

React Application DevOps Deployment

Complete CI/CD pipeline for deploying React application to AWS EC2 with Docker, Jenkins, and monitoring.

1. INTRODUCTION

In modern software development, organizations rely heavily on automation, scalability, and reliability to ship applications faster and with fewer failures. This shift has led to the rise of **DevOps**, a culture and set of practices that combine development and operations to automate the entire software delivery lifecycle. The primary objective of DevOps is to minimize manual effort, accelerate deployment frequency, maintain system stability, and ensure smooth collaboration across teams.

This project aims to build a **complete, production-grade DevOps pipeline** for deploying a React web application to an AWS EC2 instance using Docker, Jenkins, GitHub, and automated monitoring solutions. Instead of simply deploying an app, the project re-creates a **real company-like DevOps environment**, integrating CI/CD automation, multi-environment workflows, version control strategies, containerization standards, and cloud infrastructure practices.

The project covers the full lifecycle—from writing application code, containerizing it, building a continuous integration system, automating deployments, setting up monitoring, managing secrets, and structuring repositories using clean DevOps conventions. This not only enhances deployment efficiency but also ensures reproducibility, security, and operational consistency across development and production environments.

2. PURPOSE OF THE PROJECT

The purpose of this project is to demonstrate how DevOps principles can be applied in a real-world scenario by constructing a scalable, automated, and secure deployment pipeline. The project simulates how companies deploy web applications in production with minimal manual intervention.

Key motivations include:

- Eliminating manual deployment errors
 - Creating a predictable and repeatable pipeline
 - Gaining hands-on experience with CI/CD workflows
 - Understanding automation using Bash scripting
 - Learning how companies structure dev vs prod systems
 - Showcasing industry-level DevOps skills suitable for job readiness
-

3. PROJECT OBJECTIVES

This project has the following major objectives:

a) Containerization

- Create a production-ready Docker image for the React application

- Use Dockerfile, .dockerignore, and docker-compose
- Optimize images for size and build speed

b) Build Automation

- Develop a custom build.sh script to
 - Build Docker images
 - Assign version tags
 - Detect and allocate free ports automatically
 - Push to Docker Hub

c) Deployment Automation

- Develop deploy.sh script to
 - SSH into EC2
 - Pull Docker images
 - Stop and remove old containers
 - Run updated containers
 - Perform pre/post-deployment checks

d) CI/CD Implementation

- Integrate GitHub with Jenkins using Webhooks
- Configure multi-branch pipelines for dev and main
- Auto-build and auto-deploy based on branch rules

e) Multi-Environment Separation

- Dev branch → public dev Docker repository
- Main branch → private prod Docker repository
- Automated environment-specific deployment

f) Monitoring & Health Checks

- Enable container-level health checks
- Set up monitoring stack to detect failures
- Receive alerts when the application goes down

g) AWS Infrastructure Setup

- Use EC2 t2.micro with Ubuntu
- Configure proper security groups
- Restrict SSH to personal IP only

4. SCOPE OF THE PROJECT

The project includes:

- ✓ Complete CI/CD pipeline
 - ✓ Full automation using shell scripts
 - ✓ Cloud deployment on AWS
 - ✓ Monitoring system integration
 - ✓ Dev & Prod image management
 - ✓ Secure deployment using SSH keys
 - ✓ Optimized NGINX configuration
 - ✓ Clean Git workflow with branching strategy
 - ✓ Handling real production issues (ports, health, build failures)**
-

5. PROBLEM STATEMENT

Manual deployment processes are slow, error-prone, and non-repeatable. Teams often struggle with:

- Inconsistent environments
- Missing dependencies
- Failed deployments due to configuration mistakes
- Slow release cycles
- No visibility into application health
- Limited scalability

This project solves these challenges by implementing an end-to-end automated DevOps workflow, enabling fast, reliable, and repeatable deployments.

6. PROJECT SUMMARY

The project successfully demonstrates how DevOps teams deploy front-end applications using modern tools and best practices. It covers the entire journey:

- Code → GitHub
- GitHub → Jenkins (Webhooks)
- Jenkins → Docker Build
- Jenkins → Docker Hub Push
- Jenkins → AWS EC2 Deployment
- EC2 → Monitoring & Alerts

By completing this system, the project showcases real industry workflows, including:

- Reliable pipeline execution
 - Secure credential handling
 - Automated test container checks
 - Blue/Green-like deployment pattern
 - Health verification after deployment
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7. CONCLUSION

This project provides an end-to-end understanding of DevOps fundamentals and how large-scale organizations manage deployments. The implementation not only simulates a real DevOps ecosystem but also strengthens skills in:

- CI/CD workflows
- Containerization
- Cloud deployments
- Scripting & automation
- Monitoring and observability

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

[Recent](#) [Quick Start](#)

Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian

[Browse more AMIs](#) Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type ami-02b8269d5e85954ef (64-bit (x86)) / ami-027308fd79a86d2c (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture	AMI ID	Publish Date	Username
64-bit (x86)	ami-02b8269d5e85954ef	2025-10-22	ubuntu <small>Verified provider</small>

Instance type [Info](#) | [Get advice](#)

Instance type

t2.large Family: t2. 2 vCPU. 8 GiB Memory. Current generation: true. On-Demand RHEL base pricing: 0.128 USD per Hour All generations

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64 [read more](#)

ami-02b8269d5e85954ef

Virtual server type (instance type)

t2.large

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet. Data transfer charges are not included as part of the free tier allowance.

[Cancel](#) [Launch instance](#) [Preview code](#)

Instances [Launch an Instance](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required [Creates new key pair](#)

Network settings [Info](#)

VPC - required [Info](#)

vpc-05d9fe2596c1d8f25 172.2.0.0/16 default

Subnet [Info](#)

subnet-03d4f79038446606 172.2.1.0/24 Owner: 223997748772 Availability Zone: us-east-1a (eno1-mac) Zone type: Availability Zone IP addresses available: 4091 CIDR: 172.2.1.0/20 Create new subnet

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security group) [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

Security group name - required

The security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, underscores (_), and hyphens (-). (4095)

Description - required [Info](#)

project-3 for prod-dev

Inbound Security Group Rules

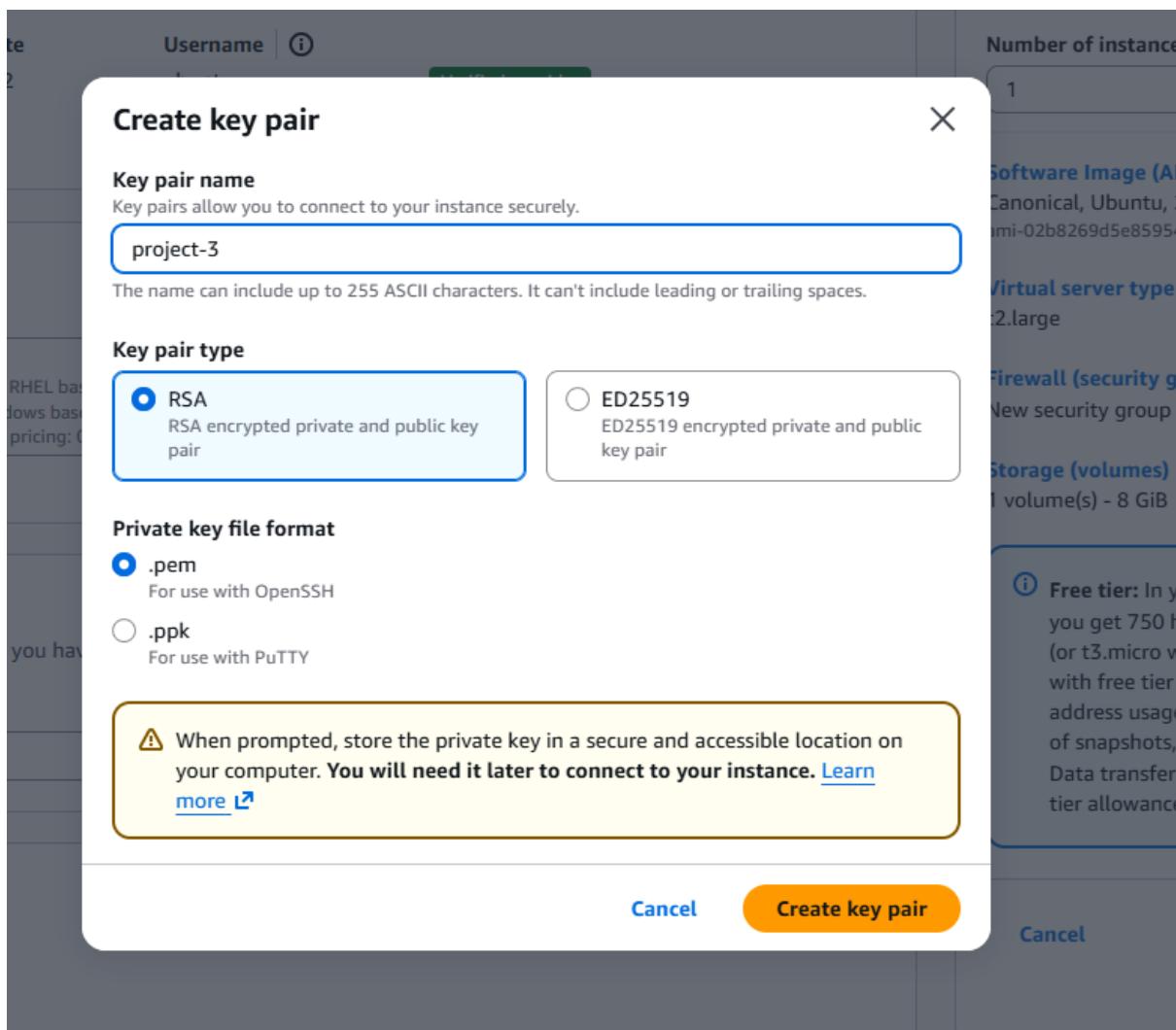
Security group rule 1 (TCP 22, 203.81.243.22/32, SSH access from my IP)

Type	Protocol	Port range	Remove
all	TCP	22	
Source type	Name	Description - optional	
My IP		SSH access from my IP	

Security group rule 2 (TCP 80, 0.0.0.0/0, HTTP access from anywhere)

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet. Data transfer charges are not included as part of the free tier allowance.

