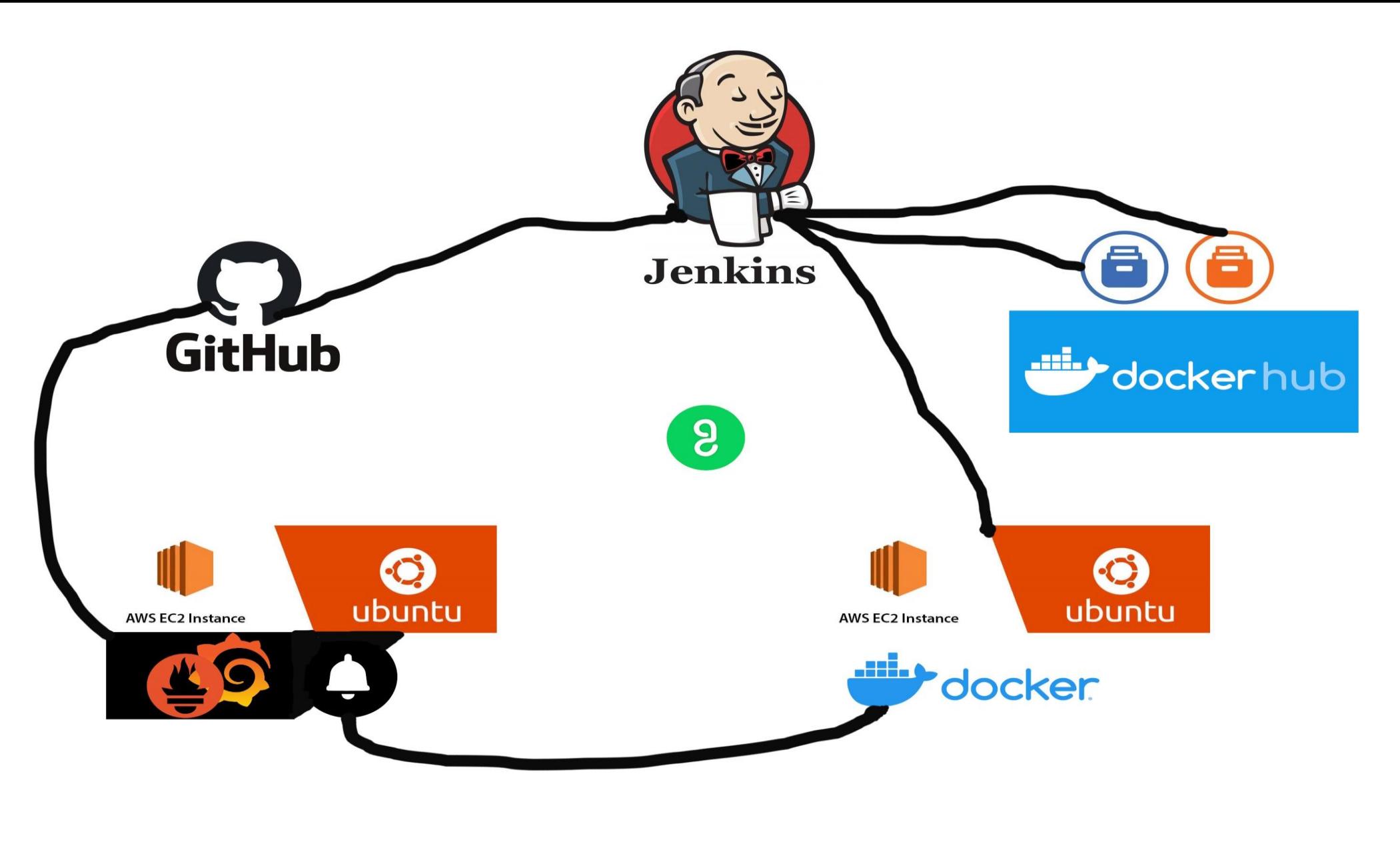


# Application Deployment

REACT APPLICATION PORT 80



# INTRODUCTION

- Containerize a react application
- Git to manage the source code of the application to make it easier to collaborate and version-control changes.
- Implement Infrastructure as Code for automated build, test, and deployment process using Jenkins pipeline
- Implement Continuous Delivery/Deployment by configuring Jenkins to automatically deploy the application to a Docker registry when the build and test phases are successful
- Amazon's Elastic Compute Cloud (EC2) for running applications
- Docker Hub is the world's largest repository of container images with an array of content sources including container community developers, open source projects, and independent software vendors (ISV) building and distributing their code in containers.
- Docker Engine is the underlying client-server technology that supports the tasks and workflows involved in building, shipping and running containerized applications using Docker's components and services.
- Prometheus is an open-source systems monitoring and alerting toolkit
- Grafana open source software enables you to query, visualize, alert on, and explore your metrics, logs, and traces wherever they are stored.

# PRE-REQUISITES

AWS account.

- AWS EC2
- Elastic IP addresses

Github account.

- source code
- webhook

Jenkins.

- pipeline script
- docker plugins
- ssh agent plugin
- credentials

Docker Hub account.

- access token
- Docker Engine

Prometheus.

- node exporter
- alertmanager

# Grafana

# smtp configuration for gmail notification settings

# Two ec2 instance

PRODUCTION-SERVER

MONITORING-SERVER

ELASTIC IP ADDRESSES

Instance details | EC2 Instance Cor... | Prometheus Tim... | Task zen - gokul... | Zen Class | DevOps Applicat... | devops-project/ | jenkins - Google | +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-02f5fe0b1eee17023

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D... N. Virginia gokul

aws Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Load Balancing Load Balancers

EC2 > Instances > i-02f5fe0b1eee17023

### Instance summary for i-02f5fe0b1eee17023 (production-server) [Info](#)

Updated less than a minute ago

Category	Value	Actions
Instance ID	i-02f5fe0b1eee17023 (production-server)	<a href="#">Copy</a>
IPv6 address	-	
Hostname type	IP name: ip-172-31-39-170.ec2.internal	
Answer private resource DNS name	IPv4 (A)	
Auto-assigned IP address	-	
IAM Role	-	
IMDSv2	Required	
Public IPv4 address	3.214.210.231 <a href="#">open address</a>	<a href="#">Copy</a>
Instance state	Running	<a href="#">Connect</a>
Private IP DNS name (IPv4 only)	ip-172-31-39-170.ec2.internal	
Instance type	t2.micro	
VPC ID	vpc-05fbffcb1fb9c1a33	<a href="#">Copy</a>
Subnet ID	subnet-05e5473c1aab78b44	<a href="#">Copy</a>
Private IPv4 addresses	172.31.39.170	
Public IPv4 DNS	ec2-3-214-210-231.compute-1.amazonaws.com <a href="#">open address</a>	<a href="#">Copy</a>
Elastic IP addresses	3.214.210.231 [Public IP]	<a href="#">Copy</a>
AWS Compute Optimizer finding	<a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>   Learn more	
Auto Scaling Group name	-	

Details Status and alarms New Monitoring Security Networking Storage Tags

▶ Instance details [Info](#)  
▼ Host and placement group [Info](#)

CloudShell Feedback

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0104b7acff3ae9a33

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EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Load Balancing Load Balancers

EC2 Instances i-0104b7acff3ae9a33

Instance summary for i-0104b7acff3ae9a33 (monitoring-server) [Info](#)  
Updated less than a minute ago

C Connect Instance state Actions

Instance ID <a href="#">i-0104b7acff3ae9a33 (monitoring-server)</a>	Public IPv4 address <a href="#">52.22.19.194 [open address]</a>	Private IPv4 addresses <a href="#">172.31.28.184</a>
IPv6 address -	Instance state <a href="#">Running</a>	Public IPv4 DNS <a href="#">ec2-52-22-19-194.compute-1.amazonaws.com [open address]</a>
Hostname type IP name: ip-172-31-28-184.ec2.internal	Private IP DNS name (IPv4 only) <a href="#">ip-172-31-28-184.ec2.internal</a>	Elastic IP addresses <a href="#">52.22.19.194 [Public IP]</a>
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>   Learn more
Auto-assigned IP address -	VPC ID <a href="#">vpc-05fbffcb1fb9c1a33</a>	Auto Scaling Group name -
IAM Role -	Subnet ID <a href="#">subnet-0db741e4ae2aa588b</a>	
IMDSv2 Required		

Details Status and alarms New Monitoring Security Networking Storage Tags

▶ Instance details [Info](#)  
▼ Host and placement group [Info](#)

# Github

SOURCE CODE

BRANCHES MAIN & DEV

EXPLORER ... PROBLEMS OUTPUT DEBUG CONSOLE

SIVATHAMIL [WSL: UBUNTU] TERMINAL

sivathamil@sivathamil:~/project-zen\$ ssh -i "zen-project.pem" ubuntu@ec2-52-87-239-166.compute-1.amazonaws.com  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1018-aws x86\_64)  
  
\* Documentation: <https://help.ubuntu.com>  
\* Management: <https://landscape.canonical.com>  
\* Support: <https://ubuntu.com/pro>  
  
System information as of Tue Mar 12 17:22:29 UTC 2024  
  
System load: 0.0 Processes: 107  
Usage of /: 50.4% of 7.57GB Users logged in: 1  
Memory usage: 69% IPv4 address for docker0: 172.17.0.1  
Swap usage: 0% IPv4 address for eth0: 172.31.95.131  
  
\* Ubuntu Pro delivers the most comprehensive open source security and compliance features.  
  
<https://ubuntu.com/aws/pro>  
  
Expanded Security Maintenance for Applications is not enabled.  
  
