

REACT-APP APPLICATION DEPLOYMENT:

EC2 SETUP:

Instance summary for i-0a1d4807773ffd208 (ReactApp-Project1-guvi) [Info](#)

Updated less than a minute ago

Instance ID	i-0a1d4807773ffd208	Public IPv4 address	54.82.48.175 open address
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-172-31-31-203.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-31-203.ec2.internal
Answer private resource DNS name	-	Instance type	t2.micro
Auto-assigned IP address	54.82.48.175 [Public IP]	VPC ID	vpc-05dbcd6502c25264
IAM Role	-	Subnet ID	subnet-0206243b86e402d13
IMDSv2	Required	Instance ARN	arn:aws:ec2:us-east-1:047447426147:instance/i-0a1d4807773ffd208
Operator		Managed	false

Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups
-	sgr-0029fd98cd002cf83	9090	TCP	0.0.0.0/0	launch-wizard-2
-	sgr-0d9ebe373f890fb37	8080	TCP	49.37.209.81/32	launch-wizard-2
-	sgr-0763b989a8ffbf49e	3001	TCP	0.0.0.0/0	launch-wizard-2
-	sgr-048858eb26a5f7ecd	80	TCP	0.0.0.0/0	launch-wizard-2
-	sgr-00644c791c7764070	22	TCP	49.37.209.81/32	launch-wizard-2

Outbound rules

Name	Security group rule ID	Port range	Protocol	Destination	Security groups
-	sgr-0283c4750108a5bbf	All	All	0.0.0.0/0	launch-wizard-2

INSTALLATIONS – GIT AND DOCKER SETUP:

```
tamil@Tamizh MINGW64 ~ (master)
$ cd Downloads

tamil@Tamizh MINGW64 ~/Downloads (master)
$ chmod 400 project1.pem

tamil@Tamizh MINGW64 ~/Downloads (master)
$ ssh -i "project1.pem" ec2-user@ec2-54-82-48-175.compute-1.amazonaws.com
The authenticity of host 'ec2-54-82-48-175.compute-1.amazonaws.com (54.82.48.175)' can't be established.
ED25519 key fingerprint is SHA256:o0vxd+6U/yRuddoGPGBqhk/H+R0nyfwnTG1+Oso00yE.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-82-48-175.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

      #_
      _\_ #####      Amazon Linux 2
      ~~ \_\#####\
      ~~   \|##|      AL2 End of Life is 2026-06-30.
      ~~   \|/  -->
      ~~   V\|  -->   A newer version of Amazon Linux is available!
      ~~  _\| /        Amazon Linux 2023, GA and supported until 2028-03-15.
      _/m/|      https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-31-203 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
No packages marked for update
[ec2-user@ip-172-31-31-203 ~]$ sudo apt update
```

+ Note on end-of-support. Use 'info' subcommand.

Now you can install:

```
# yum clean metadata
# yum install docker
[ec2-user@ip-172-31-31-203 ~]$ sudo yum install -y docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2extra-docker
amzn2extra-kernel-5.10
Resolving Dependencies
--> Running transaction check
--> Package docker.x86_64 0:25.0.8-1.amzn2.0.4 will be installed
--> Processing Dependency: containerd >= 1.3.2 for package: docker-25.0.8-1.amzn2.0.4.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-25.0.8-1.amzn2.0.4.x86_64
--> Processing Dependency: runc >= 1.0.0 for package: docker-25.0.8-1.amzn2.0.4.x86_64
--> Processing Dependency: pigz for package: docker-25.0.8-1.amzn2.0.4.x86_64
--> Running transaction check
--> Package containerd.x86_64 0:1.7.27-1.amzn2.0.2 will be installed
--> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
--> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
--> Package runc.x86_64 0:1.2.4-1.amzn2 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
docker	x86_64	25.0.8-1.amzn2.0.4	amzn2extra-docker	45 M

```
Installing : containerd-1.7.27-1.amzn2.0.2.x86_64
Installing : pigz-2.3.4-1.amzn2.0.1.x86_64
Installing : libcgroup-0.41-21.amzn2.x86_64
Installing : docker-25.0.8-1.amzn2.0.4.x86_64
Verifying  : runc-1.2.4-1.amzn2.x86_64
Verifying  : docker-25.0.8-1.amzn2.0.4.x86_64
Verifying  : libcgroup-0.41-21.amzn2.x86_64
Verifying  : pigz-2.3.4-1.amzn2.0.1.x86_64
Verifying  : containerd-1.7.27-1.amzn2.0.2.x86_64
```

Installed:

```
docker.x86_64 0:25.0.8-1.amzn2.0.4
```

Dependency Installed:

```
containerd.x86_64 0:1.7.27-1.amzn2.0.2      libcgroup.x86_64 0:0.41-21.amzn2          pigz.x86_64 0:2.3.4-1.amzn2.0.1
runc.x86_64 0:1.2.4-1.amzn2
```

Complete!