[Cancel](#) [Launch instance](#) [Preview code](#)



Instances > Launch an instance

Security group rule 1 (TCP:80,0.0.0.0/0, HTTP access from my IP)

Type: ssh Protocol: TCP Port range: 22
Source type: My IP Name: SSH access from my IP Description - optional:

Security group rule 2 (TCP:80,0.0.0.0/0, HTTP access from anywhere)

Type: HTTP Protocol: TCP Port range: 80
Source type: Custom Source: Add CIDR, prefix list or security group Description - optional: HTTP access from anywhere
0.0.0.0/0

Add security group rule

Advanced network configuration

Configure storage

1x 30 GB gp3 Root volume, 3000 IOPS, Not encrypted
Add new volume

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 24.04, ami-03b283d5bd5954ef

Virtual server type (instance type): t2.large

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year of operating an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the Internet. Data transfer charges are not included as part of the free tier allowance.

Launch instance

The screenshot shows the Docker Hub 'My Hub' interface. On the left, a sidebar lists options like Repositories, Hardened Images, Collaborations, Settings, Default privacy, Notifications, Billing, Usage, Pulls, and Storage. The main area is titled 'Create repository'. It has fields for 'Repository Name' (set to 'dev'), 'Short description' (set to 'Development images for React application'), and 'Visibility' (set to 'Public'). A note says 'Appears in Docker Hub search results'. On the right, there's a section titled 'Pushing images' with CLI instructions: `docker tag local-image:tagname new-repo:tagname` and `docker push new-repo:tagname`. A note says 'Make sure to replace tagname with your desired image repository tag.' Buttons for 'Cancel' and 'Create' are at the bottom.

This screenshot is similar to the one above, but the repository name is 'prod'. The description is 'Production images for React application'. The visibility is set to 'Private'. The rest of the interface, including the pushing images section and the 'Create' button, is identical.

The screenshot shows the Docker desktop application interface. On the left, a sidebar includes Home, Hub, Build Cloud, Hardened Images, Scout, Testcontainers Cloud, Docker Desktop, Settings, Account information, Email, and Password. The main area is titled 'Personal access tokens'. It explains how to use them for Docker CLI authentication and provides a link to 'Learn more'. A 'Generate new token' button is at the top right. Below is a table listing tokens:

Description	Scope	Status	Source	Created	Last used	Expiration date
project-2025	Read, Write, Delete	Active	Manual	Nov 15, 2025 at 09:27:17	Nov 17, 2025 at 10:01:15	Never
Generated through de...	Read, Write, Delete	Active	Auto-generated	Nov 14, 2025 at 18:35:36	Nov 16, 2025 at 11:02:34	Never
Generated through de...	Read, Write, Delete	Active	Auto-generated	Oct 14, 2025 at 18:25:36	Oct 16, 2025 at 17:40:56	Never
Generated through de...	Read, Write, Delete	Active	Auto-generated	Sep 17, 2025 at 22:10:05	Sep 17, 2025 at 22:10:05	Never

```
root@ip-172-31-4-138:~/project-3# docker login
USING WEB-BASED LOGIN

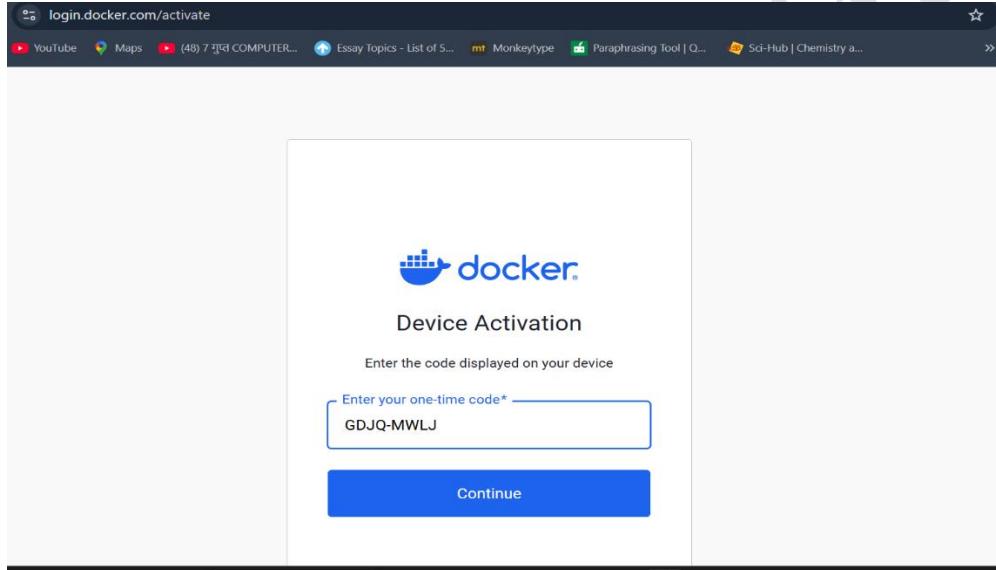
Info → To sign in with credentials on the command line, use 'docker login -u <username>'

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

Waiting for authentication in the browser...

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

Login Succeeded
root@ip-172-31-4-138:~/project-3# |
```



```
root@ip-172-31-4-138: ~, × + ▾
root@ip-172-31-4-138:~/project-3# docker login
USING WEB-BASED LOGIN

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

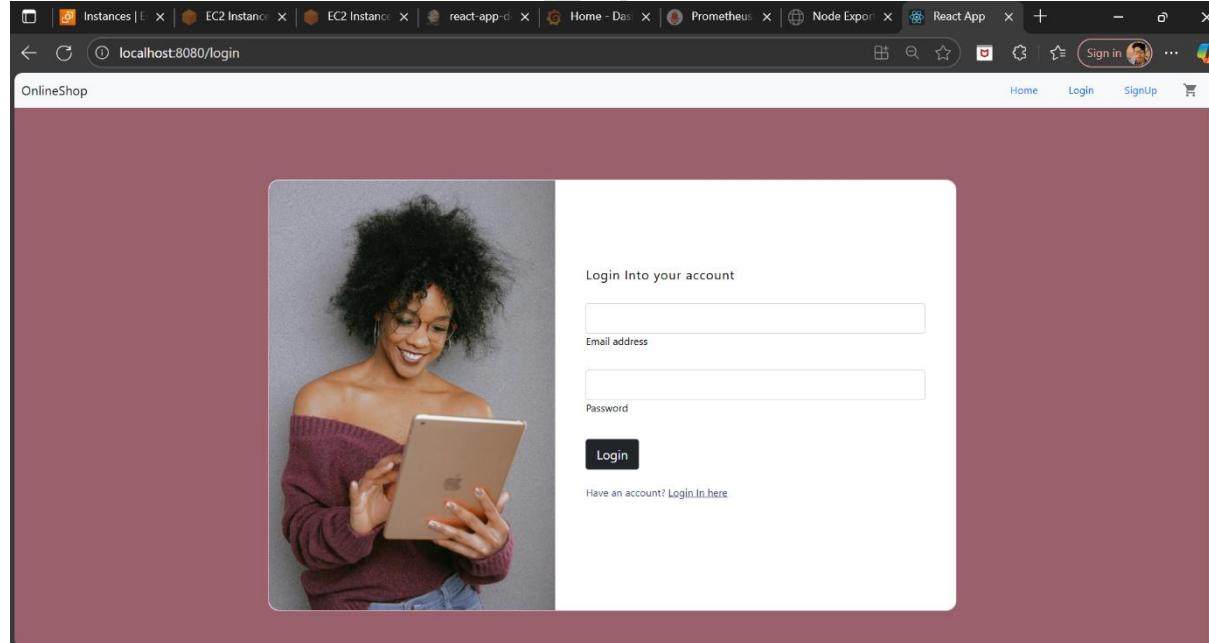
Your one-time device confirmation code is: GDJQ-MWLJ
Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate

Waiting for authentication in the browser... |
```

```
C:\Users\USER\Downloads\devops-build-by-Abхи>docker build -t your-app .
[+] Building 23.7s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> [internal] transfering dockerfile: 504B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [auth] library/nginx:pull token for registry-1.docker.io
=> [internal] load .dockerrigignore
=> transferring context: 835B
=> [1/3] FROM docker.io/library/nginx:alpine@sha256:b3c65d65d57ad751196f21b7fd2e84da9cb430e32f646adcfc92441b72f82b14
=> => resolve docker.io/library/nginx:alpine@sha256:b3c65d65d57ad751196f21b7fd2e84da9cb430e32f646adcfc92441b72f82b14
=> => sha256:da55dab595458834b38c1089999bea5eb834b10e99f715b12c97198d 1.21kB / 1.21kB
=> => sha256:dbabb0d442710d667f4fd871b5fd215cc2a430a95b192bc88bf458b6e0999b 16.97MB / 16.97MB
=> => sha256:f413d6ebcd834b5f63178455d406dc425e2z2d382c1ab7ee9e549b18e5624 403B / 403B
=> => sha256:f8a36d502a5c73cf8eeff48e57ab8343a03b1d528992ba0d966d4f853309a 1.40kB / 1.40kB
=> => sha256:3eaba6cd10a374d9ed292c26d76a258e20ddfa0997151198aa620dcf3fae4 955B / 955B
=> => sha256:194fa24e147df0010e146240d3b4bd25d04180c523d c717e645b269991483e3 628B / 628B
=> => sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db454b0c5b910e80a 1.84MB / 1.84MB
=> => sha256:d5d625d57d9971fe0ac1582a78935ad8058b2c3d613c98822e5dfa1b 3.80MB / 3.80MB
=> => extracting sha256:d35deb57d9971fe0ac1582a78935ad8058b2c3d613c98822e5dfa1b
=> => extracting sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db454b0c5b910e80a
=> => extracting sha256:194fa24e147df0010e146240d3b4bd25d04180c523d c717e645b269991483e3
=> => extracting sha256:3eaba6cd10a374d9ed292c26d76a258e20ddfa0997151198aa620dcf3fae4
=> => extracting sha256:df413d6ebcd834b5f63178455d406dc425e2z2d382c1ab7ee9e549b18e5624
=> => extracting sha256:d9a55dab5954588334096b28b351999099bea5eb3c68c10e99f715b12c97198d
=> => extracting sha256:ff8a36d502a5c73cf8eeff48e57ab8343a03b1dd528992ba0d966df853309a
=> => extracting sha256:dbabb0d442710d667f4fd871b5fd215cc2a430a95b192bc88bf458b6e0999b
[internal] load build context
=> transferring context: 2.61MB
=> [2/3] COPY build /usr/share/nginx/html
=> [3/3] COPY nginx.conf /etc/nginx/conf.d/default.conf
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:393539e9c2f71ad84ef74501689f009b5c8b079822ba67e14b7ab7074c70ed65
=> => exporting config sha256:5d62a5201e2d1a0f06a564849a801f0edf1c6f94312b4bd25d6d9a9a
=> => exporting attestation manifest sha256:03856e62c6431602e34999c0374d51f482fcfa60a8e3c5656b1d4a04271ca7a7
=> => exporting manifest list sha256:ad9cbf4c0de36a438836e5e05cd5d15dfe48fb69b38ab1ac954a1bc043775bc2
=> => naming to docker.io/library/your-app:latest
=> => unpacking to docker.io/library/your-app:latest

C:\Users\USER\Downloads\devops-build-by-Abхи>docker run -d -p 8080:80 your-app
f234b2d51408f93d2a088adfd92d5affd842d792499706e230fdcc79487clf

C:\Users\USER\Downloads\devops-build-by-Abхи>docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
f234b2d51408 ... "/docker-entrypoint..." About a minute ago Up About a minute (unhealthy) 0.0.0.0:8080->80/tcp, [:]:8080->80/tcp sad_euler
cp 57f66fb55e4c trend-app:latest "docker-entrypoint.s..." 4 days ago Exited (255) 3 days ago 0.0.0.0:3000->3000/tcp romantic_mcnulty
a0279f1ace5e gcr.io/k8s-minikube/kicbase:v0.0.48 "/usr/local/bin/entr..." 7 weeks ago Exited (255) 4 hours ago 127.0.0.1:32768->22/tcp, 127.0.0.1:32768->443/tcp
```



```

ubuntu@ip-172-31-4-138 ~ + 
Microsoft Windows [Version 10.0.26200.7171]
(c) Microsoft Corporation. All rights reserved.

C:\Users\USER>cd Downloads

C:\Users\USER\Downloads>ssh -i "project-3.pem" ubuntu@ec2-65-2-79-35.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-65-2-79-35.ap-south-1.compute.amazonaws.com (65.2.79.35)' can't be established.
ED25519 key fingerprint is SHA256:quD6kl2NwEJiybFG/hRrWK5bvc37dcK4vrE4AvenxCg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-65-2-79-35.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Tue Nov 18 12:01:22 UTC 2025

System load: 0.49      Processes:          120
Usage of /: 6.2% of 28.02GB   Users logged in:  0
Memory usage: 2%           IPv4 address for enX0: 172.31.4.138
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by