17 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: sudo pro status  
  
\*\*\* System restart required \*\*\*  
Last login: Tue Mar 12 16:04:37 2024 from 49.204.137.120  
ubuntu@ip-172-31-95-131:~\$ clone https://github.com/gokulsm1197/devops-project.git  
Command 'clone' not found, did you mean:  
  command 'rclone' from snap rclone (1.65.2)  
  command 'rclone' from deb rclone (1.53.3-4ubuntu1.22.04.2)  
See 'snap info <snapname>' for additional versions.  
ubuntu@ip-172-31-95-131:~\$ git clone https://github.com/gokulsm1197/devops-project.git  
Cloning into 'devops-project'...  
remote: Enumerating objects: 21, done.  
remote: Counting objects: 100% (1/1), done.  
remote: Total 21 (delta 0), reused 0 (delta 0), pack-reused 20  
Receiving objects: 100% (21/21), 720.09 KiB | 15.32 MiB/s, done.  
ubuntu@ip-172-31-95-131:~\$ ls  
devops-project  
ubuntu@ip-172-31-95-131:~\$

github.com/gokulsm1197/devops-project/tree/dev

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gokulsm1197 / devops-project

Type ⌂ to search

Code Pull requests Actions Projects Wiki Security Insights Settings

devops-project Public

forked from [sriram-R-krishnan/devops-build](#)

Pin Watch 0 Fork 0 Star 0

dev 2 Branches 0 Tags Go to file Add file Code Contribute Sync fork

This branch is 25 commits ahead of [sriram-R-krishnan/devops-build:main](#).

gokulsm1197 Dockerfile	b0d067e · 5 hours ago	26 Commits
build	Add files via upload	2 months ago
.dockerignore	.dockerignore	2 days ago
.gitignore	.gitignore	2 days ago
Dockerfile	Dockerfile	2 days ago
Jenkinsfile	Jenkinsfile	2 days ago
build.sh	build.sh	2 days ago
deploy.sh	deploy.sh	2 days ago
docker-compose.yml	docker-compose.yml	2 days ago
ssh-pipeline-script	ssh-pipeline-script	yesterday

About task-zen

- Activity
- 0 stars
- 0 watching
- 0 forks

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

Languages

HTML 90.6% Dockerfile 9.4%

Suggested workflows

Type here to search

26°C Mostly sunny 07:42 19-03-2024 ENG PRE

github.com/gokulsm1197/devops-project/tree/main

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gokulsm1197 / devops-project

Type  to search

Code Pull requests Actions Projects Wiki Security Insights Settings

devops-project Public  
forked from [sriram-R-krishnan/devops-build](#)

[Pin](#) [Watch 0](#) [Fork 0](#) [Star 0](#)

[main](#) [2 Branches](#) [0 Tags](#)

Go to file

Add file

Code

About

This branch is 56 commits ahead of [sriram-R-krishnan/devops-build:main](#).

Contribute

Sync fork

 gokulsm1197 ssh-agent-pipline

db2a29d · yesterday  57 Commits

 build

Add files via upload

2 months ago

 Dockerfile

Dockerfile

3 days ago

 Jenkinsfile

Jenkinsfile

2 days ago

 README



## Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

### task-zen

Activity

0 stars

0 watching

0 forks

### Releases

No releases published

[Create a new release](#)

### Packages

No packages published

[Publish your first package](#)

### Languages

HTML 90.6% Dockerfile 9.4%

### Suggested workflows



Type here to search



Github webhook  
Jenkins

IP ADDRESS

Instance de | EC2 Instant | Prometheus | Task zen - | Zen Class | DevOps Ap... | devops-pr... | gokulsm11 | access tok... | System Je... +

Not secure 3.214.210.231:8080/manage/configure

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D... »

Dashboard > Manage Jenkins > System >

## GitHub

GitHub Servers ?

Add GitHub Server ▾

### By default

This plugin doesn't do anything with the GitHub API unless you add a configuration with credentials. So if you don't want to add any configuration, you can set up hooks for this Jenkins instance manually.

In this mode, in addition to configuring projects with "*GitHub hook trigger for GITScm polling*", you need to ensure that Jenkins gets a POST to its <http://3.214.210.231:8080/github-webhook/>.

### If you set up credentials

In this mode, Jenkins will add/remove hook URLs to GitHub based on the project configuration. Jenkins has a single post-commit hook URL for all the repositories, and this URL will be added to all the GitHub repositories Jenkins is interested in. You should provide credentials with scope **admin:repo\_hook** for every repository which should be managed by Jenkins. It needs to read the current list of hooks, create new hooks and remove old hooks.

The Hook URL is <http://3.214.210.231:8080/github-webhook/>, and it needs to be accessible from the internet. If you have a firewall and such between GitHub and Jenkins, you can set up a reverse proxy and override the hook URL that Jenkins registers to GitHub, by checking "override hook URL" in the advanced configuration and specify to which URL GitHub should POST.

(from [GitHub plugin](#))

Save Apply

## Webhooks / Manage webhook

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

**Payload URL \***  
http://3.214.210.231:8080/github-webhook/

**Content type**  
application/x-www-form-urlencoded

**Secret**

**Which events would you like to trigger this webhook?**

Just the push event.  
 Send me everything.  
 Let me select individual events.

**Active**  
We will deliver event details when this hook is triggered.

**Update webhook** **Delete webhook**

The left sidebar shows the following sections:

- General
- Access
  - Collaborators
  - Moderation options
- Code and automation
  - Branches
  - Tags
  - Rules
  - Actions
  - Webhooks** (selected)
  - Environments
  - Codespaces
  - Pages
- Security
  - Code security and analysis
  - Deploy keys
  - Secrets and variables
- Integrations
  - GitHub Apps
  - Email notifications



github.com/gokulsm1197/devops-project/settings/hooks

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gokulsm1197 / devops-project

Type  to search | > | + | ○ | ⓘ | 📁 | 🗂 | 🔍 | ⚙ | 🌐 | 🎨

Code Pull requests Actions Projects Wiki Security Insights Settings

## Webhooks

Add webhook

Access Collaborators Moderation options

Code and automation Branches Tags Rules Actions

Webhooks

Environments Codespaces Pages

Security Code security and analysis Deploy keys Secrets and variables

Integrations

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓ <http://3.214.210.231:8080/github-w...> (push) Edit Delete

Type here to search

26°C Mostly sunny 08:31 ENG 19-03-2024 PRE

# Jenkins

**Pipeline Script**

**Docker Plugins**

**SSH Agent Plugin**

**Credentials**

**PORT:8080**

Installation step reference : [jenkins. io](http://jenkins.io)

Not secure 3.214.210.231:8080

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D... »

# Jenkins

Search (CTRL+K) ?

Dashboard >

+ New Item Add description

People All +

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue ^

Build Executor Status ▾

Icon: S M L

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀️	demo	2 days 3 hr #29	2 days 8 hr #19	1.8 sec
✓	☀️	docker-hub-dev	6 hr 41 min #14	2 days 4 hr #4	15 sec
✓	☀️	docker-hub-prod	1 day 7 hr #53	2 days 5 hr #40	6 sec
✓	☀️	production-project-server-dev	6 hr 41 min #27	2 days 6 hr #15	6.9 sec

1 Idle

2 Idle



Search (CTRL+K)



1



gokulsm

log out

Dashboard > Manage Jenkins > Plugins

## Plugins

docker

Updates

Available plugins

Installed plugins

Advanced settings

Name ↓

Enabled

Docker API Plugin 3.3.4-86.v39b\_a\_5ede342c

This plugin provides [docker-java](#) API for other plugins.

[Report an issue with this plugin](#)



This plugin is up for adoption! We are looking for new maintainers. Visit our [Adopt a Plugin](#) initiative for more information.

Docker Commons Plugin 439.va\_3cb\_0a\_6a\_fb\_29

Provides the common shared functionality for various Docker-related plugins.

[Report an issue with this plugin](#)



Docker plugin 1.6

This plugin integrates Jenkins with [Docker](#)

[Report an issue with this plugin](#)



REST API

Jenkins 2.440.1



Type here to search



27°C Mostly sunny

09:09  
19-03-2024



## Plugins

Updates

Available plugins

Installed plugins

Advanced settings

ssh age

Name ↓

Enabled

[SSH Agent Plugin](#) 346.vda\_a\_c4f2c8e50

This plugin allows you to provide SSH credentials to builds via a ssh-agent in Jenkins.

[Report an issue with this plugin](#)



[SSH Build Agents plugin](#) 2.948.vb\_8050d697fec

Allows to launch agents over SSH, using a Java implementation of the SSH protocol.

[Report an issue with this plugin](#)



[SSH Credentials Plugin](#) 322.v124df57ed808

Allows storage of SSH credentials in Jenkins

[Report an issue with this plugin](#)



REST API

Jenkins 2.440.1



Instance | EC2 Inst. | Prometheus | Task zen | Zen Clas | DevOps | devops- | Webhook | docker p | Jenkins | install st | +

Not secure 3.214.210.231:8080/manage/credentials/

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D...

# Jenkins

Search (CTRL+K) ? ! 1 gokulsm log out

Dashboard > Manage Jenkins > Credentials

## Credentials

T	P	Store ↓	Domain	ID	Name
		System	(global)	ssh-agent	ubuntu (ssh-agent)
		System	(global)	dockerhub	gokulsm/***** (dockerhub)
		System	(global)	ssh-agent-sm	ubuntu (ssh-agent-sm)

## Stores scoped to Jenkins

P	Store ↓	Domains
	System	(global)

Icon: S M L

# Docker Hub

ACCESS TOKEN

REPOSITORY PRIVATE &  
PUBLIC

AWS Skill Builder | Docker Hub | GitHub | Projects - sivathamil | ChatGPT | main.py - band-na... | Auditorium | hkhcoder/vprofile-p... | Zen Class | Course: The Comple... | <footer>: The Footer... | Color Palettes for D...

 [dockerhub](#) Explore Repositories Organizations  ctrl+K ?  

[Account Settings](#) / [Security](#)



**gokulsm**

 user  Joined January 5, 2024

General

**Security**

Default Privacy

Notifications

Convert Account

Deactivate Account

### Access Tokens

New Access Token

<input type="checkbox"/>	Description	Source	Scope	Last Used	Created	⋮
<input type="checkbox"/>	jenkins	MANUAL	Read, Write, Delete	Mar 19, 2024 02:26:18	Mar 16, 2024 04:31:21	
<input type="checkbox"/>	pull	MANUAL	Read, Write, Delete	Never	Jan 05, 2024 10:43:26	
<input type="checkbox"/>	pull	MANUAL	Read, Write, Delete	Never	Jan 05, 2024 10:27:54	



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**Docker Hub** Explore **Repositories** Organizations **Search Docker Hub** **ctrl+K** ? G

gokulsm

Search by repository name



All Content

Search Docker Hub

ctrl+K



gokulsm / dev

Contains: Image • Last pushed: about 7 hours ago

Security unknown

0

15

Public

gokulsm / prod

Contains: Image • Last pushed: 1 day ago

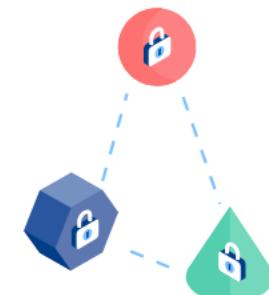
Security unknown

0

0

Private

Create repository



## Create An Organization

Create and manage users and grant access to your repositories.