```
[ec2-user@ip-172-31-31-203 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-31-203 ~]$ sudo usermod -aG docker ec2-user
[ec2-user@ip-172-31-31-203 ~]$ history
 1  sudo yum update -y
 2  sudo apt update
 3  sudo amazon-linux-extras enable docker
 4  sudo yum install -y docker
 5  sudo service docker start
 6  sudo usermod -aG docker ec2-user
 7  history
[ec2-user@ip-172-31-31-203 ~]$
```

```

$ ssh -i "project1.pem" ec2-user@ec2-54-82-48-175.compute-1.amazonaws.com
Last login: Thu Jun  5 06:07:09 2025 from 49.37.209.81
#_
_ \ ####_ Amazon Linux 2
_ \ \###\ AL2 End of Life is 2026-06-30.
_ \#\_ V\_,->
_ / A newer version of Amazon Linux is available!
_ / / Amazon Linux 2023, GA and supported until 2028-03-15.
_ /m/_ https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-31-203 ~]$ sudo curl -L "https://github.com/docker/compose/releases/download/v2.24.6/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time     Time   Current
  0     0    0     0    0     0 --:--:-- --:--:-- --:--:-- 108M
100 58.5M 100 58.5M  0     0  83.0M  0 --:--:-- --:--:-- --:--:-- 108M
[ec2-user@ip-172-31-31-203 ~]$ sudo chmod +x /usr/local/bin/docker-compose
[ec2-user@ip-172-31-31-203 ~]$ docker-compose --version
Docker Compose version v2.24.6
[ec2-user@ip-172-31-31-203 ~]$ git clone -b dev https://github.com/Sujishreek/devops-build.git
[bash: git: command not found
[ec2-user@ip-172-31-31-203 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Resolving Dependencies
--> Running transaction check
--> Package git.x86_64 0:2.47.1-1.amzn2.0.2 will be installed
--> Processing Dependency: git-core = 2.47.1-1.amzn2.0.2 for package: git-2.47.1-1.amzn2.0.2.x86_64
--> Processing Dependency: git-core-doc = 2.47.1-1.amzn2.0.2 for package: git-2.47.1-1.amzn2.0.2.x86_64
--> Processing Dependency: perl-Git = 2.47.1-1.amzn2.0.2 for package: git-2.47.1-1.amzn2.0.2.x86_64
--> Processing Dependency: perl(Git) for package: git-2.47.1-1.amzn2.0.2.x86_64
--> Processing Dependency: perl(Term::ReadKey) for package: git-2.47.1-1.amzn2.0.2.x86_64
--> Running transaction check
--> Package git-core.x86_64 0:2.47.1-1.amzn2.0.2 will be installed
--> Package git-core-doc.noarch 0:2.47.1-1.amzn2.0.2 will be installed
--> Package perl-Git.noarch 0:2.47.1-1.amzn2.0.2 will be installed
--> Processing Dependency: perl(Error) for package: perl-Git-2.47.1-1.amzn2.0.2.noarch
--> Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed

```

```

Total                                         45 MB/s | 15 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : git-core-2.47.1-1.amzn2.0.2.x86_64                               1/6
  Installing : git-core-doc-2.47.1-1.amzn2.0.2.noarch                            2/6
  Installing : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64                         3/6
  Installing : perl-Git-2.47.1-1.amzn2.0.2.noarch                                4/6
  Installing : git-2.47.1-1.amzn2.0.2.x86_64                                     5/6
  Verifying  : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64                         6/6
  Verifying  : perl-Git-2.47.1-1.amzn2.0.2.noarch                                1/6
  Verifying  : git-2.47.1-1.amzn2.0.2.x86_64                                     2/6
  Verifying  : perl-Error-0.17020-2.amzn2.noarch                                3/6
  Verifying  : git-core-doc-2.47.1-1.amzn2.0.2.noarch                            4/6
  Verifying  : git-core-2.47.1-1.amzn2.0.2.x86_64                                 5/6
  Verifying  : git-core-2.47.1-1.amzn2.0.2.x86_64                                 6/6
Installed:
  git.x86_64 0:2.47.1-1.amzn2.0.2

Dependency Installed:
  git-core.x86_64 0:2.47.1-1.amzn2.0.2 git-core-doc.noarch 0:2.47.1-1.amzn2.0.2 perl-Error.noarch 1:0.17020-2.amzn2
  perl-Git.noarch 0:2.47.1-1.amzn2.0.2 perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2

Complete!
[ec2-user@ip-172-31-31-203 ~]$ git --version
git version 2.47.1
[ec2-user@ip-172-31-31-203 ~]$ git clone -b dev https://github.com/Sujishreek/devops-build.git
Cloning into 'devops-build'...
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (38/38), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 38 (delta 0), reused 38 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (38/38), 721.10 KiB | 18.49 MiB/s, done.
[ec2-user@ip-172-31-31-203 ~]$ cd devops-build
[ec2-user@ip-172-31-31-203 devops-build]$ chmod +x build.sh deploy.sh
[ec2-user@ip-172-31-31-203 devops-build]$ ./build.sh
[*] Building 0.25 (3/3) FINISHED
-> [internal] load build definition from Dockerfile
-> => transferring dockerfile: 192B
                                            docker:default
                                            0.0s
                                            0.0s