```

```

To https://github.com/Abhi-mishra998/devops-build-by-Abhi.git
 * [new branch]      dev -> dev
branch 'dev' set up to track 'origin/dev'.
PS C:\Users\USER\Downloads\devops-build-by-Abhi> git checkout -b prod
Switched to a new branch 'prod'
PS C:\Users\USER\Downloads\devops-build-by-Abhi> git checkout -b dev
fatal: a branch named 'dev' already exists
PS C:\Users\USER\Downloads\devops-build-by-Abhi> git checkout dev
Switched to branch 'dev'
Your branch is up to date with 'origin/dev'.
PS C:\Users\USER\Downloads\devops-build-by-Abhi> git branch
* dev
  main
  prod
PS C:\Users\USER\Downloads\devops-build-by-Abhi> 

```

Repositories / dev / General

abhishek8056/dev

Last pushed 4 minutes ago • Repository size: 3.6 MB • ⭐0 • ↓0

Development images for React application

Add a category

General Tags Image Management BETA Collaborators Webhooks Settings

Tags

Tag	OS	Type	Pulled	Pushed
latest	⚠️	Image	less than 1 day	4 minutes
v1.0.0	⚠️	Image	less than 1 day	4 minutes

[See all](#)

Docker commands

To push a new tag to this repository:

```
docker push abhishek8056/dev:tagname
```

Using 1 of 1 private repositories.

Docker commands

To push a new tag to this repository:

```
docker push abhishek8056/dev:tagname
```

Public view

Build with Docker Build Cloud

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

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

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

hub Explore My Hub

Search Docker Hub CtrlK

Using 1 of 1 private repositories.

Docker commands

To push a new tag to this repository:

```
docker push abhishek8056/prod:tagname
```

abhishek8056/prod

Last pushed less than a minute ago · Repository size: 22.3 MB · ⭐0 · 0

Production images for React application

Add a category

General Tags Image Management BETA Collaborators Webhooks Settings

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	Image		less than 1 day	2 minutes
v1.0.0	Image		less than 1 day	2 minutes

[See all](#)

buildcloud

Build with Docker Build Cloud

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

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

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

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker images
IMAGE           ID          DISK USAGE   CONTENT SIZE  EXTRA
abhishek8056/dev:latest b04216e961a6  83.2MB     23.4MB
abhishek8056/dev:v1.0.0 b04216e961a6  83.2MB     23.4MB
abhishek8056/prod:latest d7faaa185cbd6  83.2MB     23.4MB
abhishek8056/prod:v1.0.0 d7faaa185cbd6  83.2MB     23.4MB
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker run -d -p 8081:80 abhishek8056/dev:v1.0.0
f8c757c4ddba9ff0d5283a65aae6a12a5fe6d491ff23186af19cfb938cd16
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker run -d -p 8082:80 abhishek8056/prod:v1.0.0
52df17c9ff0d92afdb51602ff0f63d35d8fd7c636bf35334f804cb19b8
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker images
IMAGE           ID          DISK USAGE   CONTENT SIZE  EXTRA
abhishek8056/dev:latest b04216e961a6  83.2MB     23.4MB
abhishek8056/dev:v1.0.0 b04216e961a6  83.2MB     23.4MB
abhishek8056/prod:latest d7faaa185cbd6  83.2MB     23.4MB
abhishek8056/prod:v1.0.0 d7faaa185cbd6  83.2MB     23.4MB
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a
CONTAINER ID  IMAGE          COMMAND      CREATED        STATUS          PORTS          NAMES
52df17c9ff0d  abhishek8056/prod:v1.0.0  "/docke...  3 minutes ago  Up 3 minutes (unhealthy)  0.0.0.0:8082->80/tcp, [::]:8082->80/tcp  admiring_mendel
f8c757c4ddba  abhishek8056/dev:v1.0.0    "/docke...  10 minutes ago Up 10 minutes (unhealthy)  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker stop admiring_mendel
admiring_mendel
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker stop vigorous_goldstine
Error response from daemon: No such container: vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a
CONTAINER ID  IMAGE          COMMAND      CREATED        STATUS          PORTS          NAMES
52df17c9ff0d  abhishek8056/prod:v1.0.0  "/docke...  3 minutes ago  Exited (0) 35 seconds ago  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  admiring_mendel
f8c757c4ddba  abhishek8056/dev:v1.0.0    "/docke...  11 minutes ago Up 11 minutes (unhealthy)  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker stop vigorous_goldstine
Error response from daemon: No such container: vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker stop vigorous_goldstine
vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a
CONTAINER ID  IMAGE          COMMAND      CREATED        STATUS          PORTS          NAMES
52df17c9ff0d  abhishek8056/prod:v1.0.0  "/docke...  5 minutes ago  Exited (0) About a minute ago  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  admiring_mendel
f8c757c4ddba  abhishek8056/dev:v1.0.0    "/docke...  12 minutes ago Exited (0) 14 seconds ago  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  vigorous_goldstine
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi|
```