# Jenkins Pipeline Push to Docker Hub

PIPELINE SCRIPT  
CREDENTIALS ACCESS TOKEN  
REPOSITORY PRIVATE & PUBLIC

## Jenkinsfile-public-DEV

```
pipeline {
    agent any
    environment {
        DOCKERHUB_CREDENTIALS = credentials('dockerhub')
    }
    stages {

        stage('Build docker image') {
            steps {
                sh 'docker build -t gokulsm/dev:$BUILD_NUMBER .'
            }
        }
        stage('login to dockerhub') {
            steps{
                sh 'echo $DOCKERHUB_CREDENTIALS_PSW | docker login -u $DOCKERHUB_CREDENTIALS_USR --password-stdin'
            }
        }
        stage('push image') {
            steps{
                sh 'docker push gokulsm/dev:$BUILD_NUMBER'
            }
        }
    }
    post {
        always{
            sh 'docker logout'
        }
    }
}
```

## Jenkinsfile- Private-PROD

```
pipeline {
    agent any
    environment{
        DOCKERHUB_CREDENTIALS = credentials('dockerhub')
    }
    stages{
        stage('Build docker image'){
            steps{
                sh 'docker build -t gokulsm/prod:$BUILD_NUMBER .'
            }
        }
        stage('login to dockerhub'){
            steps{
                sh 'echo $DOCKERHUB_CREDENTIALS_PSW | docker login -u $DOCKERHUB_CREDENTIALS_USR --password-stdin'
            }
        }
        stage('push image'){
            steps{
                sh 'docker push gokulsm/prod:$BUILD_NUMBER'
            }
        }
    }
    post{
        always{
            sh 'docker logout'
        }
    }
}
```

## **Both Dockerfile**

```
FROM nginx:latest
COPY ./build /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

# **BUILD FILE IN REACT ON GITHUB REPOSITORY**

# Pipeline Configuration

DOCKER HUB

REPOSITORY DEV & PROD

 Update

 Delete

 Move

## gokulsm/\*\*\*\*\* (dockerhub)

dockerhub

### Usage

This credential has been recorded as used in the following places:

*Note: usage tracking requires the cooperation of plugins and consequently may not track every use.*

<a href="#">docker-hub-dev</a>	 #1	 #14
<a href="#">docker-hub-prod</a>	 #33	 #53

Dashboard > All >

Enter an item name

> This field cannot be empty, please enter a valid name

**Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

**Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

**Multibranch Pipeline**  
Creates a set of Pipeline projects according to detected branches in one SCM repository.

**Organization Folder**  
Creates a set of multibranch project subfolders by scanning for repositories.

If you want to create a new item from other existing, you can use this option:

**Copy from**  
Type to autocomplete

OK

# Jenkins

Dashboard > docker-hub-dev > Configuration

## Configure General

Description

Plain text [Preview](#)

Discard old builds [?](#)

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Delivery Pipeline configuration

Pipeline speed/durability override [?](#)

Preserve stashes from completed builds [?](#)

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 [▼](#)

### Pipeline

[Save](#) [Apply](#)

Type here to search

10:33 19-03-2024

A screenshot of a Jenkins pipeline configuration page. The URL in the browser is `3.214.210.231:8080/job/docker-hub-prod/configure`. The page shows the 'Pipeline' tab selected under 'Configure'.

**Definition:** Pipeline script from SCM

**SCM:** Git

**Repositories:**

- Repository URL: `https://github.com/gokulsm1197/devops-project.git`
- Credentials: - none -
- Advanced

**Add Repository**

**Branches to build:**

Branch Specifier (blank for 'any'): `*/main`

**Additional Behaviours:**

**Script Path:** Jenkinsfile

**Lightweight checkout:**

**Pipeline Syntax:**

**Buttons:** Save, Apply

**Page Footer:**

Type here to search

29°C Haze 10:32 19-03-2024 ENG

Instance | EC2 Ins | Prometheus | Task ze | Zen Cl | DevOp | devop | Webhc | build f | docker | both o | Docker | +

Not secure 3.214.210.231:8080/job/docker-hub-prod/

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Jenkins

Dashboard > docker-hub-prod >

Status docker-hub-prod

Changes dockerhub-project

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

GitHub Hook Log

Build History trend

Filter...

#53 Mar 17, 2024, 7:56 PM

#52 Mar 17, 2024, 7:48 PM

#51 Mar 17, 2024, 7:26 PM

#50 Mar 17, 2024, 12:17 AM

#49 Mar 17, 2024, 12:09 AM

#48 Mar 17, 2024, 12:03 AM

#47 Mar 16, 2024, 11:53 PM

#46 Mar 16, 2024, 11:42 PM

#45 Mar 16, 2024, 11:38 PM

#44 Mar 16, 2024, 11:28 PM

#43 Mar 16, 2024, 10:57 PM

#42 Mar 16, 2024, 10:57 PM

#41 Mar 16, 2024, 10:55 PM

#40

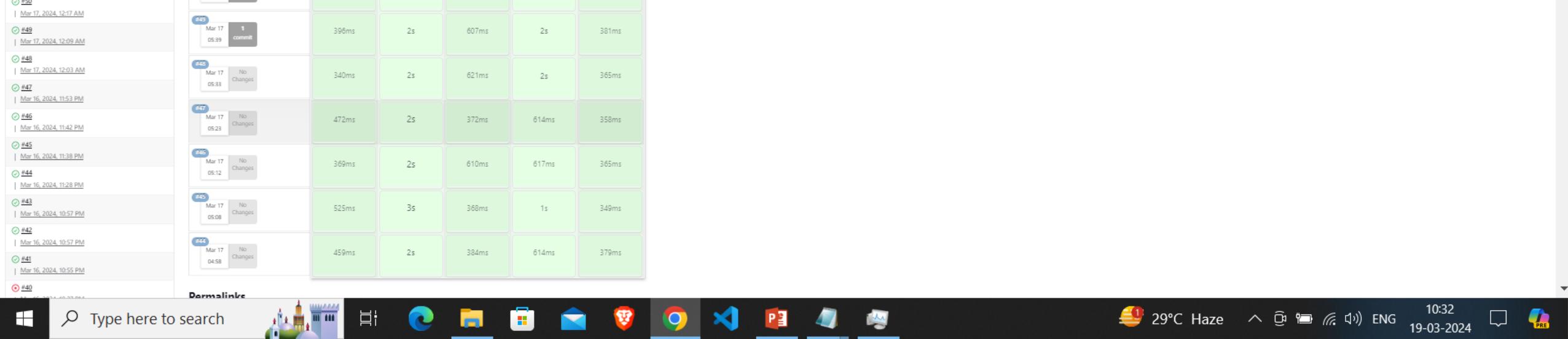
Stage View

Average stage times: (Average full run time: ~7s)

	Declarative: Checkout SCM	Build docker image	login to dockerhub	push image	Declarative: Post Actions
#53 Mar 18 01:26 1 commit	477ms	2s	452ms	1s	382ms
#52 Mar 18 01:18 1 commit	467ms	2s	404ms	869ms	361ms
#51 Mar 18 24:56 No Changes	753ms	2s	423ms	924ms	440ms
#50 Mar 17 05:47 1 commit	463ms	3s	366ms	2s	397ms
#49 Mar 17 05:39 1 commit	396ms	2s	607ms	2s	381ms
#48 Mar 17 05:33 No Changes	340ms	2s	621ms	2s	365ms
#47 Mar 17 05:23 No Changes	472ms	2s	372ms	614ms	358ms
#46 Mar 17 05:12 No Changes	369ms	2s	610ms	617ms	365ms
#45 Mar 17 05:08 No Changes	525ms	3s	368ms	1s	349ms
#44 Mar 17 04:58 No Changes	459ms	2s	384ms	614ms	379ms

Edit description

Disable Project



A screenshot of a Jenkins configuration interface for a pipeline job named "docker-hub-dev". The job is set to run on the "Configure" screen.

**Pipeline Script:** Pipeline script from SCM

**SCM:** Git

**Repositories:**

- Repository URL: <https://github.com/gokulsm1197/devops-project.git>
- Credentials: - none -
- Advanced

**Branches to build:**

- Branch Specifier (blank for 'any'): \*/dev
- Add Branch

**Repository browser:** (Auto)

**Additional Behaviours:**

- Add

**Script Path:** Jenkinsfile

**Lightweight checkout:**

**Pipeline Syntax:** Pipeline Syntax

**Buttons:** Save, Apply

**Page Header:** Not secure 3.214.210.231:8080/job/docker-hub-dev/configure

**Page Footer:** Type here to search 29°C Haze 10:29 ENG 19-03-2024

Not secure 3.214.210.231:8080/job/docker-hub-dev/

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Jenkins

Dashboard > docker-hub-dev >

Status docker-hub-dev dev

Changes Build Now Configure Delete Pipeline Full Stage View Rename Pipeline Syntax GitHub Hook Log

Stage View

Average stage times: (Average full run time: ~8s)

	Declarative: Checkout SCM	Build docker image	login to dockerhub	push image	Declarative: Post Actions
#14 Mar 19 02:26	No Changes	589ms	2s	479ms	789ms
#13 Mar 19 01:26	No Changes	853ms	3s	432ms	695ms
#12 Mar 18 23:16	No Changes	557ms	2s	399ms	665ms
#11 Mar 18 22:58	No Changes	930ms	3s	453ms	674ms
#10 Mar 18 01:27	No Changes	428ms	1s	908ms	858ms
#9 Mar 18 01:23	1 commit	492ms	3s	389ms	636ms
#8 Mar 18 24:58	No Changes	393ms	2s	393ms	900ms
#7 Mar 18 24:57	No Changes	470ms	2s	643ms	631ms
#6 Mar 18 05:00	No Changes	474ms	1s	371ms	611ms
#5 Mar 17 04:34	1 commit	418ms	1s	379ms	1s
#4 Mar 17 04:33	No Changes	403ms	1s	378ms	361ms

Build History trend Filter... #14 Mar 18, 2024, 8:56 PM #13 Mar 18, 2024, 7:56 PM #12 Mar 18, 2024, 5:46 PM #11 Mar 18, 2024, 5:28 PM #10 Mar 17, 2024, 7:57 PM #9 Mar 17, 2024, 7:53 PM #8 Mar 17, 2024, 7:28 PM #7 Mar 17, 2024, 7:27 PM #6 Mar 16, 2024, 11:30 PM #5 Mar 16, 2024, 11:04 PM #4 Mar 16, 2024, 11:01 PM #3 Mar 16, 2024, 10:32 PM #2 Mar 16, 2024, 9:32 PM #1 Mar 16, 2024, 9:32 PM

Permalink

# **Production-Server ec2 Instance Pipeline Configuration Jenkins**

**ELASTIC IP ADDRESSES**

**DOCKER ENGINE INSTALL**

**NODE EXPORTER PORT :9100**

**SSH KEYGEN**

**DEPLOY.SH FILE**

**SECURITY GROUPS**

Instance EC2 Instances Prometheus Task ze Zen Class DevOp devop Webhook security System pipeline Docker

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-02f5fe0b1eee17023

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aws Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Load Balancing Load Balancers

EC2 Instances i-02f5fe0b1eee17023

Instance summary for i-02f5fe0b1eee17023 (production-server) Info Updated less than a minute ago

C Connect Instance state Actions

Instance ID	i-02f5fe0b1eee17023 (production-server)	Public IPv4 address	3.214.210.231 [open address]
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-172-31-39-170.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-39-170.ec2.internal
Answer private resource DNS name	IPv4 (A)	Instance type	t2.micro
Auto-assigned IP address	-	VPC ID	vpc-05fbffcb1fb9c1a33
IAM Role	-	Subnet ID	subnet-05e5473c1aab78b44
IMDSv2	Required		

Details Status and alarms New Monitoring Security Networking Storage Tags

Instance details Host and placement group

CloudShell Feedback

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32°C Sunny 12:05 19-03-2024 ENG

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ElasticIpDetails:AllocationId=eipalloc-03db9318b283e6e4b

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EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Load Balancing Load Balancers

EC2 > Elastic IP addresses > 3.214.210.231

# 3.214.210.231

Actions Associate Elastic IP address

### Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
3.214.210.231	Public IP	eipalloc-03db9318b283e6e4b	-
Association ID	Scope	Associated instance ID	Private IP address
eipassoc-0ed2608d816e47e86	VPC	i-02f5fe0b1eee17023	172.31.39.170
Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID
eni-066f8ac5a858dc588	488546547125	ec2-3-214-210-231.compute-1.amazonaws.com	-
Address pool	Network border group		
Amazon	us-east-1		

### Tags(0)

Manage tags

Key	Value
No tags associated with this resource	
Click the Manage tags button to add your first tag	

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# Docker Engine

ubuntu@ip-172-31-39-170:~\$