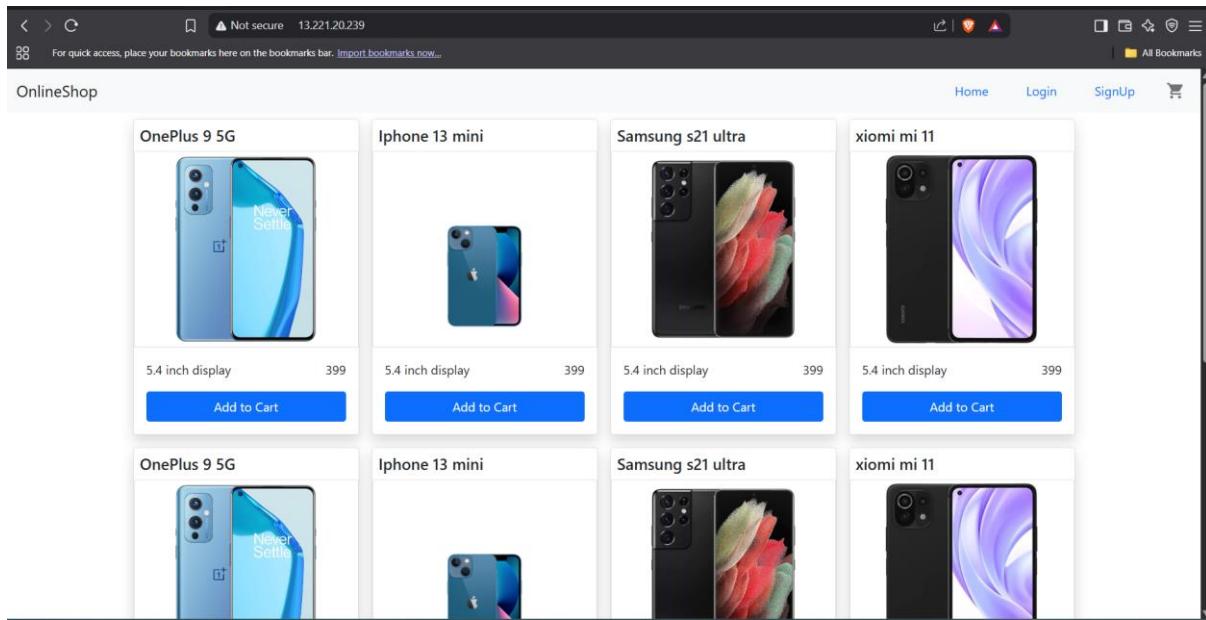
```

```
[ec2-user@ip-172-31-31-203 devops-build]$ cat .dockerignore
node_modules
build
.git
.dockerignore
Dockerfile
docker-compose.yml
[ec2-user@ip-172-31-31-203 devops-build]$ nano .dockerignore
[ec2-user@ip-172-31-31-203 devops-build]$ ./build.sh
[+] Building 1.8s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring Dockerfile: 238B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load .dockerignore
=> transferring context: 99B
=> [internal] load build context
=> resolve Dockerfile: /library/nginx:alpine@sha256:65645c7bb6a8661892ab93b89df7d3268a18dd2f3f17a54ef4b76fb8e2f
=> sha256:65645c7bb6a8661892ab93b89df7d3268a18dd2f3f17a54ef4b76fb8e2f 0.0s
=> sha256:62223d64ufc2a34c3alc785ee102424ec47a7736d426efc811d2f669f96d2cac8 0.0s
=> sha256:6769d725759e1791c1d2756bd1a13659b8e28ae16cfa58d5fd822d0b9a598ea 10.79MB / 10.79MB
=> sha256:f10223174bc91747f4fd3da86d880118921181a932x92a388b79e9e69c2dc5c878 0.0s
=> sha256:61ca0f773c80ad9e05a32f0de0361b6d713bb8b3292dc15fb093229f6fb8674 1.79MB / 1.79MB
=> sha256:6464c1e07631908ad9e0361b6d713bb8b3292dc15fb093229f6fb8674 1.79MB
=> sha256:6464c1e07631908ad9e0361b6d713bb8b3292dc15fb093229f6fb8674 629B
=> extracting sha256:1f0232171bfc71914fd3da96d85011092101a932a93a388b79e9e69c2dc5c878
=> sha256:39c2d6d60108224a6667ca49e95aca56f3eae86e0f177cc29540894f2a7d 15.52MB
=> sha256:d7e507920863575eb0b54a4fa572996c3462660ba2947d00e280b5f2d5773 955B / 955B
=> sha256:17e7b75867e4fcecd4724717b0972ab089436860594a945f75eaf8f3155853 1.21KB / 1.21KB
=> sha256:34a64640d756511a2e217f05801e1d1a572085d606dc9a555a082ad49a3182 1.40KB / 1.40KB
=> sha256:81bbded07ec76789b0cb7f13c7152cf6db83201e731c52f73d6bca1350f582998 402B / 402B
=> extracting sha256:61ca0f773c802ad9e05a32f0de0361b6d713bb8b3292dc15fb093229f6fb8674
=> extracting sha256:44fc4fd02d319785e2735975e459790ce1d08214fc1b6e9f15e4539e0ed235 0.0s
=> extracting sha256:d7e507920863575eb0b54a4fa572996c3462660ba2947d00e280b5f2d5773
=> extracting sha256:81bbded07ec76789b0cb7f1b7e731c52cf6db83201e731c52f73d6bca1350f582998 0.0s
=> extracting sha256:197eb75867e4fcecd4724717b0972ab089436860594a945f75eaf8f3155853 0.0s
=> extracting sha256:134646640d756511a2e217f05801e1d1a572085d606dc9a555a082ad49a3182 0.0s
=> extracting sha256:39c2d6d60108224a6667ca49e95aca56f3eae86e0f177cc29540894f2a7d 0.0s
[+] [internal] load build context
=> transferring context: 3.61MB
=> [2/3] COPY build /usr/share/nginx/html
=> [3/3] COPY nginx.conf /etc/nginx/nginx.conf
=> exporting to image
```