```
=> => unpacking to docker.io/abhishek8056/prod:v1.0.0
=> => naming to docker.io/abhishek8056/prod:latest
=> => unpacking to docker.io/abhishek8056/prod:latest
[SUCCESS] Docker image built in 2 seconds
[INFO] Image size: 83.2MB
[SUCCESS] Image verified in local Docker registry
[INFO] Testing image locally...
[INFO] Test container started: e4c774527cf66033fb8ac05b80e94b7339668891a343818049da32495647b31d (host:8081 -> container:80)
[INFO] Waiting for the app to become ready...
[SUCCESS] Application is responding on port 8081
[SUCCESS] Test container cleaned up
[INFO] Logging in to Docker Hub (if credentials available)...
[WARNING] DOCKERHUB_USERNAME/DOCKERHUB_TOKEN not set; using existing docker credentials (if any)
[INFO] Pushing abhishek8056/prod:v1.0.0...
The push refers to repository [docker.io/abhishek8056/prod]
6f1857e1a34e: Pushed
8757ab621e28: Mounted from abhishek8056/dev
df413d6ebdc8: Mounted from abhishek8056/dev
d9a55dab5954: Mounted from abhishek8056/dev
bdabb0d4271: Mounted from abhishek8056/dev
ff8a36d502a: Mounted from abhishek8056/dev
2d35ebdb57d9: Mounted from abhishek8056/dev
8f6aa6833e95d: Mounted from abhishek8056/dev
194fa24e147d: Mounted from abhishek8056/dev
3eba6bcd10a3: Mounted from abhishek8056/dev
8c9e17c5bffd0: Mounted from abhishek8056/dev
v1.0.0: digest: sha256:d7faaa185cbd6b4489e9909c870644dc7cea97cb6805f7c70b376681b1c629e92 size: 856
[SUCCESS] Pushed abhishek8056/prod:v1.0.0
[INFO] Pushing abhishek8056/prod:latest...
The push refers to repository [docker.io/abhishek8056/prod]
194fa24e147d: Layer already exists
3eba6bcd10a3: Layer already exists
8757ab621e28: Layer already exists
8f6aa6833e95d: Layer already exists
df413d6ebdc8: Layer already exists
d9a55dab5954: Layer already exists
ff8a36d502a: Layer already exists
bdabb0d4271: Layer already exists
8c9e17c5bffd0: Layer already exists
6f1857e1a34e: Already exists
2d35ebdb57d9: Layer already exists
latest: digest: sha256:d7faaa185cbd6b4489e9909c870644dc7cea97cb6805f7c70b376681b1c629e92 size: 856
[SUCCESS] Pushed abhishek8056/prod:latest
[SUCCESS] Build metadata saved to build-logs/build-prod-v1.0.0-20251119-033648.log
[SUCCESS] Build completed successfully!
```

```

root@ip-172-31-4-138:~/onlineshopping/devops-build-by-Abhi# git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
root@ip-172-31-4-138:~/onlineshopping/devops-build-by-Abhi# ./scripts/build.sh dev v1.0.0
[WARNING] .env file not found. Using default values.
[INFO] =====
[INFO] Docker Build Configuration
[INFO] Environment: dev
[INFO] Version: v1.0.0
[INFO] Image Name: abhishek8056/dev:v1.0.0
[INFO] Image Latest: abhishek8056/dev:latest
[INFO] Host Port (test): 8081
[INFO] =====
[SUCCESS] Docker is running
[SUCCESS] Dockerfile found
[SUCCESS] Pre-built React app found in build/ directory
[INFO] Building Docker image (this may take a few minutes)...
[*] Building 1.9s (9/9) FINISHED
    => [internal] load build definition from Dockerfile
    => => transferring dockerfile: 487B
    => [internal] load metadata for docker.io/library/nginx:alpine
    => [auth] library/nginx:pull token for registry-1.docker.io
    => [internal] load .dockerignore
    =>> transferring context: 755B
    => [1/3] FROM docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb438e32f646adcfc92441b72f82b14
    =>> resolve docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb438e32f646adcfc92441b72f82b14
    => [internal] load build context
    =>> transferring context: 2.61MB
    => CACHED [2/3] COPY build /use/share/nginx/html
    => CACHED [3/3] COPY nginx.conf /etc/nginx/conf.d/default.conf
    => exporting to image
    => => exporting layers
    => => exporting manifest sha256:6ed68fefc1312da067f3ce11e8992612c948794c68f1e3b6c5d79447b976e0
    => => exporting config sha256:0f946cc56c3463a2312ebe189743f76a56678689cd25e0e96d16563923775c
    => => exporting attestation manifest sha256:1c6950692d707e6f37b7ax90f55d16a07cb016219384159a2b5baed27f9e03
    => => exporting Manifest sha256:002016e961ad6e99334230d93d16e87938107939c755/edaa91bf63452077566
    => => naming to docker.io/abhishek8056/dev:v1.0.0
    => => unpacking to docker.io/abhishek8056/dev:v1.0.0
    => => naming to docker.io/abhishek8056/dev:latest

```

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker images
IMAGE           ID          DISK USAGE   CONTENT SIZE   EXTRA
abhishek8056/dev:latest  b04216e961a6    83.2MB      23.4MB
abhishek8056/dev:v1.0.0  b04216e961a6    83.2MB      23.4MB
abhishek8056/prod:latest d7faa185cbd6    83.2MB      23.4MB
abhishek8056/prod:v1.0.0 d7faa185cbd6    83.2MB      23.4MB
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker run -d -p 8081:80 abhishek8056/dev:v1.0.0
f8c757c4ddba9ff0d5283a65aae61a5fe5edfed491ff4231864f19cf983cd16
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker run -d -p 8082:80 abhishek8056/prod:v1.0.0
52df1f7cf9d93079d2afdb516b2ff0f63d335d8fd7c636bf35334f804cb19b8
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# |
```

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker images


| IMAGE                    | ID           | DISK USAGE | CONTENT SIZE | EXTRA |
|--------------------------|--------------|------------|--------------|-------|
| abhishek8056/dev:latest  | b04216e961a6 | 83.2MB     | 23.4MB       |       |
| abhishek8056/dev:v1.0.0  | b04216e961a6 | 83.2MB     | 23.4MB       |       |
| abhishek8056/prod:latest | d7faa185cbd6 | 83.2MB     | 23.4MB       |       |
| abhishek8056/prod:v1.0.0 | d7faa185cbd6 | 83.2MB     | 23.4MB       |       |



```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# |
```