```
ubuntu@ip-172-31-39-170:~$ systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2024-03-19 07:32:52 UTC; 1min 47s ago
     TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
   Main PID: 4798 (dockerd)
      Tasks: 7
     Memory: 41.8M
        CPU: 306ms
      CGroup: /system.slice/docker.service
              └─4798 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Mar 19 07:32:50 ip-172-31-39-170 systemd[1]: Starting Docker Application Container Engine...
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.399856363Z" level=info msg="Starting up"
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.409812525Z" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using resolv.conf: /etc/resolv.conf"
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.618229476Z" level=info msg="Loading containers: start."
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.833842659Z" level=info msg="Default bridge (docker0) is assigned with an IP address 172.17.0.0/16. Daemon opti...
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.888922068Z" level=info msg="Loading containers: done."
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.924597382Z" level=info msg="Docker daemon" commit=061aa95 containerd-snapshotter=false storage-driver=overlay2
Mar 19 07:32:51 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:51.925921928Z" level=info msg="Daemon has completed initialization"
Mar 19 07:32:52 ip-172-31-39-170 dockerd[4798]: time="2024-03-19T07:32:52.000620905Z" level=info msg="API listen on /run/docker.sock"
Mar 19 07:32:52 ip-172-31-39-170 systemd[1]: Started Docker Application Container Engine.
lines 1-22/22 (END)
```

ubuntu@ip-172-31-39-170:~\$ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu				

ubuntu@ip-172-31-39-170:~\$ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						
ubuntu@ip-172-31-39-170:~\$						

node exporter port :9100

Insta X EC2 II X EC2 II X Prom X Task X Zen C X DevC X devo X WebI X secur X Syste X Google syste X Dock X +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02f5fe0b1eee17023&osUser=ubuntu&sshPort=22#/

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aws Services Search [Alt+S]

```
sudo systemctl status node-exporter^C
ubuntu@ip-172-31-39-170:~$ sudo systemctl status node-exporter
● node-exporter.service - Prometheus Node Exporter Service
   Loaded: loaded (/etc/systemd/system/node-exporter.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2024-03-19 01:42:05 UTC; 4h 58min ago
     Main PID: 363 (node_exporter)
        Tasks: 4 (limit: 1121)
       Memory: 18.0M
          CPU: 17.704s
        CGroup: /system.slice/node-exporter.service
                  └─363 /usr/local/bin/node_exporter

Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=thermal_zone
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=time
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=timex
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=udp_queues
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=uname
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=vmstat
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=xfs
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:112 collector=zfs
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=node_exporter.go:191 msg="Listening on" address=:9100
Mar 19 01:42:05 ip-172-31-39-170 node_exporter[363]: level=info ts=2024-03-19T01:42:05.826Z caller=tls_config.go:170 msg="TLS is disabled and it cannot be enabled on the fly." http2=fal
lines 1-20/20 (END)
ubuntu@ip-172-31-39-170:~$
```

i-02f5fe0b1eee17023 (production-server)

PublicIPs: 3.214.210.231 PrivateIPs: 172.31.39.170





```
# HELP go_gc_duration_seconds A summary of the pause duration of garbage collection cycles.
# TYPE go_gc_duration_seconds summary
go_gc_duration_seconds{quantile="0"} 9.356e-06
go_gc_duration_seconds{quantile="0.25"} 1.0131e-05
go_gc_duration_seconds{quantile="0.5"} 1.0598e-05
go_gc_duration_seconds{quantile="0.75"} 1.118e-05
go_gc_duration_seconds{quantile="1"} 7.4571e-05
go_gc_duration_seconds_sum 0.008495978
go_gc_duration_seconds_count 637
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 10
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.14.4"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 1.915424e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 1.51266676e+09
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.594239e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 1.6906876e+07
# HELP go_memstats_gc_cpu_fraction The fraction of this program's available CPU time used by the GC since the program started.
# TYPE go_memstats_gc_cpu_fraction gauge
go_memstats_gc_cpu_fraction 4.237149035008264e-05
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 3.574024e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and still in use.
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 1.915424e+06
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 6.3545344e+07
# HELP go_memstats_heap_inuse_bytes Number of heap bytes that are in use.
# TYPE go_memstats_heap_inuse_bytes gauge
go_memstats_heap_inuse_bytes 3.203072e+06
# HELP go_memstats_heap_objects Number of allocated objects.
# TYPE go_memstats_heap_objects gauge
go_memstats_heap_objects 9166
# HELP go_memstats_heap_size Total size of heap memory.
```



# Pipeline Configuration Jenkins

ssh keygen  
credentials  
**Build Triggers**  
pipeline script

Instant EC In Prom Task Zen DevOp devop Webhook security System system Docker Get St Install ChatG +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02f5fe0b1eee17023&osUser=ubuntu&sshPort=22#/

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aws Services Search [Alt+S]