```
>> => extracting sha256:34a64644b756511a2e217f0508e11d1a572085d66cd6dc9a555a082ad49a3102 0.0s
=> => extracting sha256:39c2df6d018082a4a646e7ca44e95aca9bf3eaebc00f17f7ccc2954004f2a7d 0.6s
>> [internal] load build context 0.0s
=> => transferring context: 2.61MB 0.0s
=> [2/3] COPY build/ /usr/share/nginx/html 0.1s
=> [3/3] COPY nginx.conf /etc/nginx/nginx.conf 0.0s
=> => exporting image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:345bfaf546dfcc93c8ebaf0b071da24dc0eeb15134642345d1e3485897e8ca6f 0.0s
=> => naming to docker.io/sujishreek/dev-react-app 0.0s
[ec2-user@ip-172-31-31-203 devops-build]$ ./deploy.sh 0.0s
[+] Building 0.2s (8/8) FINISHED docker:default
=> [react-app internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 238B 0.0s
=> [react-app internal] load .dockerignore 0.0s
=> => transferring context: 998 0.1s
=> [react-app 1/3] FROM docker.io/library/nginx:alpine:sha256:65645c7bb6a0661892a8b03b89d0743208a18dd2f3f17a54ef 0.0s
=> [react-app internal] load build context 0.0s
=> => transferring context: 8678 0.0s
=> => CACHED [react-app 2/3] COPY build/ /usr/share/nginx/html 0.0s
=> => CACHED [react-app 3/3] COPY nginx.conf /etc/nginx/nginx.conf 0.0s
=> => [react-app] exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:3d27f3da59cb7cf1fb44c8a0ceeede494ddc6cda4829392fe1d0329a1040c11a 0.0s
=> => naming to docker.io/Library/devops-build-react-app 0.0s
[+] Running 1/2 0.0s
  · Network devops-build_default Created 0.5s
  ✓ Container devops-build-react-app-1 Started 0.5s
[ec2-user@ip-172-31-31-203 devops-build]$ |
```

```
=> transferring context: 867B
=> CACHED [react-app 2/3] COPY build/ /usr/share/nginx/html
=> CACHED [react-app 3/3] COPY nginx.conf /etc/nginx/nginx.conf
=> [react-app] exporting to image
=> writing image sha256:3d27f3da59cb7cf1fb44c0a0cede0494ddc6cda4829392fe1d0329a1b040c11a
=> naming to docker.io/library/devops-build-react-app
[+] Running 1/2
  . Network devops-build_default          Created          0.0s
  ✓ Container devops-build-react-app-1    Started          0.0s
[ec2-user@ip-172-31-31-203 devops-build]$ docker-compose up -d
[+] Running 1/0
  ✓ Container devops-build-react-app-1    Running          0.0s
[ec2-user@ip-172-31-31-203 devops-build]$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using
SSO. Learn more at https://docs.docker.com/go/access-tokens/
Username: sujishreek
Password:
WARNING! Your password will be stored unencrypted in /home/ec2-user/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[ec2-user@ip-172-31-31-203 devops-build]$ docker push sujishreek/dev-react-app
Using default tag: latest
The push refers to repository [docker.io/sujishreek/dev-react-app]
cc199cfc7c3c: Pushed
d5c219a0a647: Pushed
0d853d50b128: Mounted from library/nginx
947e805a4ac7: Mounted from library/nginx
811ad4dbbf4a5: Mounted from library/nginx
b8d7fd1d22634: Mounted from library/nginx
e244aa659f61: Mounted from library/nginx
c56f13d3805: Mounted from library/nginx
d71ea0084c1: Mounted from library/nginx
08000c18d16d: Mounted from library/nginx
latest: digest: sha256:a9df1fb85f3af93e325b4dfa91bd27a99464963f2b18049079c4716147762ab6 size: 2406
[ec2-user@ip-172-31-31-203 devops-build]$
```



```
"docker tag" requires exactly 2 arguments.
See 'docker tag --help'.

Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

tamil@Tamilzh MINGW64 ~/Downloads (master)
$ docker push sujishreek /dev:latest
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage: docker push [OPTIONS] NAME[:TAG]

Upload an image to a registry

tamil@Tamilzh MINGW64 ~/Downloads (master)
$ docker tag devops-build-react-app sujishreek/prod:latest
error during connect: Post "http://%2F%2F.pipe%2FdockerDesktopLinuxEngine/v1.47/images/devops-build-react-app/tag?repo=sujishreek%2Fprod&tag=latest": open n //./pipe/dockerDesktopLinuxEngine: The system cannot find the file specified.

tamil@Tamilzh MINGW64 ~/Downloads (master)
$ docker tag devops-build-react-app sujishreek /prod:latest
"docker tag" requires exactly 2 arguments.
See 'docker tag --help'.

Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

tamil@Tamilzh MINGW64 ~/Downloads (master)
$ docker push sujishreek /prod:latest
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage: docker push [OPTIONS] NAME[:TAG]

Upload an image to a registry

tamil@Tamilzh MINGW64 ~/Downloads (master)
$ |
```

sujishreek
Docker Personal

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Repositories / dev-react-app / General

sujishreek/dev-react-app ⓘ

Last pushed 5 minutes ago

Add a description ⓘ

Add a category ⓘ

General Tags Image Management ⚡ Collaborators Webhooks Settings ⚡

Tags					Docker Scout Inactive	Activate
Tag	OS	Type	Pulled	Pushed		
latest	Ubuntu	Image	less than 1 day	5 minutes		

[See all](#)

Using 0 of 1 private repositories. [Get more](#)

Docker commands

To push a new tag to this repository:

```
docker push sujishreek/dev-react-app:tagname
```

[Public view](#)

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 managing infrastructure.

The screenshot shows the Docker Hub 'My Hub' interface. On the left is a sidebar with options like 'Repositories', 'Collaborations', 'Settings', etc. The main area is titled 'Repositories' and lists four repositories under the namespace 'sujishreek': 'prob-react-app', 'dev-react-app', 'react-app', and 'nginx-custom'. Each repository entry includes the name, last pushed time, visibility (Private/Public), and status (Inactive).

JENKINS:

```
[ec2-user@ip-172-31-31-203 ~]$ sudo yum install java-17-amazon-corretto -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
19 packages excluded due to repository priority protections
Resolving Dependencies
--> Running transaction check
--> Package java-17-amazon-corretto.x86_64 1:17.0.15+6-1.amzn2.1 will be installed
--> Processing Dependency: java-17-amazon-corretto-headless(x86-64) = 1:17.0.15+6-1.amzn2.1 for package: 1:java-17-amazon-corretto-17.0.15+6-1.amzn2.1.x86_6
4
--> Running transaction check
--> Package java-17-amazon-corretto-headless.x86_64 1:17.0.15+6-1.amzn2.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version            Repository        Size
=====
Installing:
 java-17-amazon-corretto          x86_64    1:17.0.15+6-1.amzn2.1      amzn2-core     199 k
 Installing for dependencies:
 java-17-amazon-corretto-headless x86_64    1:17.0.15+6-1.amzn2.1      amzn2-core     94 M

Transaction Summary
=====
Install 1 Package (+1 Dependent package)

Total download size: 94 M
Installed size: 237 M
Downloading packages:
(1/2): java-17-amazon-corretto-17.0.15+6-1.amzn2.1.x86_64.rpm | 199 kB  00:00:00
(2/2): java-17-amazon-corretto-headless-17.0.15+6-1.amzn2.1.x86_64.rpm | 94 MB   00:00:01

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:java-17-amazon-corretto-headless-17.0.15+6-1.amzn2.1.x86_64          1/2
  Installing : 1:java-17-amazon-corretto-17.0.15+6-1.amzn2.1.x86_64                2/2
  Verifying   : 1:java-17-amazon-corretto-headless-17.0.15+6-1.amzn2.1.x86_64          1/2
```

```

Installed:
  java-17-amazon-corretto.x86_64 1:17.0.15+6-1.amzn2.1

Dependency Installed:
  java-17-amazon-corretto-headless.x86_64 1:17.0.15+6-1.amzn2.1

Complete!
[ec2-user@ip-172-31-31-203 ~]$ sudo alternatives --config java

There are 2 programs which provide 'java'.

Selection      Command
----- -----
  1            /usr/lib/jvm/java-11-amazon-corretto.x86_64/bin/java
++ 2            /usr/lib/jvm/java-17-amazon-corretto.x86_64/bin/java

Enter to keep the current selection[+], or type selection number: +

There are 2 programs which provide 'java'.

Selection      Command
----- -----
  1            /usr/lib/jvm/java-11-amazon-corretto.x86_64/bin/java
++ 2            /usr/lib/jvm/java-17-amazon-corretto.x86_64/bin/java

Enter to keep the current selection[+], or type selection number: 2
[ec2-user@ip-172-31-31-203 ~]$ java -version
openjdk version "17.0.15" 2025-04-15 LTS
OpenJDK Runtime Environment Corretto-17.0.15.6.1 (build 17.0.15+6-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.15.6.1 (build 17.0.15+6-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-31-203 ~]$ sudo systemctl daemon-reexec
[ec2-user@ip-172-31-31-203 ~]$ sudo systemctl restart jenkins
[ec2-user@ip-172-31-31-203 ~]$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
     Active: active (running) since Thu 2025-06-05 06:54:24 UTC; 95 ago
       PID: 9967 (java)
      Tasks: 46
     Memory: 415.1M
        CPU: /system.slice/jenkins.service

```