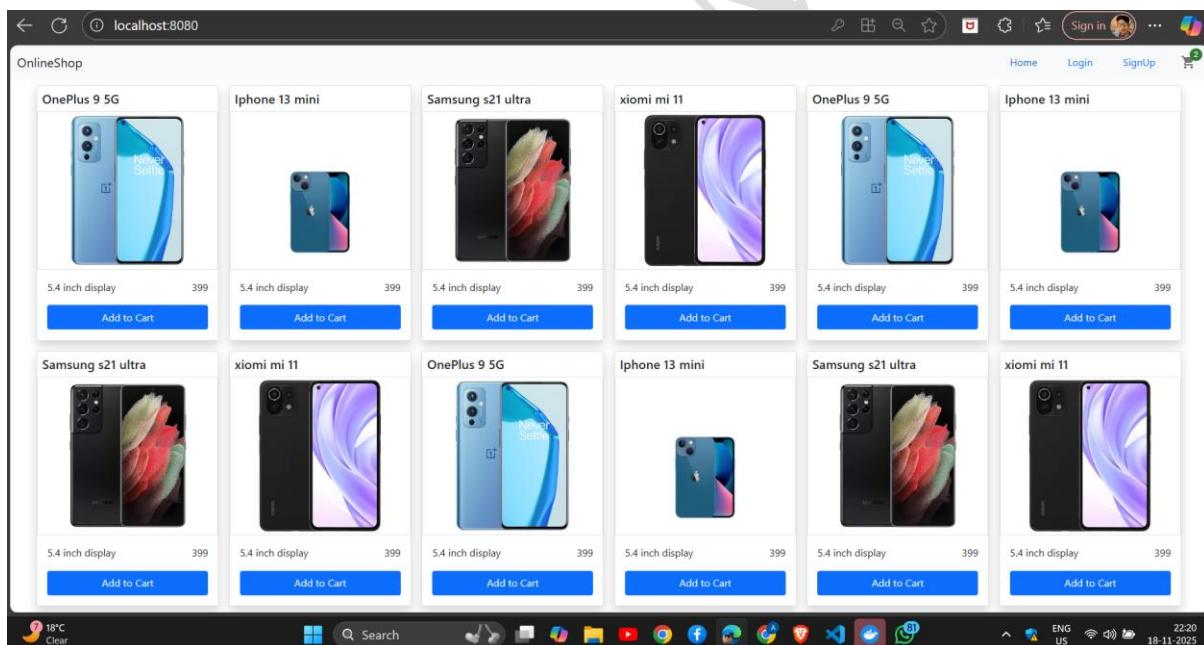

```

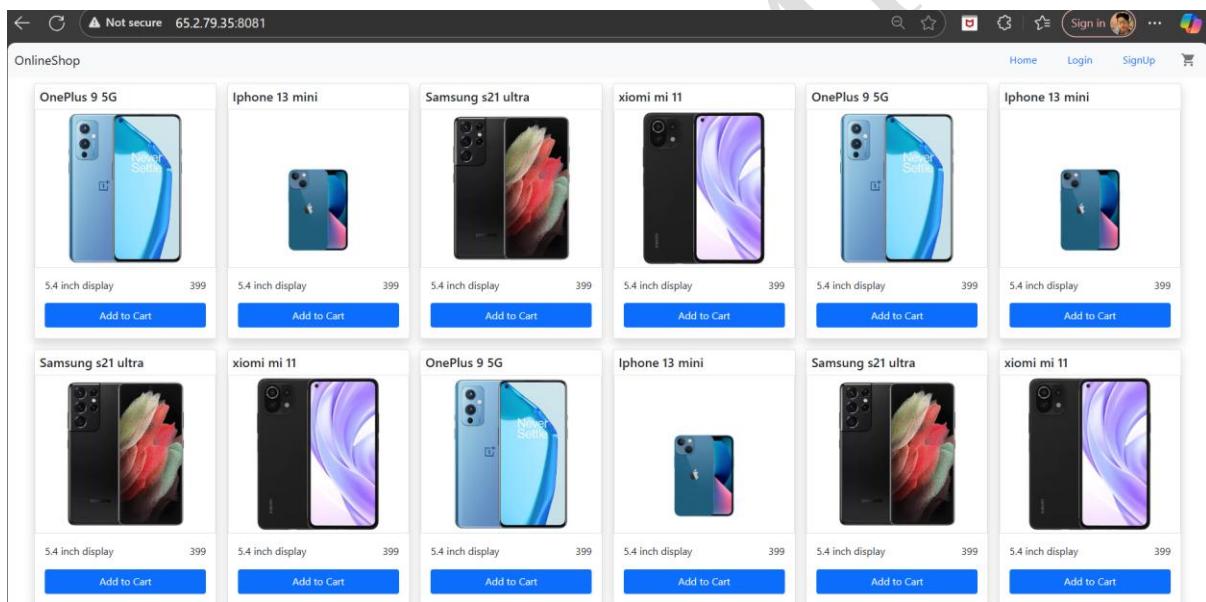
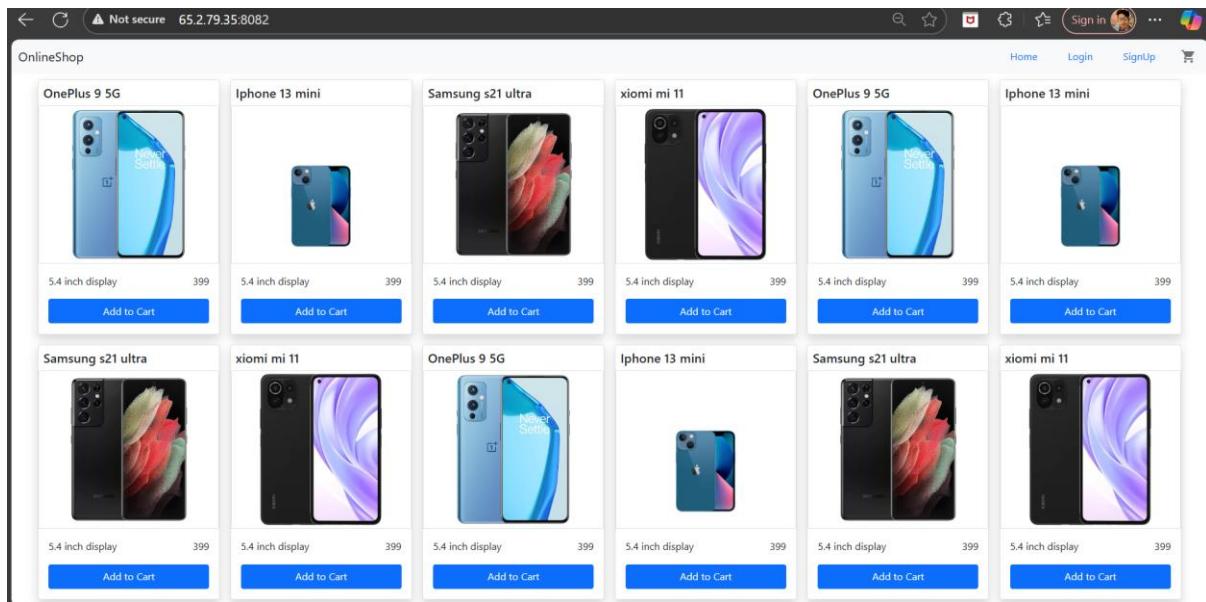
```
[root@ip-172-31-4-188 ~]# ./onlineShopping/devops-build-by-Ahish# ./scripts/build.sh prod v1.0.0
[WARNING] .env file not found. Using default values.
[INFO] =====
[INFO] Docker Build Configuration
[INFO] Environment: prod
[INFO] Version: v1.0.0
[INFO] Image Name: abhishek8056/prod:v1.0.0
[INFO] Image Latest: abhishek8056/prod:latest
[INFO] Host Port (test): 8081
[INFO] =====
[INFO] Docker is running
[INFO] Dockerfile found
[INFO] Pre-build app found in build/ directory
[INFO] Building Docker image (this may take a few minutes)...
[INFO] Building 1/9 (8/8) FINISHED
[*] [internal] load build definition from Dockerfile
=> => transferring dockerfile: 487B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load .dockerignore
=> transferring context: 7558
=> [1/3] FROM docker.io/library/nginx:alpine@sha256:b3c566455d7ad751196f21b7fd2e8d4da9cb438e32f646adc92441b72f82b14
=> => resolve docker.io/library/nginx:alpine@sha256:b3c566455d7ad751196f21b7fd2e8d4da9cb438e32f646adc92441b72f82b14
=> [internal] load build context
=> transferring context: 8078
=> CACHED [2/3] COPY build /usr/share/nginx/html
=> CACHED [3/3] COPY nginx.conf /etc/nginx/conf.d/default.conf
=> exporting manifest sha256:6add68f9fc1312dfa067f3calle0992612c940794c68f1a3b6c5d79447b976e0
=> => exporting layers
=> => exporting manifest sha256:d50296cc58c5463a523112be1b973076ba5b607b6899cf25e096d1656392377bc
=> => exporting attestation manifest sha256:d50296cc58c5463a523112be1b973076ba5b607b6899cf25e096d1656392377bc
=> => exporting manifest list sha256:d7faa185c6bd64489e9990c87064dc7cea97cb68805f7c70b3776681b1c629e92
=> => naming to docker.io/abhishek8056/prod:v1.0.0
=> => naming to docker.io/abhishek8056/prod:latest
=> => unpacking to docker.io/abhishek8056/prod:latest
=> => unpacking to docker.io/abhishek8056/prod:latest
[INFO] Docker image built in 2 seconds
[INFO] Image size: 83.2MB
[INFO] Image pushed to local Docker registry
[INFO] Test image locally.
[INFO] Test container started: e4c774527cf66833fb8ac5b80e94b7339668891a343818049da32495647b31d (host:8081 -> container:80)
[INFO] Waiting for the app to become ready...
[INFO] Application is responding on port 8881
[INFO] Test container cleaned up
[INFO] Logging in to Docker Hub (if credentials available)...
```

```

[SUCCESS] Docker image built in 2 seconds
[INFO] Image size: 83.2MB
[SUCCESS] Image verified in local Docker registry
[INFO] Testing image locally...
[INFO] Test container started: 72a3fd1ab5cf1475d8dbe128192d7ec645899e1161cf464dc7f23c66c53d81a (host:8081 -> container:80)
[INFO] Waiting for the app to become ready...
[SUCCESS] Application is responding on port 8081
[SUCCESS] Test container cleaned up
[INFO] Logging in to Docker Hub (if credentials available)...
[WARNING] DOCKERHUB_USERNAME/DOCKERHUB_TOKEN not set; using existing docker credentials (if any)
[INFO] Pushing abhishek8056/dev:v1.0.0...
The push refers to repository [docker.io/abhishek8056/dev]
ff8a36d5502a: Pushed
8757ab621e28: Pushed
d9a5da5954: Pushed
bdabbdd44271: Pushed
8c9e17c5bffd0: Pushed
e803c7e31534: Pushed
2d35ebdb57d9: Pushed
8f6a6833e95d: Pushed
194fa24e147d: Pushed
3eaba6cd10a3: Pushed
df413d6ebdc8: Pushed
v1.0.0 digest: sha256:b04216e961a6b09334230d393d67d9381d7939c7557edalaa91bf63452077506 size: 856
[SUCCESS] Pushed abhishek8056/dev:v1.0.0
[INFO] Pushing abhishek8056/dev:latest...
The push refers to repository [docker.io/abhishek8056/dev]
2d35ebdb57d9: Layer already exists
8f6a6833e95d: Layer already exists
3eaba6cd10a3: Layer already exists
df413d6ebdc8: Layer already exists
ff8a36d5502a: Layer already exists
e803c7e31534: Already exists
8757ab621e28: Layer already exists
194fa24e147d: Layer already exists
d9a5da5954: Layer already exists
bdabbdd44271: Layer already exists
8c9e17c5bffd0: Layer already exists
latest digest: sha256:b04216e961a6b09334230d393d67d9381d7939c7557edalaa91bf63452077506 size: 856
[SUCCESS] Pushed abhishek8056/dev:latest
[SUCCESS] Build metadata saved to build-logs/build-dev-v1.0.0-20251119-033512.log
[SUCCESS] Build completed successfully!
[INFO] Image: abhishek8056/dev:v1.0.0
[INFO] Host port (test): 8081
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# |

```





localhost:8080/cart

OnlineShop

Home Login SignUp

Shopping Cart

#	Product	Price	Quantity	Total
1	OnePlus 9 5G 5.4 inch display Remove	\$399	- 1 +	\$399
1	Iphone 13 mini 5.4 inch display Remove	\$399	- 1 +	\$399

[Clear Cart](#) SubTotal: \$798

Taxes and Shipping Calculated

[Login to CheckOut](#) [Continue Shopping](#)

Webhooks / Add 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://65.2.79.35:8080/github-webhook/

Content type *
application/json

Secret
[Redacted]

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

Which events would you like to trigger this webhook?

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

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

Add webhook