```
command 'ssh-keygen' from deb openssh-client (1:8.9p1-3ubuntu0.4)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-39-170:~$ cd .ssh
ubuntu@ip-172-31-39-170:~/ssh$ ls
authorized_keys id_rsa id_rsa.pub
ubuntu@ip-172-31-39-170:~/ssh$ cat id_rsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnNzaC1rZXktbjEAAAAABG5vbMUAQAAEbm9uZQAAAAAAAAAAAABAA1wAAAAAdzc2gtcn
NhAAAAAwEAQAAAYEA0FV47XxqOgS2MiTtatbnRa9ECFbwAtz6YQdFuNI2pVf6wJ13oWZV
5gVPyUyBv/6tUZFa387/9U5xISfc0Lg/xZ/GAVB1Y5Rw1EVfxz/qEhx81ISIylgTscoop/
A5B94T1AIcZocEc+I3+FdZYGHWhO+XF696Ezw7TDBFpgup7byCgj9wASCYamOZxsyncLiQe
+vgMwdvTSn1zGUZldXkAwfoaD5RbMCK09RwSisIuK4QGSMd9Tzwn0yN+5x9BtNw5PNvdr
rOUs36jbtLoka82p9vxwPm/s61y7Da3bhh6i6ukMTvEf2zLiyHxM208NXeSzvEPUMKzjXF
ZXYQvdmyHalVq7uEuX1oP98unyekap+1gXaUrw442j318sckk72c81wZX/gziTO4D1HyDQ
cWz2nM5r/X18rk5RG25toCUhsh47nN6CV/usE9KzfP5zVt5JG/YJR+nBEGntXY2d1eNoQo
2tMWC38N5gTUQkMsar7g66utdXlUvkWpgebOrTxkAAAFkLcwblOwsG5TAAAAB3NzaC1yc2
EAAAGBANBe018akIEtjIk7wzW50WraH8ALc+mEHrbjSGaVX+cZd6FmVeYFT81Mgb/+rVGRwt/o/VoCEn3KC4P8WfxgFQ2WOUcNRFX88f6h1cfNSEimTyE7HKHqfwOQfeE9QCHG
aHBHPin/hXWWBiVoTv1xevehM8O0wwRaYIqe28gho/cAEgmGpjmcnp3CyKhpr6jMHb00p9
cx1gZ XV25AMH6Gg+UWzAijvUcEorCLiuEBkjHFU2cJ9MjfuV/QbtCOtzba6z1Et+o27s6
JGvNqfb8cD5v70tcuw2t24YeoulJDE7xH9mSyMh8TGTvDv3ks7xD1DCs41xWV2EL3zsh2p
Vau7Ll9aD/fIp8npGqftYF21k8OON99fLHCpo9nPNcGW/4GYk00A5R8g0HF8s2Zz0a/19
fk5OURtubaAlB7Ie05zeglf7rBPsmXz+c1beSRv2CUpwR8p7V2NnQHjaEKNrTFnN/DeYe
1EJDLGq+4OurrrXV5VlyKXoGzq012wAAAAMBAAEAAAGAAV8msi2ZB4E/b9oVZBgxIqDSSl
nEL8ijr2LcXyim+ZM4N+9qvbnOQ/rx+OnTat+y5XAXEJUs00EmdojsJ38/Gr6AD78nQ74U
9hjU1ijIIkFkwwNyYSBd1NRXW1s3E2mvaLxw0m3+JgMty1NEDjj5/Ep5gKGQ70oSMqiks
LN5h5RHvoo8yrzRfQM7aZFaFer13nllrrq7hiux5fCaRQON7a9WC/qX81cdriouHZlEug2
e+vixRwmJshawPbOWS6oMxbt7XF1KM1VNIFCDe06b9BcrkLQsiHVTKykkQCXJK1s02Jkrn
5fVvybeRosLBE1fAvUU5pPYjF5hqaLfU1tTp60wIpXUzT6EXJjPPMPnNu00Cug26nsW4x
69Vf08B4RZkPOW8F7tEVODau1uMETtr30W7K7p0MW+n7f4PA6FRHDxx1IKX5CarMBPncdu
FC1k0YQdgMIv1B2CryPO0nyIfGnkuRoWtkqwuDy93Yu1NWuA/DqYKMTiovPCPAr1AAAA
wODritSwmNVcvW21f0WMhF7k5/QgHvCrcQ0pPd87IpsrYCKILpGAo0+gdYf07dYUn9Wz01
DZvM3mqIqn71z5vvz72lyJcbU9+oDYkjRm32ffkeGRTcop7VViIDCXVwsiQM+Vmkk8cTT
NLGS4JQry0naOpCvBwPn0JQGcdE3u9GU8EF/yHPX+19Hd/UUsX1Orr4ZNGr/eK/SgRs/vs
zYWeGe6p8VMUkAzCspnv0zd8a+fr1s29n0PtW4Cty4Jq2Qqc4AAADBAOzykkyFGz5lu8/5
RvFbOC/m0+10Hg70wIaJfAqTjW2tCcHoqXUYFAJJxxEI/emT8613Rkw/VVhotOtBUU1rj
vcLl1tWvh0XWvK/5+bTd0oYAg2TQa6u1hT9IOj2EvCEROUR8k4i84gy98bwyyWC2aaNgh
2P5DoOHGrauVIzWAg12bf+mSxWpBX+ptONYDiFVJ0qA23jGyneKzRdk33JrcUQGdRMNZ6q
5+Xnu3pApk/MyxyVOBJoFpjWgpqjk7wAAAMEA4RW2SvIBROs+inYLIS3Fmx7z/98hhAF7
WMQmYIxFW04qk00D7yseq5070cXVofkjDkk2FPqJ2Inibvo4YhykLVyaDuKezYCKpUHsx
rnwim/SiUEjk7kRV0wfkj1X1841WugNf/K1EN3qTJvKPAtvbb9bB3qOqm9u21j/VrEfHQ
8dRfxF9MeYinGKyNunE/E4Lr5du1wt8UYqyRT0EVBvqdjZi3505Rh4Jqgj2+HBjblBT9BC
6kd1bBEIyb0vXvAAAFA3VidW50dUBpcC0xNzItMzEtMzk1tMTcwAQID
-----END OPENSSH PRIVATE KEY-----
ubuntu@ip-172-31-39-170:~/ssh$
```

19 March 2024  
Tuesday

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CloudShell Feedback



A screenshot of a web browser window titled "Not secure" with the URL "3.214.210.231:8080/manage/credentials/store/system/domain/\_/credential/ssh-agent/". The page is part of a Jenkins instance, specifically the "Manage Jenkins > Credentials > System > Global credentials (unrestricted)" section. The credential shown is named "ubuntu (ssh-agent)", which is identified as an "ssh-agent". The "Usage" section indicates it has been used in two places: "production-project-server-dev" (#22) and "- #27". The browser's address bar shows the full URL. The top navigation bar includes links for AWS Skill Builder, Docker Hub, GitHub, ChatGPT, and various system and developer tools. A search bar at the top right contains the placeholder "Search (CTRL+K)". On the far right, there are icons for help, notifications (1), user profile ("gokulsm"), and log out.



# Jenkins

Search (CTRL+K)



gokulsm

log out

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > ubuntu (ssh-agent)

Update

Delete

Move

## ubuntu (ssh-agent)

ssh-agent

### Usage

This credential has been recorded as used in the following places:

*Note: usage tracking requires the cooperation of plugins and consequently may not track every use.*

[production-project-server-dev](#)

#22

- #27

REST API

Jenkins 2.440.1



Type here to search



AUD/INR -0.56%



13:20  
19-03-2024

# Build Triggers

Not secure 3.214.210.231:8080/job/production-project-server-dev/configure

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Dashboard > production-project-server-dev > Configuration

Preserve stashes from completed builds

## Configure

This project is parameterized ?

Throttle builds ?

### Build Triggers

Build after other projects are built ?

Projects to watch

docker-hub-dev

Trigger only if build is stable

Trigger even if the build is unstable

Trigger even if the build fails

Always trigger, even if the build is aborted

Build periodically ?

GitHub hook trigger for GITScm polling ?

Poll SCM ?

**Docker-hub-dev job trigger Deployment job for build and deploy docker image in ec2**

Save Apply

## Pipeline Configure

### Definition

#### General

#### Advanced Project Options

#### Pipeline

##### Script ?

```
1 pipeline {
2     agent any
3
4     stages {
5         stage('ssh-agent'){
6             steps{
7                 sshagent(['ssh-agent']){
8                     sh 'ssh -tt -o strictHostKeyChecking=no ubuntu@3.214.210.231 /home/ubuntu/dockerdeploy.sh'
9                 }
10            }
11        }
12    }
13 }
14 }
15 }
```

Use Groovy Sandbox ?

### Pipeline Syntax

Save

Apply



Status

</> Changes

Add description

▷ Build Now

Disable Project

⚙ Configure

Delete Pipeline

## ✓ production-project-server-dev

🔍 Full Stage View

✍ Rename

Pipeline Syntax

### Stage View



# ssh-pipeline-script

```
pipeline {  
    agent any  
  
    stages {  
  
        stage('ssh-agent') {  
            steps {  
                sshagent(['ssh-agent-sm']) {  
                    sh 'ssh -tt -o strictHostKeyChecking=no ubuntu@52.22.19.194 /home/ubuntu/dockerdeploy.sh'  
                }  
            }  
        }  
    }  
}
```

# dockerdeploy.sh

```
#!/bin/bash
echo "deployment start"
docker stop $(docker ps -aq)
docker rm $(docker ps -aq)
docker rmi $(docker images -q)
docker pull gokulsm/dev
docker run -d -it -p 80:80 gokulsm/dev
echo "deployment completed"
```

Insta EC2 Pron Task Zen DevC devc Web build prod system Doc Get! Insta Chat Read repo +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02f5fe0b1eee17023&osUser=ubuntu&region=us-east-1&sshPort=22#/

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D... N. Virginia ▾ gokul ▾

aws Services Search [Alt+S]

```
Last login: Tue Mar 19 08:31:40 2024 from 3.214.210.231
ubuntu@ip-172-31-39-170:~$ LS
LS: command not found
ubuntu@ip-172-31-39-170:~$ ls
dockerdeploy.sh node-exporter.service
ubuntu@ip-172-31-39-170:~$
```

# trigger the is dockerdeploy file

# Pipeline Configuration Output

## DEV

Not secure 3.214.210.231:8080

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# Jenkins

Search (CTRL+K) ?

Dashboard >

+ New Item

People All +

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue ^

Build Executor Status ▾

Icon: S M L

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	demo	2 days 8 hr #29	2 days 13 hr #19	1.8 sec
✓	☀️	docker-hub-dev	11 hr #14	2 days 9 hr #4	15 sec
✓	☀️	docker-hub-prod	1 day 12 hr #53	2 days 10 hr #40	6 sec
✓	☀️	production-project-server-dev	3 min 39 sec #28	2 days 11 hr #15	22 sec

1 Idle

2 docker-hub-dev #15 (login to dockerhub)

REST API Jenkins 2.440.1

Not secure 3.214.210.231:8080

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Footer Color Palettes for D... »

# Jenkins

Search (CTRL+K) ?

! 1 gokulsm log out

Dashboard >

+ New Item

People All +

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue ^

Build Executor Status ▾

Icon: S M L

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	demo	2 days 8 hr #29	2 days 13 hr #19	1.8 sec
✓	☀️	docker-hub-dev	11 hr #14	2 days 9 hr #4	15 sec
✓	☀️	docker-hub-prod	1 day 12 hr #53	2 days 10 hr #40	6 sec
✓	☀️	production-project-server-dev	3 min 39 sec #28	2 days 11 hr #15	22 sec

1 Idle

2 production-project-server-dev #29 (ssh-agent)

production-project-server-dev #29

REST API Jenkins 2.440.1

Type here to search Near record 14:01 19-03-2024 ENG PRE

## Console Output

Started by upstream project "docker-hub-dev" build number 15  
originally caused by:  
    Started by GitHub push by gokulsm1197  
    [Pipeline] Start of Pipeline  
    [Pipeline] node  
        Running on Jenkins in /var/lib/jenkins/workspace/production-project-server-dev  
        [Pipeline] {  
        [Pipeline] stage  
        [Pipeline] { (ssh-agent)  
        [Pipeline] sshagent  
            [ssh-agent] Using credentials ubuntu (ssh-agent)  
            [ssh-agent] Looking for ssh-agent implementation...  
            [ssh-agent] Exec ssh-agent (binary ssh-agent on a remote machine)  
            \$ ssh-agent  
                SSH\_AUTH\_SOCK=/tmp/ssh-XXXXXXZBWDr/agent.5754  
                SSH\_AGENT\_PID=5757  
                Running ssh-add (command line suppressed)  
                Identity added: /var/lib/jenkins/workspace/production-project-server-dev@tmp/private\_key\_13331732944572713851.key (ubuntu@ip-172-31-39-170)  
                [ssh-agent] Started.  
            [Pipeline] {  
            [Pipeline] sh  
                + ssh -tt -o strictHostKeyChecking=no ubuntu@3.214.210.231 /home/ubuntu/dockerdeploy.sh  
                deployment start  
                785dca4d43bb  
                785dca4d43bb  
                Untagged: gokulsm/dev:15  
                Untagged: gokulsm/dev@sha256:d16c7346f8af43f07da96b79aa4487c328d7de7032f9c9704a177a9c6890ed48  
                Deleted: sha256:ccdfb30ad1568189e31b94925c108f29dd0ec586afa85923c5f0dbd0e22c61b8  
                Untagged: gokulsm/dev:latest  
                Untagged: gokulsm/dev@sha256:0efa9392adf2e41453a208663c9f80b68b41a92a7844c856ec8b1ec30cf9be9a  
                Deleted: sha256:bd3d27cd09f0455770ef53d831a9dfffd3da9773dac04677771bb835eff684  
                Deleted: sha256:b86eda58974031cbc9cdfb282ae1afaa63d5794f7392b33e91135aaf5a4a2e45  
                Using default tag: latest  
                latest: Pulling from gokulsm/dev



Type here to search



AUD/INR -0.57%



14:04  
19-03-2024

Instances | EC2 In | EC2 In | Prometheus | Task | Zen Class | DevOps | devop | Webhook | Google build | pr | system | Docker | Get Started | Install | ChatGPT | +

Not secure 3.214.210.231:8080/job/production-project-server-dev/29/console

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Dashboard > production-project-server-dev > #29