```

[ec2-user@ip-172-31-31-203 ~]$ sudo usermod -aG docker jenkins
-bash: sudo: command not found
[ec2-user@ip-172-31-31-203 ~]$ sudo usermod -aG docker jenkins
[ec2-user@ip-172-31-31-203 ~]$ sudo systemctl restart jenkins
[ec2-user@ip-172-31-31-203 ~]$ sudo su - jenkins
[ec2-user@ip-172-31-31-203 ~]$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a06d3172cc55 devops-build-react-app "/docker-entrypoint._" About an hour ago Up About an hour 0.0.0.0:80->80/tcp, :::80->80/tcp devops-build-react-app-1
[ec2-user@ip-172-31-31-203 ~]$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
cat: /var/lib/jenkins/secrets/initialAdminPassword: No such file or directory
[ec2-user@ip-172-31-31-203 ~]$ docker exec <jenkins-container-id> cat /var/jenkins_home/secrets/initialAdminPassword
-bash: jenkins-container-id: No such file or directory
[ec2-user@ip-172-31-31-203 ~]$ docker exec a06d3172cc55 cat /var/jenkins_home/secrets/initialAdminPassword
cat: can't open '/var/jenkins_home/secrets/initialAdminPassword': No such file or directory
[ec2-user@ip-172-31-31-203 ~]$ docker ps --format "table {{.ID}}\t{{.Image}}\t{{.Names}}"
CONTAINER ID IMAGE NAMES
a06d3172cc55 devops-build-react-app devops-build-react-app-1
[ec2-user@ip-172-31-31-203 ~]$ nano docker-compose.yml
[ec2-user@ip-172-31-31-203 ~]$ docker-compose up -d
[*] Running 13/13
  ✓ Jenkins 12 layers [██████████]    0B/0B    Pulled
    ✓ 3e6b9d1a9511 Pull complete
    ✓ 1c0b6121482a Pull complete
    ✓ cbd1283dc3b2 Pull complete
    ✓ b9b1866598bd Pull complete
    ✓ 88ce37b37f84 Pull complete
    ✓ 57daf4f4laee Pull complete
    ✓ 10e8fd64a503 Pull complete
    ✓ d53560724658 Pull complete
    ✓ c10ebbe1ab33 Pull complete
    ✓ 373064389888 Pull complete
    ✓ 82349c49f528 Pull complete
    ✓ d9f1facce911 Pull complete
[*] Running 0/4
  + Network ec2-user_default      Created          0.5s
  + Volume "ec2-user_jenkins_home" Created          0.4s
  + Container jenkins             Starting         0.4s
  + Container ec2-user-react-app-1 Starting         0.4s
Error response from daemon: driver failed programming external connectivity on endpoint ec2-user-react-app-1 (1b5f1328789461f2f8120a2fe08aed2e33aa3604b8d8ff

```

Not secure 54.82.48.175:8080

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

Getting Started

Username: Sujishreek

Password:

Confirm password:

Full name: SUJISHREE KANDASAMY

E-mail address: sujishreek2002@gmail.com

Jenkins 2.504.2 Skip and continue as admin Save and Continue

Jenkins

Dashboard >

- + New Item
- Build History
- Manage Jenkins
- My Views

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job +

Set up a distributed build

Set up an agent

Configure a cloud

Learn more about distributed builds

54.82.48.175:8080/newJob REST API Jenkins 2.504.2

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

New credentials

Kind: Username with password

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

Username: Sujishreek

Treat username as secret

Password:

ID: github-cred

Description:

Create

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

New credentials

Kind: Username with password

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

Username: sujishreek

Treat username as secret

Password: *****

ID: docker-cred

Create

Jenkins

Dashboard > devops-build > Configuration

Configure

General

Description: CI/CD pipeline for devops-build Read app

Enabled

Discard old builds

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

Github project

Project url: <https://github.com/sriram-R-krishnan/devops-build>

Save **Apply**

Dashboard > devops-build > Configuration

Configure

Pipeline

Pipeline script from SCM

SCM: Git

Repositories:

- Repository URL: <https://github.com/sriram-R-krishnan/devops-build.git>
- Credentials: Sujishreek/******** (classic token)

Save **Apply**

Dashboard > devops-build > Configuration

Configure

- General
- Triggers
- Pipeline
- Advanced**

Add Branch

Repository browser ? (Auto)

Additional Behaviours Add

Script Path ? Jenkinsfile

Lightweight checkout ?

Pipeline Syntax

Advanced

Advanced

Save Apply

```
Last login: Thu Jun  5 08:43:10 2025 from 49.37.209.81
# 
Amazon Linux 2
AL2 End of Life is 2026-06-30.
# 
V~-->
A newer version of Amazon Linux is available!
/ 
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-203 ~]$ docker ps
CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS          PORTS
9f7b8fa72789   devops-build-react-app   "/docke...
ec2-user-react-app-1
ec2-user-react-app-1
jenkins/jdk11   "/usr/bin/tini -- /u...
28 minutes ago  Up 28 minutes  0.0.0.0:8081->80/tcp, ...
0->50000/tcp, ...
0->50000/tcp, ...
root@1275fb97df: # apt-get update && apt-get install -y docker.io
Get:1 http://deb.debian.org/debian bookworm InRelease [151 kB]
Get:2 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:3 http://deb.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 Packages [8793 kB]
Get:6 http://deb.debian.org/debian bookworm-updates/main amd64 Packages [512 B]
Get:7 http://deb.debian.org/debian-security bookworm-security/main amd64 Packages [265 kB]
Get:5 https://packagecloud.io/github/git-lfs/debian bookworm InRelease [29.2 kB]
Get:8 https://packagecloud.io/github/git-lfs/debian bookworm/main amd64 Packages [2806 B]
Fetched 9345 kB in 2s (5664 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
apparmor binutils binutils-common binutils-x86_64-linux-gnu bsutils cgroupsfs-mount containerd criu dbus dbus-bin dbus-daemon dbus-session-bus-common
dbus-system-bus-common dbus-user-session dmsetup gettext-base iproute2 iptables libapparmor1 libargon2-1 libbinutils libblkid1 libbpfl1 libcap2
libcap2-bin libcryptsetup12 libctf-nobfd0 libctf0 libdbus-1-3 libdevmapper1.02.1 libelf1 libfdisk1 libgprofng0 libintl-perl libintl-xs-perl libipipc2
libip6c2 libjansson4 libjson-c5 libkmmod2 liblzma5 libmnl0 libmodule-find-perl libnetlib1 libnetfilter-conntrack3 libnftnl0 libnftables1
libnftnl1 libnl-3-200 libnsl2 libnss-systemd libpam-cap libpam-systemd libproc-processstable-perl libprotoobuf-f32 libpython3-stdlib
libpython3.11-minimal libpython3.11-stdlib libsmartcols1 libsort-naturally-perl libsystemd-shared libsystemd0 libterm-readkey-perl libtirpc-common
```

Console Output

[Download](#) [Copy](#) [View as plain text](#)