```

root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# nano test.txt
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git add .
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git commit -m "testing"
[dev a196e1e] testing
Committer: root <root@ip-172-31-4-138.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

git config --global user.name "Your Name"
git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git push
Username for 'https://github.com': Abhi-mishra998
Password for 'https://Abhi-mishra998@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 577 bytes | 577.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/Abhi-mishra998/devops-build-by-Abhi.git
  d8d61a1..a196e1e dev -> dev
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi#

```

The screenshot shows a web-based interface for managing webhooks. At the top, there's a header bar with tabs for 'Settings' and 'Recent Deliveries'. Below this, a list of deliveries is shown, with one entry highlighted:

- Delivery ID:** 823be67a-c4a2-11f8-8cf8-a08e22361e92
- Event:** ping
- Timestamp:** 2025-11-18 22:47:51
- Status:** Completed in 0.72 seconds.

The interface includes two tabs: 'Request' (selected) and 'Response'. The 'Request' tab displays the following details:

- Request URL: http://65.2.79.35:8080/github-webhook/
- Request method: POST
- Accept: */*
- Content-Type: application/json
- User-Agent: GitHub-Hookshot/v2-071502b
- X-GitHub-Delivery: 823be67a-c4a2-11f8-8cf8-a08e22361e92
- X-GitHub-Event: ping
- X-GitHub-Hook-ID: 581675255
- X-GitHub-Hook-Installation-Target-ID: 1095769673
- X-GitHub-Hook-Installation-Target-Type: repository

The 'Response' tab shows a JSON payload:

```

{
  "zen": "Avoid administrative distraction.",
  "hook_id": 581675255,
  "hook": {
    "type": "Repository",
    "id": 581675255,
    "name": "web",
    "active": true,
    "events": [
      "push"
    ],
    "config": {
      "content_type": "json",
      "insecure_ssl": "0",
      "url": "http://65.2.79.35:8080/github-webhook/"
    },
    "updated_at": "2025-11-18T17:17:49Z",
    "created_at": "2025-11-18T17:17:49Z"
  }
}

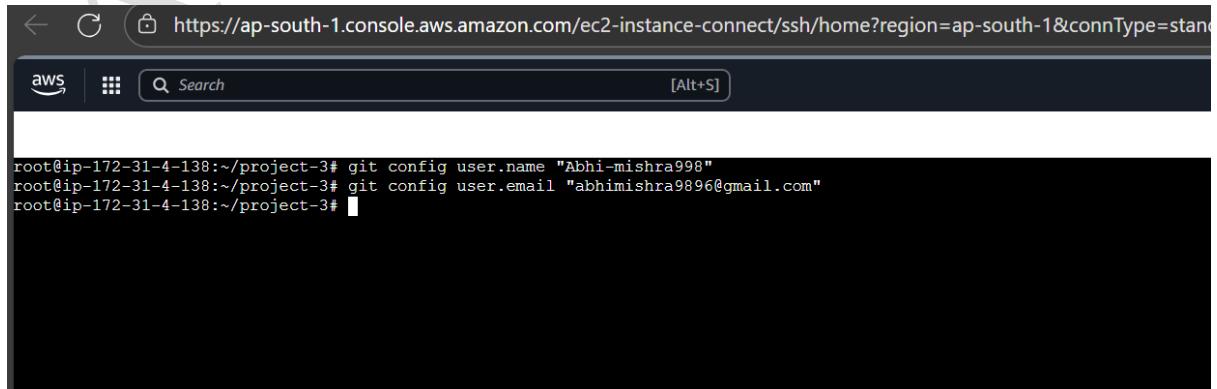
```

```
root@ip-172-31-4-138:~/onlineishoping/devops-build-by-Abhi# cd ..
root@ip-172-31-4-138:~/onlineishoping# cd ~
root@ip-172-31-4-138:~# sudo usermod -aG docker jenkins
root@ip-172-31-4-138:~# sudo systemctl restart docker
Warning: The unit file, source configuration file or drop-ins of docker.service changed on disk. Run 'systemctl daemon-reload' to reload units.
root@ip-172-31-4-138:~# sudo systemctl restart jenkins
Warning: The unit file, source configuration file or drop-ins of jenkins.service changed on disk. Run 'systemctl daemon-reload' to reload units.
root@ip-172-31-4-138:~# sudo su - jenkins
jenkins@ip-172-31-4-138:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
jenkins@ip-172-31-4-138:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
jenkins@ip-172-31-4-138:~$ |
```

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker rm admiring_mendel  
admiring_mendel  
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker rm vigorous_goldstine  
vigorous_goldstine  
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# |
```

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# ls
COMPLETE-SETUP-GUIDE.md Dockerfile Jenkinsfile README.md build docker-compose.yml monitoring nginx.conf package.json scripts
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git branch
* dev
  main
  prod
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git switch
fatal: missing branch or commit argument
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git branch
  dev
* main
  prod
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# git merge dev
Updating 4a3lad3..0166e5a
Fast-forward
  Dockerfile      |  2 ++
  scripts/build.sh | 344 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++
  scripts/deploy.sh|   0
3 files changed, 177 insertions(+), 169 deletions(-)
mode change 100644 => 100755 scripts/build.sh
mode change 100644 => 100755 scripts/deploy.sh
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi#
```

```
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
cfc3efac12f7 2a78986f6b85 "/docker-entrypoint..." 27 minutes ago Exited (0) 22 seconds ago my-react-nginx
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker stop my-react-nginx
my-react-nginx
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker rm my-react-nginx
my-react-nginx
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi#
```



```

root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi/monitoring# rm -r start-monitoring.sh
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi/monitoring# ls
README.md alert-config.example.json docker-compose.yml
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi/monitoring# nano start-monitoring.sh
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi/monitoring# chmod +x start-monitoring.sh
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi/monitoring# cd ..
root@ip-172-31-4-138:~/onlineshoping/devops-build-by-Abhi# ./monitoring/start-monitoring.sh
=====
Starting Monitoring System
=====
[INFO] Docker is running
[INFO] Pulling Uptime Kuma image...
[WARN@000] /root/onlineshoping/devops-build-by-Abhi/monitoring/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[*] Pulling 14/14
  ✓ uptime-kuma Pulled
    ✓ ab019b589bd1 Pull complete          13.2s
    ✓ ad1253342b11 Pull complete          0.5s
    ✓ 05489cad7e07 Pull complete          10.6s
    ✓ 2da5495de763 Pull complete          0.8s
    ✓ 0009b3591d80 Pull complete          5.6s
    ✓ b5cfa7561d79 Pull complete          6.0s
    ✓ f7607ceb74d22 Pull complete          0.7s
    ✓ 1f16337721583 Pull complete          6.18s
    ✓ b338562f40a07 Pull complete          0.5s
    ✓ b74bf4d93720 Pull complete          4.55s
    ✓ d955db85b85 Pull complete          3.0s
    ✓ c2706596bd17 Pull complete          0.8s
    ✓ 2c706596bd17 Pull complete          4.6s
    ✓ 2c706596bd17 Pull complete          0.7s
[INFO] Starting Uptime Kuma...
[WARN@000] /root/onlineshoping/devops-build-by-Abhi/monitoring/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[*] Running 3/3
  ✓ Network monitoring_default      Created          0.0s
  ✓ Volume monitoring_uptime-kuma-data Created          0.0s
  ✓ Container uptime-kuma          Started          3.0s
[INFO] Waiting for startup...
[WARN@000] /root/onlineshoping/devops-build-by-Abhi/monitoring/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[SUCCESS] Monitoring system is running
Access dashboard: http://localhost:3001
Setup Instructions:
1. Open http://localhost:3001 in browser

```

 Jenkins / All / New Item Q ⌂ ⌂

New Item

Enter an item name

Select an item type

-  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.

Jenkins / Manage Jenkins / Credentials / System / Global credentials (unrestricted)

New credentials

Kind: Username with password

Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: abhishek8056

Treat username as secret

Password:

ID: dockerhub-credentials

Description:

Create

Jenkins / Manage Jenkins / System

SMTP server: smtp.gmail.com

Default user e-mail suffix:

Advanced

Use SMTP Authentication: User Name: opensourcetesting8056@gmail.com, Password:

Use SSL: Use TLS

SMTP Port: 465

Reply-To Address:

Charset: UTF-8

Test configuration by sending test e-mail: Test e-mail recipient: opensourcetesting8056@gmail.com

Email was successfully sent.

Test configuration

Jenkins / Manage Jenkins / Credentials

Credentials

T	P	Store	Domain	ID	Name
		System	(global)	dockerhub-credentials	abhishek8056/*********
		System	(global)	aws-credentials	AKIAUW36FX6DRYGAQ7C
		System	(global)	ec2-ssh-key	ubuntu
		System	(global)	github-token	Abhi-mishra998/*********
		System	(global)	DOCKERHUB_DEV_REPO	abhishek8056/dev/*********
		System	(global)	DOCKERHUB_PROD_REPO	abhishek8056/prod/*********

Stores scoped to Jenkins

P	Store	Domains
	System	(global)

Icon: S M L

[← App passwords](#)

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

You don't have any app passwords.
To create a new app specific password, type a name for it below...

App name

Create

[Privacy](#) [Terms](#) [Help](#) [About](#)

 react-app-dev

Stage View

	Declarative: Checkout SCM	Checkout	Build Docker Image	Test Image	Push to Docker Hub	Deploy to EC2	Health Check	Declarative: Post Actions
Average stage times: (full run time: ~46s)								
#3 Nov 19 13:39	2 commits	892ms	1s	2s	7s	12s	9s	11s
#2 Nov 19 13:26	1 commit	1s	2s	3s	6s	12s	9s	7min 15s failed
#1 Nov 19 13:22	No changes	1s	2s	1s failed	295ms failed	241ms failed	157ms failed	147ms failed

Permalinks

- Last build (#3), 2 min 8 sec ago
- Last stable build (#3), 2 min 8 sec ago
- Last successful build (#3), 2 min 8 sec ago
- Last failed build (#2), 14 min ago
- Last unsuccessful build (#2), 14 min ago
- Last completed build (#3), 2 min 8 sec ago

<input checked="" type="checkbox"/>	ssh a	AWSAccessKeyID within the Jenkins Credentials API. Also support IAM Roles and IAM MFA Token.	2 mo 27 days ago		
<input checked="" type="checkbox"/>	Pipeline Stage View 2.38	User Interface Pipeline Stage View Plugin.	6 mo 22 days ago		
<input checked="" type="checkbox"/>	Docker 1274.vc0203df2e74	Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	8 mo 16 days ago		
<input checked="" type="checkbox"/>	Docker Pipeline 634.vedc7242b_eda_7	pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	1 mo 6 days ago		
<input checked="" type="checkbox"/>	docker-build-step 2.12	Build Tools docker This plugin allows to add various docker commands to your job as build steps. Warning: This plugin version may not be safe to use. Please review the following security notices: • CSRF vulnerability and missing permission check	1 yr 5 mo ago		
<input checked="" type="checkbox"/>	Docker Compose Build Step 1.0	Docker Compose plugin for Jenkins	7 yr 4 mo ago		
<input checked="" type="checkbox"/>	SSH Agent 386.v36cc0c7582f0	This plugin allows you to provide SSH credentials to builds via a ssh-agent in Jenkins.	6 mo 8 days ago		

Install	Name	Released	Health
<input checked="" type="checkbox"/>	Git Pipeline for Blue Ocean 1.27.23	External Site/Tool Integrations User Interface BlueOcean Git SCM pipeline creator	1 mo 5 days ago
<input checked="" type="checkbox"/>	Github Integration 0.7.2	emailer Build Triggers GitHub Integration Plugin for Jenkins	10 mo ago
<input checked="" type="checkbox"/>	Github Authentication 651.v135e939eb0_60	github Security Authentication and User Management Authentication plugin using GitHub OAuth to provide authentication and authorization capabilities for GitHub and GitHub Enterprise.	7 mo 24 days ago
<input checked="" type="checkbox"/>	Pipeline GitHub 2.8-163.3824984056c	pipeline github Allows programmatic access to GitHub via new global variables in pipeline builds.	8 mo 12 days ago
<input checked="" type="checkbox"/>	AWS Credentials 254.v97ba_5e200a_d7	aws Allows storing Amazon IAM credentials within the Jenkins Credentials API. Store Amazon IAM access keys (AWSAccessKeyId and AWSSecretKey) within the Jenkins Credentials API. Also support IAM Roles and IAM MFA Token.	2 mo 27 days ago
<input checked="" type="checkbox"/>	Pipeline Stage View 2.38	User interface Pipeline Stage View Plugin.	6 mo 22 days ago
<input checked="" type="checkbox"/>	Docker 1274.vc0203df2e74	Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	8 mo 16 days ago
<input checked="" type="checkbox"/>	Docker Pipeline 634.vedc7242b_eda_7	pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	1 mo 6 days ago
<input checked="" type="checkbox"/>	docker-build-step 2.12	Build Tools docker This plugin allows to add various docker commands to your job as build steps. Warning: This plugin version may not be safe to use. Please review the following security notices: • CSRF vulnerability and missing permission check	1 yr 5 mo ago

Jenkins / react-app-dev #3 / Console Output

Status Changes Console Output Edit Build Information Polling Log Timings Git Build Data Open Blue Ocean Pipeline Overview Thread Dump Pause/Resume Replay Pipeline Steps Workspaces Previous Build

Console Output