```
@[1AB[2K
33952c599532: Already exists
@[1B
@[1AB[2K
1d461e924eed: Pulling fs layer
@[1B@[1AB[2K
1d461e924eed: Downloading 19.86kB/737kB
@[1B@[1AB[2K
1d461e924eed: Verifying Checksum
@[1B@[1AB[2K
1d461e924eed: Download complete
@[1B@[1AB[2K
1d461e924eed: Extracting 32.77kB/737kB
@[1B@[1AB[2K
1d461e924eed: Extracting 737kB/737kB
@[1B@[1AB[2K
1d461e924eed: Extracting 737kB/737kB
@[1B@[1AB[2K
1d461e924eed: Pull complete
@[1BDigest: sha256:0ef9392adf2e41453a208663cf9f00b68b41a92a7844c856ec8b1ec30cf9be9a
Status: Downloaded newer image for gokulsm/dev:latest
docker.io/gokulsm/dev:latest
c4f113f5234771440cfb47afb006fa4b5e8f16dd733fe4f057a5bf812c00fc4c
deployment completed
Connection to 3.214.210.231 closed.
[Pipeline] }
$ ssh-agent -k
unset SSH_AUTH_SOCK;
unset SSH_AGENT_PID;
echo Agent pid 5757 killed;
[ssh-agent] Stopped.
[Pipeline] // sshagent
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



Type here to search



Hot weather



14:04  
19-03-2024



A screenshot of a web browser showing multiple tabs open, including Jenkins, AWS Skill Builder, Docker Hub, GitHub, ChatGPT, and various Google services. The Jenkins tab is active, displaying the 'production-project-server-dev' pipeline status.

The Jenkins interface shows the following details:

- Status:** Production-project-server-dev
- Actions:** Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Rename, Pipeline Syntax.
- Build History:** Trend, Filter..., #29 (Mar 19, 2024, 8:31 AM), #28 (Mar 19, 2024, 8:27 AM), #27 (Mar 18, 2024, 8:56 PM), #26 (Mar 18, 2024, 7:56 PM), #25 (Mar 18, 2024, 5:46 PM), #24 (Mar 18, 2024, 5:28 PM), #23 (Mar 17, 2024, 7:57 PM), #22 (Mar 17, 2024, 7:53 PM).
- Stage View:** ssh-agent stage with 8 builds (#29 to #22) showing average stage times of 7s, 10s, 16s, 5s, 4s, 4s, 5s, and 7s respectively.

The Jenkins pipeline 'production-project-server-dev' is currently in a healthy state, indicated by a green checkmark icon.

**Actions:**

- Changes
- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- Rename
- Pipeline Syntax

**Build History** (Trend):

- #29 | Mar 19, 2024, 8:31 AM
- #28 | Mar 19, 2024, 8:27 AM
- #27 | Mar 18, 2024, 8:56 PM
- #26 | Mar 18, 2024, 7:56 PM
- #25 | Mar 18, 2024, 5:46 PM
- #24 | Mar 18, 2024, 5:28 PM
- #23 | Mar 17, 2024, 7:57 PM
- #22 | Mar 17, 2024, 7:53 PM

**Stage View** (ssh-agent):

Build	Time
#29	10s
#28	16s
#27	5s
#26	4s
#25	4s
#24	5s
#23	7s

**System Status:**

- 35°C Sunny
- 14:12 19-03-2024
- Windows Taskbar icons: Search, File Explorer, Mail, Edge, VS Code, Powerpoint, Word, Excel, File Manager.

# Docker Hub-DEV-Repository

Status

</> Changes

Console Output

View as plain text

Edit Build Information

Delete build '#53'

Polling Log

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

← Previous Build

## Console Output

```
Started by GitHub push by gokulsm1197
Obtained Jenkinsfile from git https://github.com/gokulsm1197/devops-project.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/docker-hub-prod
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/docker-hub-prod/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/gokulsm1197/devops-project.git # timeout=10
Fetching upstream changes from https://github.com/gokulsm1197/devops-project.git
> git --version # timeout=10
> git --version # 'git' version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/gokulsm1197/devops-project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision db2a29dce80798db3bfbbcf036695c56dc5f0d82 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f db2a29dce80798db3bfbbcf036695c56dc5f0d82 # timeout=10
Commit message: "ssh-agent-pipeline"
> git rev-list --no-walk 676e0aa97bfedd7a01ff2128e85c6024cd04180f # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $DOCKERHUB_CREDENTIALS or $DOCKERHUB_CREDENTIALS_PSW
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build docker image)
[Pipeline] sh
+ docker build -t gokulsm1197/docker-hub-prod:53
```



Type here to search



35°C Sunny



14:06  
19-03-2024

Not secure 3.214.210.231:8080/job/docker-hub-prod/53/console

```
#7 exporting layers done
#7 writing sha256:bd3d27dc09f0455770ef53d831a9dfffd3da9773dac04677771bb835eff684 done
#7 naming to docker.io/gokulsm/prod:53 0.0s done
#7 DONE 0.0s
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (login to dockerhub)
[Pipeline] sh
+ docker login -u gokulsm --password-stdin
+ echo ***
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]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (push image)
[Pipeline] sh
+ docker push gokulsm/prod:53
The push refers to repository [docker.io/gokulsm/prod]
fd9bef24b967: Preparing
fd11601@0e4: Preparing
93b4c8c4ac85: Preparing
b7df9f214b50: Preparing
ab75a0b1b1d1: Preparing
c11bf2f95dc: Preparing
4d99aab1eed4: Preparing
a483da8ab3b3e9: Preparing
c11bf2f95dc: Waiting
4d99aab1eed4: Waiting
a483da8ab3b3e9: Waiting
b7df9f214b50: layer already exists
fd9bef24b967: layer already exists
ab75a0b1b1d1: layer already exists
fd11601@0e4: layer already exists
93b4c8c4ac85: layer already exists
c11bf2f95dc: layer already exists
4d99aab1eed4: layer already exists
a483da8ab3b3e9: layer already exists
53: digest: sha256:0ef5932adf2e01453a208663c9f80b68b41a91a7844c856ec8b1ec30cf9be9a size: 1988
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] sh
+ docker logout
Removing login credentials for https://index.docker.io/v1/
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // withCredentials
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



Type here to search



35°C Sunny



14:07  
19-03-2024

A screenshot of a web browser showing multiple tabs open, including Jenkins, AWS Skill Builder, Docker Hub, GitHub, ChatGPT, and various Google services. The Jenkins tab is active, displaying a build status for 'docker-hub-prod'.

The Jenkins dashboard for the 'docker-hub-prod' project is shown. The left sidebar contains navigation links like Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Rename, Pipeline Syntax, and GitHub Hook Log. The main area displays the 'Stage View' for recent builds (#53 to #46). The table shows five stages: Declarative: Checkout SCM, Build docker image, login to dockerhub, push image, and Declarative: Post Actions. Build #53 is highlighted with a red border. The bottom of the screen shows the Windows taskbar with the Start button, search bar, and pinned icons for File Explorer, Edge, Mail, and VS Code.

### Stage View

	Declarative: Checkout SCM	Build docker image	login to dockerhub	push image	Declarative: Post Actions
#53 Mar 18 01:26 1 commit	527ms	2s	368ms	603ms	429ms
#52 Mar 18 01:18 1 commit	467ms	2s	404ms	869ms	361ms
#51 Mar 18 24:56 No Changes	753ms	2s	423ms	924ms	440ms
#50 Mar 17 05:47 1 commit	463ms	3s	366ms	2s	397ms
#49 Mar 17 05:39 1 commit	396ms	2s	607ms	2s	381ms
#48 Mar 17 05:33 No Changes	340ms	2s	621ms	2s	365ms
#47 Mar 17 No	472ms	2s	372ms	614ms	358ms

Instances EC2 Instances Prometheus Task Scheduler Zen Class DevOps Development Webhooks Google Cloud Build Docker System Docker Get Started Install ChatGPT

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02f5fe0b1eee17023&osUser=ubuntu&sshPort=22#/

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... M <footer>: The Footer Color Palettes for D...

aws Services Search [Alt+S] N. Virginia gokul