```
Started by user SUJISHREE KANDASAMY
Obtained Jenkinsfile from git https://github.com/Sujishreek/devops-build.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/devops-build1
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential github-cred
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/devops-build1/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Sujishreek/devops-build.git # timeout=10
Fetching upstream changes from https://github.com/Sujishreek/devops-build.git
> git --version # timeout=10
> git --version # 'git version 2.39.5'
using GIT_ASKPASS to set credentials classic token
> git fetch --tags --force --progress -- https://github.com/Sujishreek/devops-build.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/dev^{commit} # timeout=10
Checking out Revision 8850363f4eb4b41f882d60e62ae344d7451d92ee (refs/remotes/origin/dev)
> git config core.sparsecheckout # timeout=10
> git checkout -f 8850363f4eb4b41f882d60e62ae344d7451d92ee # timeout=10
Commit message: "Update Dockerfile"
```

```
#5 DONE 0.0s

#6 [2/3] RUN rm -rf /usr/share/nginx/html/*
#6 sha256:24fdf50d7870027df848905d7ab22d4506c6ade5cf857424174da2154e0fed7
#6 CACHED

#4 [3/3] COPY . /usr/share/nginx/html
#4 sha256:23cfbe1dca69be737eed148bfbb5949253e947baf2372604491d526da60b118
#4 DONE 0.1s

#8 exporting to image
#8 sha256:3d03838c8c2a9befbdf3d26cffee3368134028563b76ba5447f6ae31e6dc0cb6
#8 exporting layers 0.0s done
#8 writing image sha256:66cd807c5880b3b34db234cfdb097e455846407b37689d96df72e7dcc866fbf7e done
#8 naming to docker.io/library/devops-build1_react-app:latest 0.0s done
#8 DONE 0.1s
Image for service react-app was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-compose up -build`.
Creating devops-build1_react-app_1 ...
Creating devops-build1_react-app_1 ... done
[Pipeline]
[Pipeline] // stage
[Pipeline] )
[Pipeline] // withEnv
[Pipeline] )
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

ENG ENG 15:15

✓ devops-build1 < 13

Branch: — ① 10s Changes by noreply
Commit: — ② 5 minutes ago Started by user SUJISHREE KANDASAMY

Pipeline Changes Tests Artifacts ⚙️ Logout

Start Clone Build Docker Image Push to Docker Hub Deploy End

Deploy - 5s [Restart Deploy](#) 5s

bash deploy.sh — Shell Script

Repositories / dev / General

sujishreek/dev

Last pushed 44 minutes ago · Repository size: 21.4 MB

Add a description | Add a category

General Tags Image Management (BETA) Collaborators Webhooks Settings

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	Image		less than 1 day	about 1 hour

[See all](#)

Docker commands

To push a new tag to this repository:

```
docker push sujishreek/dev:tagname
```

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

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 managing infrastructure.

Repositories / dev-react-app / Tags

sujishreek/dev-react-app

Last pushed about 4 hours ago

Add a description | Add a category

General Tags Image Management (BETA) Collaborators Webhooks Settings

Sort by [Newest](#) Filter tags

TAG	Digest	OS/ARCH	Last pull	Compressed size
latest	a6d1fbf85f3a	linux/amd64	less than 1 day	20.69 MB

[docker pull sujishreek/dev-react-app:latest](#)

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

Docker commands

To push a new tag to this repository:

```
docker push sujishreek/dev-react-app:tagname
```

buildcloud

PROMETHEUS, GRAFANA SETUP:

```
> --network=monitoring-net \
> -p 9090:9090 \
> -v /home/ec2-user/prometheus.yml:/etc/prometheus/prometheus.yml \
> prom/prometheus
65ca0b97d65dd4c44024e3b293f8f57f56b697af53c9f86007c7238465e359cf8
[ec2-user@ip-172-31-29-72 ~]$ docker stop health-container
Error response from daemon: No such container: health-container
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=health-container \
> --network=monitoring-net \
> -p 8080:8080 \
> sujishreek/dev:latest
9d98927801a95ff42cc03c416df08147b3db843af9db4d1aee9658ceb58ada14
[ec2-user@ip-172-31-29-72 ~]$ 
[ec2-user@ip-172-31-29-72 ~]$ docker stop health-container 2>/dev/null
health-container
[ec2-user@ip-172-31-29-72 ~]$ docker rm health-container 2>/dev/null
health-container
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=health-container \
> --network=monitoring-net \
> -p 8080:8080 \
> health-check
a43b861355bd711df0f53de9c86e8ad52af6d070e9881cbe5f5d7e7d609fbfe0
[ec2-user@ip-172-31-29-72 ~]$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a43b861355bd health-check "/docker-entrypoint.s..." 7 seconds ago Up 6 seconds 0.0.0.0:8080->8080/tcp, :::8080->8080/tcp health-containe
r
65ca0b97d65d prom/prometheus "/bin/prometheus --c..." 4 minutes ago Up 4 minutes 0.0.0.0:9090->9090/tcp, :::9090->9090/tcp prometheus
476aa8f14c34 grafana/grafana "/run.sh" 25 minutes ago Up 25 minutes 0.0.0.0:3001->3000/tcp, :::3001->3000/tcp grafana
a7af0c6f381e sujishreek/dev:latest "/docker-entrypoint.s..." 38 minutes ago Up 38 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp react-app
[ec2-user@ip-172-31-29-72 ~]$ Cannot GET /metrics
docker run -d \
> --name=health-container \
> --network=monitoring-net \
> -p 8080:8080 \
> prom/statsd-exporter
bash: Cannot: command not found
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=health-container \
> --network=monitoring-net \
> -p 8080:8080 \
```

```

> -p 3001:3000 \
> -v /home/ec2-user/grafana-config/grafana.ini:/etc/grafana/grafana.ini \
> grafana/grafana
-bash: docker: command not found
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=grafana \
> --network monitoring-net \
> -p 3001:3000 \
> -v /home/ec2-user/grafana-config/grafana.ini:/etc/grafana/grafana.ini \
> grafana/grafana
476aa8f14c34e2b16d90dc5c74e8babf15af3c21e55bc01991da766abcd3ead
[ec2-user@ip-172-31-29-72 ~]$ docker network ls
NETWORK ID      NAME                DRIVER      SCOPE
d825faabb10    bridge              bridge      local
689a89f1799f    host                host       local
917c6cf1acff   monitoring-net     bridge      local
e7e531c994ab   monitoring_default bridge      local
8e8887e9ef66   none                null       local
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=grafana \
> --network monitoring-net \
> -p 3001:3000 \
> -v /home/ec2-user/grafana-config/grafana.ini:/etc/grafana/grafana.ini \
> grafana/grafana
docker: Error response from daemon: Conflict. The container name "/grafana" is already in use by container "476aa8f14c34e2b16d90dc5c74e8babf15af3c21e55bc01991da766abcd3ead". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
[ec2-user@ip-172-31-29-72 ~]$ client_loop: send disconnect: Connection reset by peer

tamil@Tamilh MINGW64 ~/Downloads (master)
$ ssh -i "project1.pem" ec2-54-146-224-195.compute-1.amazonaws.com
Last login: Thu Jun  5 12:14:32 2025 from 49.37.209.81
      _#
  _\_\_###_
~~~ \####\ Amazon Linux 2
~~~ \###| AL2 End of Life is 2026-06-30.
~~~ \#/ ---.
~~~ \"/`-->
~~~ /` A newer version of Amazon Linux is available!
~~~ ./. /` Amazon Linux 2023, GA and supported until 2028-03-15.