```

Started by GitHub push by Abhi-mishra998
Obtained Jenkinsfile from git https://github.com/Abhi-mishra998/devops-build-by-Abhi.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/react-app-dev
[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/react-app-dev/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Abhi-mishra998/devops-build-by-Abhi.git # timeout=10
Fetching upstream changes from https://github.com/Abhi-mishra998/devops-build-by-Abhi.git
> git --version # git version 2.43.0*
> git fetch --tags --force --progress -- https://github.com/Abhi-mishra998/devops-build-by-Abhi.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/dev^{commit} # timeout=10
> git config core.sparsecheckout # timeout=10
> git checkout -f a196e1e99a94685af2a41c791d4e1bc6c42631ed (refs/remotes/origin/dev)
Commit message: "testing"
> git rev-list --no-walk d8d61a188c65574dbc224433acd1900d702a0f99 # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $DOCKERHUB_CREDENTIALS or $DOCKERHUB_CREDENTIALS_PSW or $AWS_CREDENTIALS or $AWS_CREDENTIALS_PSW or $GITHUB_TOKEN or $GITHUB_TOKEN_PSW or $EC2_SSH_KEY

```

```

#3 [internal] load .dockerrcignore
#3 transferring context: 7588 done
#3 DONE 0.0s

## [internal] load build context
## transferring context: 8676 done
## DONE 0.0s

#3 (1/3) FROM docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4d9cb430e12f646adcfc92441b72f82014
#3 resolve docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4d9cb430e32f646adcfc92441b72f82014 0.0s done
#3 DONE 0.0s

#6 (2/3) COPY build /usr/share/nginx/html
#6 CACHED

#7 (3/3) COPY nginx.conf /etc/nginx/conf.d/default.conf
#7 CACHED

## exporting to image
## exporting layers done
## exporting manifest digest:sha256:ed60f1c11a0ef7fb111e993a1548794cf15b8c5d5794a7b9746 done
## exporting config blobs:sha256:c2ec23ea2ac211e028137a8420889cc0878edc1020522778c done
## exporting artifact manifest digest:sha256:9dded5f19ee973704e055dc0339fc703ad4c70fffeacbf2f8a8708733aa8 0.0s done
## exporting manifest list sha256:454aaad0deccfcf4e46b0237aeef155a2259863465d30393c1ded39aaabbac
## exporting manifest list sha256:454aaad0deccfcf4e46b0237aeef155a2259863465d30393c1ded39aaabbac 0.0s done
## naming to docker.io/abhishek9856/dev/v1.0.3 done
## unpacking to docker.io/abhishek9856/dev/v1.0.3 done
## naming to docker.io/abhishek9856/dev/latest done
## unpacking to docker.io/abhishek9856/dev/latest done
#8 DONE 0.1s
[Pipeline] in
+ docker images
+ grep abhishek9856/dev
WARNING: This output is designed for human readability. For machine-readable output, please use --format.
abhishek9856/dev:latest      a54daad0de4c    83.2MB   23.4kB  U
abhishek9856/dev:v1.0.2      c888bbbae00    83.2MB   23.4kB  U
abhishek9856/dev:v1.0.3      a54daad0de4c    83.2MB   23.4kB  U
[Pipeline] script
[Pipeline] sh
+ docker images abhishek9856/dev:v1.0.3 --format {{.Size}}
[Pipeline] echo
Image Size: 83.2MB
[Pipeline] 
[Pipeline] // script
[Pipeline] runtest

```

All +

S	W	Name	Last Success	Last Failure	Last Duration	F
Green	Cloud	react-app-dev	3 min 15 sec #3	15 min #2	48 sec	
Green	Cloud	react-prod-pipeline	5 min 50 sec #2	20 min #1	49 sec	

Icon: S M L

Jenkins react-prod-pipeline #2 Pipeline Overview

Started 6 min 23 sec ago | Queued 7.3 sec | Took 49 sec | Changes

Graph

```

graph LR
    Start((Start)) --> CheckoutSCM[Checkout SCM]
    CheckoutSCM --> Checkout[Checkout]
    Checkout --> BuildDockerImage[Build Docker Image]
    BuildDockerImage --> TestImage[Test Image]
    TestImage --> PushToDockerHub[Push to Docker Hub]
    PushToDockerHub --> DeployToEC2[Deploy to EC2]
    DeployToEC2 --> HealthCheck[Health Check]
    HealthCheck --> PostActions[Post Actions]
    PostActions --> End((End))

```

Post Actions

- Checkout SCM: 0.87s
- Checkout: 1.6s
- Build Docker Image: 3.4s
- Test Image: 0.7s
- Push to Docker Hub: 11s
- Deploy to EC2: 8.7s
- Health Check: 11s
- Post Actions: 1.0s

1.0s | Started 5m 36s ago | Jenkins

Jenkins react-prod-pipeline #3 Pipeline Overview

Started 2 min 32 sec ago | Queued 9.8 sec | Took 48 sec | Changes

Graph