```
echo "deployment completed"
ubuntu@ip-172-31-39-170:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-39-170:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-39-170:~$ ^C
ubuntu@ip-172-31-39-170:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
785dca4d43bb gokulsm/dev "/docker-entrypoint...." 2 minutes ago Up About a minute 0.0.0.0:80->80/tcp, :::80->80/tcp zen_bassi
ubuntu@ip-172-31-39-170:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
gokulsm/dev latest bd3d27dcd09f 3 days ago 189MB
ubuntu@ip-172-31-39-170:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
gokulsm/dev latest bd3d27dcd09f 3 days ago 189MB
ubuntu@ip-172-31-39-170:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c4f113f52347 gokulsm/dev "/docker-entrypoint...." 3 minutes ago Up 3 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp confident_mcclintock
ubuntu@ip-172-31-39-170:~$
```

Port 80 http -- 3.214.210.231

Not secure 3.214.210.231

AWS Skill Builder Docker Hub GitHub Projects - sivathamil ChatGPT main.py - band-na... Auditorium hkhcoder/vprofile-p... Zen Class Course: The Comple... <footer>: The Foot... Color Palettes for D...

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<b>OnePlus 9 5G</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Iphone 13 mini</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Samsung s21 ultra</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>xomi mi 11</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>OnePlus 9 5G</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Iphone 13 mini</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Samsung s21 ultra</b>  5.4 inch display 399 <a href="#">Add to Cart</a>
<b>xomi mi 11</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>OnePlus 9 5G</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Iphone 13 mini</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>Samsung s21 ultra</b>  5.4 inch display 399 <a href="#">Add to Cart</a>	<b>xomi mi 11</b>  5.4 inch display 399 <a href="#">Add to Cart</a>		

# Docker Hub-PROD-Repository

Dashboard &gt;

New Item

Add description

People

All

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

Build Executor Status

1 Idle

2 Idle

docker-hub-prod

#54

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

S	W	Name ↓	Last Success	Last Failure	Last Duration
		demo	2 days 8 hr #29	2 days 14 hr #19	1.8 sec
		docker-hub-dev	44 min #15	2 days 10 hr #4	12 sec
		docker-hub-prod	1 day 13 hr #53	2 days 10 hr #40	6 sec
		production-project-server-dev	44 min #29	2 days 11 hr #15	11 sec

REST API

Jenkins 2.440.1

Dashboard > docker-hub-prod > #54

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#54'

Polling Log

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

## Console Output

```
Started by GitHub push by gokulsm1197
Obtained Jenkinsfile from git https://github.com/gokulsm1197/devops-project.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/docker-hub-prod
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/docker-hub-prod/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/gokulsm1197/devops-project.git # timeout=10
Fetching upstream changes from https://github.com/gokulsm1197/devops-project.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/gokulsm1197/devops-project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 260245da96919cc916dd61b68390f00c84be8b33 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 260245da96919cc916dd61b68390f00c84be8b33 # timeout=10
Commit message: "Dockerfile"
> git rev-list --no-walk db2a29dce80798db3fbcbf036695c56dc5f0d82 # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $DOCKERHUB_CREDENTIALS or $DOCKERHUB_CREDENTIALS_PSW
[Pipeline] {
[Pipeline] stage
```

```
Login Succeeded
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (push image)
[Pipeline] sh
+ docker push gokulsm/prod:54
The push refers to repository [docker.io/gokulsm/prod]
7c744bfe4bb0: Preparing
fd31601f0be4: Preparing
93b4c8c4ac05: Preparing
b7df9f234b50: Preparing
ab75a0061b1d1: Preparing
c1b1bf2f95dc: Preparing
4d99aab1eed4: Preparing
a483da8ab3e9: Preparing
c1b1bf2f95dc: Waiting
4d99aab1eed4: Waiting
a483da8ab3e9: Waiting
fd31601f0be4: Layer already exists
ab75a0061b1d1: Layer already exists
93b4c8c4ac05: Layer already exists
4d99aab1eed4: Layer already exists
a483da8ab3e9: Layer already exists
7c744bfe4bb0: Mounted from gokulsm/dev
b7df9f234b50: Layer already exists
c1b1bf2f95dc: Layer already exists
54: digest: sha256:d16c7346f8af43f07da96b79aa4487c328d7de7032f9c9704a177a9c6890ed48 size: 1988
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] sh
+ docker logout
Removing login credentials for https://index.docker.io/v1/
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Docker Hub

Explore   **Repositories**   Organizations

Search Docker Hub   **ctrl+K**

gokulsm / [Repositories](#) / [prod](#) / [General](#)

Using 1 of 1 private repositories. [Get more](#)

**General**   Tags   Builds   Collaborators   Webhooks   Settings

**gokulsm/prod**

Updated 2 minutes ago

This repository does not have a description

**Docker commands**

To push a new tag to this repository:

```
docker push gokulsm/prod:tagname
```

**Tags**

This repository contains 5 tag(s).

Tag	OS	Type	Pulled	Pushed
54		Image	---	2 minutes ago
53		Image	---	2 days ago
52		Image	---	2 days ago
51		Image	---	2 days ago
50		Image	---	2 days ago

**Automated Builds**

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)

**Upgrade**

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**DockerHub** Explore **Repositories** Organizations **Search Docker Hub** **ctrl+K** ? G

gokulsm / [Repositories](#) / [dev](#) / [General](#)

Using 1 of 1 private repositories. [Get more](#)

[General](#) Tags Builds Collaborators Webhooks Settings

## gokulsm/dev

Updated about 1 hour ago

zen-task

### Docker commands

To push a new tag to this repository:

[Public View](#)

```
docker push gokulsm/dev:tagname
```

### Tags

This repository contains 12 tag(s).

Tag	OS	Type	Pulled	Pushed
15		Image	--	an hour ago
14		Image	an hour ago	12 hours ago
13		Image	an hour ago	13 hours ago
12		Image	an hour ago	16 hours ago
11		Image	an hour ago	16 hours ago

### Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#).

[Upgrade](#)

# Production-Server Security Groups



EC2 | EC2 | Prof | Task | Zen | Dev | dev | Wei | G buil | doc | syst | Doc | Get | Inst | Cha | Rea | port | gok | +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyOutboundSecurityGroupRules:securityGroupId=sg-0ed7609ff58e2a89b

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EC2 Services Search [Alt+S]

EC2 > Security Groups > sg-0ed7609ff58e2a89b - launch-wizard-8 > Edit outbound rules

## Edit outbound rules Info

Outbound rules control the outgoing traffic that's allowed to leave the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Destination <small>Info</small>	Description - optional <small>Info</small>
sgr-0595371e97468fb2c	Custom TCP	TCP	9100	Custom	<input type="text"/> 0.0.0.0/0 <small>X</small>
sgr-0003966dfd5483941	All traffic	All	All	Custom	<input type="text"/> 0.0.0.0/0 <small>X</small>

[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.

[Cancel](#) [Preview changes](#) [Save rules](#)

# **Monitoring-Server ec2 Instance Configuration Prometheus and Grafana & Alertmanager**

**Node Exporter Configuration Configuration in Prometheus**

**Grafana Configuration in Prometheus**

**Alertmanager Configuration in Prometheus**

**Prometheus an all Install Step Reference Avr Website**

**Email Configuration By smtp Server**

# Monitoring-Server Instance

AWS Services | Search [Alt+S] |   Instance state ▾ | Actions ▾ | N. Virginia | gokul | 

EC2 Dashboard | X | EC2 > Instances > i-0104b7acff3ae9a33

Instance summary for i-0104b7acff3ae9a33 (monitoring-server) 

Updated about 1 hour ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0104b7acff3ae9a33 (monitoring-server)	52.22.19.194 	172.31.28.184
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-52-22-19-194.compute-1.amazonaws.com 
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-28-184.ec2.internal	ip-172-31-28-184.ec2.internal	52.22.19.194 [Public IP]
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	 Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	 Learn more
-	vpc-05fbffcb1fb9c1a33 	Auto Scaling Group name
IAM Role	Subnet ID	-
-	subnet-0db741e4ae2aa588b 	
IMDSv2		
Required		

EC2 Dashboard X

EC2 Global View

Events

Console-to-Code  
[Preview](#)

Instances

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

EC2 > Elastic IP addresses > 52.22.19.194

# 52.22.19.194

[Actions](#) [Associate Elastic IP address](#)

Summary	
Allocated IPv4 address	Type
<a href="#">52.22.19.194</a>	<a href="#">Public IP</a>
Association ID	Scope
<a href="#">eipassoc-0a7f31963bd12e56c</a>	<a href="#">VPC</a>
Network interface ID	Network interface owner account ID
<a href="#">eni-06988ef4a21aef0b4</a>	<a href="#">488546547125</a>
Address pool	Network border group
<a href="#">Amazon</a>	<a href="#">us-east-1</a>
Tags(0)	
<a href="#">Manage tags</a>	

< 1 > ⚙️

Key	Value
-----	-------

EC2 > Security Groups > sg-0bf4459cd660bbcb0 - launch-wizard-11 > Edit inbound rules

### Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Delete
sgr-002152d537429d611	Custom TCP	TCP	9090	Custom	prometheus	<button>Delete</button>
sgr-02afec276baa2a011	SSH	TCP	22	Custom	grafana	<button>Delete</button>
sgr-0fb0f2f160e23aef2	Custom TCP	TCP	3000	Custom	grafana	<button>Delete</button>
sgr-0795e06b4b9539dae	HTTPS	TCP	443	Custom		<button>Delete</button>
sgr-06c1a42d85c2292b2	All traffic	All	All	Custom		<button>Delete</button>
sgr-0a6ff27fca00be3ff	HTTP	TCP	80	Custom		<button>Delete</button>
sgr-0e0817ae05d892d82	Custom TCP	TCP	9093	Custom	alert-manager	<button>Delete</button>

Add rule

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyOutboundSecurityGroupRules:securityGroupId=sg-0bf4459cd660bbcb0

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aws Services elastiCache

EC2 > Security Groups > sg-0bf4459cd660bbcb0 - launch-wizard-11 > Edit outbound rules

## Edit outbound rules Info

Outbound rules control the outgoing traffic that's allowed to leave the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Destination <small>Info</small>	Description - optional <small>Info</small>
sgr-041bd56ca42efe48a	All traffic	All	All	Custom	<input type="text"/> 0.0.0.0/0 <small>X</small>

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.

Cancel Preview changes Save rules

CloudShell Feedback

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Type here to search 32°C Sunny 17:16 19-03-2024 ENG

Prometheus –PORT 9090

**File Path#: etc/ Prometheus/**

**Prometheus Have Two Configurations Files**

**Prometheus.yml --- It Is For Configurations**

**Rules.yml --- It Is For Set Of Rules It All so  
configure to Prometheus.yml File**

Insta Pron Task Zen DevC devc Web build dock system Docl Get Insta Chat Read port goku +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0104b7acff3ae9a33&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S]

14 updates can be applied immediately.  
13 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: sudo pro status

```
Last login: Mon Mar 18 20:54:27 2024 from 18.206.107.27
ubuntu@ip-172-31-28-184:~$ sudo service prometheus status
● prometheus.service - Prometheus
  Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; vendor preset: enabled)
  Active: active (running) since Tue 2024-03-19 01:42:05 UTC; 8h ago
    Main PID: 371 (prometheus)
      Tasks: 7 (limit: 1121)
     Memory: 69.4M
        CPU: 10.471s
       CGroup: /system.slice/prometheus.service
           └─371 /usr/local/bin/prometheus --config.file /etc/prometheus/prometheus.yml --storage.tsdb.path /var/lib/prometheus/ --web.console.templates=/etc/prometheus/consoles --we

Mar 19 07:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T07:00:06.396Z caller=compact.go:502 component=tsdb msg="write block" mint=1710820800000 maxt=1710828000000 ul>
Mar 19 07:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T07:00:06.410Z caller=head.go:824 component=tsdb msg="Head GC completed" duration=1.268962ms
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.395Z caller=compact.go:502 component=tsdb msg="write block" mint=1710828000000 maxt=1710835200000 ul>
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.409Z caller=head.go:824 component=tsdb msg="Head GC completed" duration=1.227824ms
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.430Z caller=checkpoint.go:95 component=tsdb msg="Creating checkpoint" from_segment=27 to_segment=28
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.462Z caller=head.go:908 component=tsdb msg="WAL checkpoint complete" first=27 last=28 duration=31.99s
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.522Z caller=compact.go:443 component=tsdb msg="compact blocks" count=3 mint=1710806400000 maxt=17108
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.536Z caller=db.go:1187 component=tsdb msg="Deleting obsolete block" block=01HSAR56J8H1DMKBJ16VD7FAA
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.538Z caller=db.go:1187 component=tsdb msg="Deleting obsolete block" block=01HSAADR2M8CFCSVGRYD76HE064
Mar 19 09:00:06 ip-172-31-28-184 prometheus[371]: level=info ts=2024-03-19T09:00:06.541Z caller=db.go:1187 component=tsdb msg="Deleting obsolete block" block=01HSAA9FAN7DQ7QK12REPZ0FC6
lines 1-20/20 (END)
```

i-0104b7acff3ae9a33 (monitoring-server)  
Public IPs: 52.22.19.194 Private IPs: 172.31.28.184

Prometheus Alerts Graph Status Help Classic UI

## Targets

All Unhealthy

node\_exporter (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
<a href="http://3.214.210.231:9100/metrics">http://3.214.210.231:9100/metrics</a>	UP	instance="3.214.210.231:9100" job="node_exporter"	7.224s	15.971ms	

Prometheus Alerts Graph Status ▾ Help Classic UI

✓ Inactive (1) ✓ Pending (0) ✓ Firing (0)  Show annotations

/etc/prometheus/first\_rules.yml > server\_is\_down inactive

> **server\_is\_down** (0 active)

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0104b7acff3ae9a33&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S]

global:  
scrape\_interval: 15s  
external\_labels:  
monitor: 'prometheus'  
  
scrape\_configs:  
- job\_name: 'node\_exporter'  **Node \_exporter Target IP**  
  
static\_configs:  
- targets: ['3.214.210.231:9100']  
  
  
# Alertmanager configuration  
alerting:  
alertmanagers:  
- static\_configs:  
- targets:  
- 'localhost:9093'  **Alertmanager Target IP**  
  
  
# Load rules once and periodically evaluate them according to the global 'evaluation\_interval'.  
rule\_files:  
- "first\_rules.yml"  **Rules files**  
# - "second\_rules.yml"  
  
ubuntu@ip-172-31-28-184:/etc/prometheus\$

**Alertmanager :--PORT 9093**

**File Path# : `usr/local/bin/alertmanager`**

`Alertmanager.yml` any alert set this file path

EX:`smtp@gmail.scom`

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0104b7acff3ae9a33&osUser=ubuntu&sshPort=22#/

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aws Services Search [Alt+S]

```
ubuntu@ip-172-31-28-184:/usr/local/bin/alertmanager$ cat alertmanager.yml
global:
  resolve_timeout: 1m

route:
  group_by: ['alertname']
  group_wait: 30s
  group_interval: 30m
  repeat_interval: 1h
  receiver: 'send_email'

receivers:
  - name: 'send_email'
    email_configs:
      - to: gokulsiva1197@gmail.com
        from: gokulsiva1197@gmail.com
        smarthost: smtp.gmail.com:587
        auth_username: "gokulsiva1197@gmail.com"
        auth_password: "sivathamil1197"
        require_tls: true

inhibit_rules:
  - source_match:
      severity: 'critical'
    target_match:
      severity: 'warning'
    equal: ['alertname', 'dev', 'instance']

ubuntu@ip-172-31-28-184:/usr/local/bin/alertmanager$ ^C
ubuntu@ip-172-31-28-184:/usr/local/bin/alertmanager$
```

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0104b7acff3ae9a33&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S]

```
ubuntu@ip-172-31-28-184:~$ systemctl status alertmanager
● alertmanager.service - Prometheus Alert Manager Service
  Loaded: loaded (/etc/systemd/system/alertmanager.service; disabled; vendor preset: enabled)
  Active: inactive (dead)
   Docs: man:alertmanager(8)
ubuntu@ip-172-31-28-184:~$ sudo systemctl status alertmanager.service
● alertmanager.service - Prometheus Alert Manager Service
  Loaded: loaded (/etc/systemd/system/alertmanager.service; disabled; vendor preset: enabled)
  Active: inactive (dead)
ubuntu@ip-172-31-28-184:~$ sudo systemctl start alertmanager.service
ubuntu@ip-172-31-28-184:~$ systemctl status alertmanager.service
● alertmanager.service - Prometheus Alert Manager Service
  Loaded: loaded (/etc/systemd/system/alertmanager.service; disabled; vendor preset: enabled)
  Active: active (running) since Tue 2024-03-19 11:37:03 UTC; 34s ago
    Main PID: 2175 (alertmanager)
      Tasks: 5 (limit: 1121)
     Memory: 36.8M
        CPU: 106ms
       CGroup: /system.slice/alertmanager.service
               └─2175 /usr/local/bin/alertmanager --config.file=/usr/local/bin/alertmanager/alertmanager.yml

Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.135Z caller=main.go:181 level=info msg="Starting Alertmanager" version="(version=0.27.0, branch=HEAD, revision=2cd11f671e9)"
Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.143Z caller=main.go:182 level=info build_context="(go=go1.21.7, platform=linux/amd64, user=root@2cd11f671e9)"
Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.171Z caller=cluster.go:186 level=info component=cluster msg="setting advertise address explicitly" addr="172.17.0.1"
Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.200Z caller=cluster.go:683 level=info component=cluster msg="Waiting for gossip to settle. ..." interval=2s
Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.228Z caller=coordinator.go:113 level=info component=configuration msg="Loading configuration file=/usr/local/bin/alertmanager/alertmanager.yml"
Mar 19 11:37:04 ip-172-31-28-184 alertmanager[2175]: ts=2024-03-19T11:37:04.229Z caller=coordinator.go:126 level=info component=configuration msg="Completed loading configuration file=/usr/local/bin/alertmanager/alertmanager.yml"
```

Grafana: -PORT 3000

# File Path# : /etc/grafana

grafana.ini any grafana relative configuration

Ex: smtp@gmaile.com  
: grafana metrics documentation

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0104b7acff3ae9a33&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S]

```
ubuntu@ip-172-31-28-184:/etc/grafana$ cd ..  
ubuntu@ip-172-31-28-184:/etc$ cd ..  
ubuntu@ip-172-31-28-184:$ sudo systemctl status grafana-server  
● grafana-server.service - Grafana instance  
  Loaded: loaded (/lib/systemd/system/grafana-server.service; enabled; vendor preset: enabled)  
  Active: active (running) since Tue 2024-03-19 01:42:05 UTC; 9h ago  
    Docs: http://docs.grafana.org  
 Main PID: 356 (grafana-server)  
   Tasks: 10 (limit: 1121)  
  Memory: 58.1M  
    CPU: 8.870s  
   CGroup: /system.slice/grafana-server.service  
           └─356 /usr/sbin/grafana-server --config=/etc/grafana/grafana.ini --pidfile=/var/run/grafana/grafana-server.pid --packaging=deb cfg:default.paths.logs=/var/log/grafana cfg:>  
  
Mar 19 01:42:06 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:06+0000 lvl=info msg="App mode production" logger=settings  
Mar 19 01:42:06 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:06+0000 lvl=info msg="Writing PID file" logger=server path=/var/run/grafana/grafana-server.pid pid=356  
Mar 19 01:42:06 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:06+0000 lvl=info msg="Connecting to DB" logger=sqlstore dbtype.sqlite3  
Mar 19 01:42:06 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:06+0000 lvl=info msg="Starting DB migrations" logger=migrator  
Mar 19 01:42:07 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:07+0000 lvl=info msg="Starting plugin search" logger=plugins  
Mar 19 01:42:08 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:08+0000 lvl=info msg="Registering plugin" logger=plugins id=input  
Mar 19 01:42:08 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T01:42:08+0000 lvl=info msg="HTTP Server Listen" logger=http.server address=[::]:3000 protocol=http subUrl= socket=  
Mar 19 02:00:28 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T02:00:28+0000 lvl=info msg="Request Completed" logger=context userId=0 orgId=0 uname= method=GET path=/ status=302 re>  
Mar 19 04:21:46 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T04:21:46+0000 lvl=info msg="Request Completed" logger=context userId=0 orgId=0 uname= method=GET path=/ status=302 re>  
Mar 19 06:07:35 ip-172-31-28-184 grafana-server[356]: t=2024-03-19T06:07:35+0000 lvl=info msg="Request Completed" logger=context userId=0 orgId=0 uname= method=GET path=/ status=302 re>  
lines 1-21/21 (END)  
ubuntu@ip-172-31-28-184:$
```



# Email Notification

mail.google.com/mail/u/1/#inbox/

[Alerting] Test notification

gokulsiva <gokulsiva197@gmail.com>  
to me

Mon, 18 Mar, 23:08 (18 hours ago)

Grafana

[Alerting] Test notification

Someone is testing the alert notification within Grafana.

Error message

This is only a test

Metric name Value

Metric name	Value
High value	100.000
Higher Value	200.000

Memory / CPU

View your Alert rule Go to the Alerts page

Sent by Grafana v7.3.4  
© 2020 Grafana Labs

Reply Forward

Enable desktop notifications for Gmail. OK No, thanks

I LEARNED A LOT  
THROUGH THIS PROJECT...!

thank you all.....,