```

graph LR
    Start((Start)) --> CheckoutSCM[Checkout SCM]
    CheckoutSCM --> Checkout[Checkout]
    Checkout --> BuildDockerImage[Build Docker Image]
    BuildDockerImage --> TestImage[Test Image]
    TestImage --> PushToDockerHub[Push to Docker Hub]
    PushToDockerHub --> DeployToEC2[Deploy to EC2]
    DeployToEC2 --> HealthCheck[Health Check]
    HealthCheck --> PostActions[Post Actions]
    PostActions --> End((End))

```

Post Actions

- Checkout SCM: 0.86s
- Checkout: 1.6s
- Build Docker Image: 2.3s
- Test Image: 7.0s
- Push to Docker Hub: 11s
- Deploy to EC2: 8.7s
- Health Check: 11s
- Post Actions: 1.0s

1.0s | Started 2m 7s ago | Jenkins

Jenkins react-app-dev

Status | **react-app-dev** | Add description

<> Changes | ▶ Build Now | ⚙ Configure | 🗑 Delete Pipeline | Q Full Stage View | ★ Favorite | 🌐 Open Blue Ocean | 📄 Stages | 🔍 Rename | ⓘ Pipeline Syntax | 🛡 GitHub Hook Log | 🛡 Credentials

Stage View

Average stage times: (full run time: ~40s)

	Declarative: Checkout SCM	Checkout	Build Docker Image	Test Image	Push to Docker Hub	Deploy to EC2	Health Check	Declarative: Post Actions
Nov 19 15:41	1s	925ms	1s	3s	6s	11s	9s	11s
Nov 19 15:06	1s	921ms	1s	2s	6s	10s	9s	11s
Nov 19 15:03	1s	960ms	1s	3s	6s	12s	9s	11s
Nov 19 13:39	2s	892ms	1s	2s	7s	12s	9s	11s
Nov 19 13:26	1s	1s	2s	3s	6s	12s	9s	7min 15s failed
Nov 19 13:22	No Changes	1s	2s	1s failed	295ms failed	241ms failed	157ms failed	147ms failed

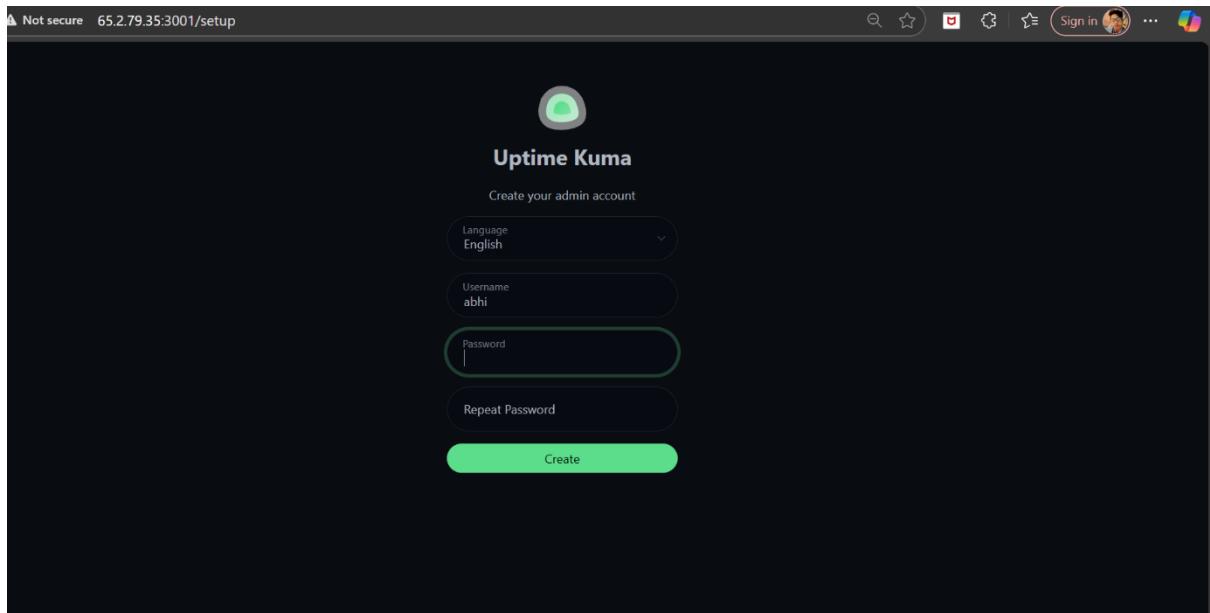
Builds

Filter

Today

- #6 10:11 AM
- #5 9:36 AM
- #4 9:33 AM
- #3 8:09 AM
- #2 7:56 AM

Permalinks



The screenshot shows the Uptime Kuma dashboard at the URL "65.2.79.35:3001/dashboard". The top navigation bar includes "New Update", "Status Pages", "Dashboard", and a user profile icon. The main area features a "Quick Stats" summary with counts for Up (0), Down (0), Maintenance (0), Unknown (0), and Pause (0). On the left, there's a sidebar with a "+ Add New Monitor" button, a search bar, and dropdown menus for "Status", "Active", and "Tags". A message at the bottom of the sidebar says "No Monitors, please [add one](#)". The bottom of the screen shows a Windows taskbar with various icons and system status information like weather, battery, and date/time.

Uptime Kuma

+ Add New Monitor

Select | Search... | Up | Active | Tags

100% project-view

project-view
http://65.2.79.35/

Pause Edit Clone Delete

Check every 60 seconds

Up

Response (Current) 7ms

Avg. Response (24-hour) N/A

Uptime (24-hour) 100%

Uptime (30-day) 100%

Recent

7.4
7.3
7.2
7.1
7.0
6.9
6.8
6.7
6.6

This screenshot shows the Uptime Kuma interface for monitoring the 'project-view' service at 'http://65.2.79.35/'. The status is 'Up' with a green bar. The response time is currently 7ms. The average response time over 24 hours is listed as 'N/A'. The 24-hour uptime is 100%, and the 30-day uptime is also 100%. A line graph shows the response time fluctuating between 6.5 and 7.4 ms over the last hour.

Uptime Kuma

+ Add New Monitor

Select | Status | Active | Tags

100% project-view

project-view
http://65.2.79.35/

Pause Edit Clone Delete

40s ago now

Check every 60 seconds

Up

Response (Current) 5ms

Avg. Response (24-hours) 4 ms

Uptime (24-hour) 100%

Uptime (30-day) 100%

Recent

8.0
7.0
6.0
5.0
4.0
3.0

14.15 14.16 14.17 14.18 14.19 14.20 14.21 14.22 14.23 14.24 14.25 14.26 14.27 14.28 14.29 14.30 14.31 14.32 14.33 14.34 14.35 14.36 14.37 14.38 14.39 14.40 14.41 14.42 14.43 14.44 14.45 14.46 14.47 14.48 14.49 14.50 14.51 14.52 14.53 14.54 14.55

Status Up

Date/Time 2025-11-19 14:17:28

Message 200 - OK

Clear Data

This screenshot shows the same Uptime Kuma interface for the 'project-view' service. The status is 'Up' with a green bar. The response time is currently 5ms. The average response time over 24 hours is 4 ms. The 24-hour uptime is 100%, and the 30-day uptime is also 100%. A line graph shows the response time fluctuating between 3.0 and 8.0 ms over the last hour, with a notable peak around 14:38. The status is marked as 'Up' with a green button, and the message is '200 - OK'.

Setup Notification

Notification Type
Email (SMTP)

Friendly Name
Email Alert

Hostname
smtp.gmail.com

Either enter the hostname of the server you want to connect to or **localhost** if you intend to use a [locally configured mail transfer agent](#).

Port
465

Security
TLS (465)

Ignore TLS Error

Username

Password
rpqie dplsw xfkl ntpc

From Email
opensourcetesting8056@gmail.com

To Email
opensourcetesting8056@gmail.com

CC

BCC

DKIM Settings

Custom Subject

(Leave blank for default one)
([NAME]): Service Name
([HOSTNAME_OR_URL]): Hostname or URL
([STATUS]): Status

Default enabled
This notification will be enabled by default for new monitors. You can still disable the notification separately for each monitor.

Apply on all existing monitors

Test **Save**

The screenshot shows the Gmail inbox with two test emails from "Email Alert Testing".

Primary **Promotions** **Social**

<input type="checkbox"/>	star me	Email Alert Testing - Email Alert Testing	3:35 PM
<input type="checkbox"/>	star me	Email Alert Testing - Email Alert Testing	3:35 PM

Test email #1 Inbox**address not configured yet** <opensourcetesting8056@gmail.com>
to me ▾

3:24 PM (13 minutes ago)



This is test email #1 sent from Jenkins

Reply

Forward

SUCCESS: react-app-dev #8 Inbox**address not configured yet** <opensourcetesting8056@gmail.com>
to me ▾

10:12 AM (6 minutes ago)



Build Status: SUCCESS

Environment: dev

Branch: null

Commit: 2e5847a

Image: abhishek8056/dev:v1.0.8

URL: <http://65.2.79.35>Build URL: <http://65.2.79.35:8080/job/react-app-dev/8/>

Reply

Forward



```
DEBUG SMTP: sendPartial set
RCPT TO:<opensourcetesting8056@gmail.com>
250 2.1.5 OK d2e1a72fcca58-7c3ed076244sm1072580b3a.7 - gsmtp
DEBUG SMTP: Verified Addresses
DEBUG SMTP:  opensourcetesting8056@gmail.com
DATA
354 Go ahead d2e1a72fcca58-7c3ed076244sm1072580b3a.7 - gsmtp
Date: Thu, 20 Nov 2025 04:41:59 +0000 (UTC)
From: address not configured yet <nobody@nowhere>
To: opensourcetesting8056@gmail.com
Message-ID: <1082025759.6.1763613722423@ip-172-31-4-138.ap-south-1.compute.internal>
Subject: SUCCESS: react-app-dev #8
MIME-Version: 1.0
Content-Type: multipart/mixed;
    boundary="-----_Part_5_1662814682.1763613719988"
X-Jenkins-Job: react-app-dev
X-Jenkins-Result: SUCCESS
List-ID:

-----_Part_5_1662814682.1763613719988
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 7bit

Build Status: SUCCESS
```