```

```

[ec2-user@ip-172-31-29-72 ~]$ ls -ld /home/ec2-user/prometheus.yml
drwxr-xr-x 2 root root 6 Jun  5 12:40 /home/ec2-user/prometheus.yml
[ec2-user@ip-172-31-29-72 ~]$ rm -r /home/ec2-user/prometheus.yml
rm: remove write-protected directory '/home/ec2-user/prometheus.yml'? yes
[ec2-user@ip-172-31-29-72 ~]$ nano /home/ec2-user/prometheus.yml
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name prometheus \
> --network monitoring-net \
> -p 9090:9090 \
> -v /home/ec2-user/prometheus.yml:/etc/prometheus/prometheus.yml \
> prom/prometheus
docker: Error response from daemon: Conflict. The container name "/prometheus" is already in use by container "e2c8213407716134cd17c0fbafe5790cbd8854aee6cab85f1383c1bafc401851". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
[ec2-user@ip-172-31-29-72 ~]$ 
[ec2-user@ip-172-31-29-72 ~]$ docker rm prometheus
prometheus
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name prometheus \
> --network monitoring-net \
> -p 9090:9090 \
> -v /home/ec2-user/prometheus.yml:/etc/prometheus/prometheus.yml \
> prom/prometheus
5fd8ae71d2ca2dfb82a8ed453a69392bd1ae4d6e1c8d5df7a3855f583943cb67
[ec2-user@ip-172-31-29-72 ~]$ 
[ec2-user@ip-172-31-29-72 ~]$ docker ps | grep grafana
[ec2-user@ip-172-31-29-72 ~]$ docker start grafana
Error response from daemon: No such container: grafana
Error: failed to start containers: grafana
[ec2-user@ip-172-31-29-72 ~]$ ls /home/ec2-user/grafana-config/grafana.ini
/home/ec2-user/grafana-config/grafana.ini
[ec2-user@ip-172-31-29-72 ~]$ nano /home/ec2-user/grafana-config/grafana.ini
[ec2-user@ip-172-31-29-72 ~]$ docker run -d \
> --name=grafana \
> --network monitoring-net \

```

```
tamil@Tamilh: MINGW64 ~/Downloads (master)
$ ssh -i "project1.pem" ec2-user@ec2-54-146-224-195.compute-1.amazonaws.com
Last login: Sat Jun 14 05:27:01 2025 from 49.37.211.71
#_
~\_ ##### Amazon Linux 2
~~ \_\#\#\#\| AL2 End of Life is 2026-06-30.
~~ \#/ --- V~' '-->
~~ / / A newer version of Amazon Linux is available!
~~ / / / Amazon Linux 2023, GA and supported until 2028-03-15.
~/ / / https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-29-72 ~]$ nano docker-compose.yml
[ec2-user@ip-172-31-29-72 ~]$ cd monitoring
[ec2-user@ip-172-31-29-72 monitoring]$ ls
blackbox docker-compose.yml grafana prometheus prometheus.yml
[ec2-user@ip-172-31-29-72 monitoring]$ nano docker-compose.yml
[ec2-user@ip-172-31-29-72 monitoring]$ docker-compose down
[+] Running 4/0
  ✓ Container blackbox-exporter     Removed          0.2s
  ✓ Container prometheus          Removed          0.2s
  ✓ Container grafana              Removed          0.3s
  ✓ Network monitoring_monitor-net Removed          0.1s
[ec2-user@ip-172-31-29-72 monitoring]$ docker-compose up -d
[+] Running 3/4
  ! Network monitoring_monitor-net Created          0.9s
  ✓ Container blackbox-exporter    Started          0.8s
  ✓ Container prometheus         Started          0.6s
  ✓ Container grafana             Started          0.8s
[ec2-user@ip-172-31-29-72 monitoring]$ nano alert.rules.yml
[ec2-user@ip-172-31-29-72 monitoring]$ nano prometheus.yml
[ec2-user@ip-172-31-29-72 monitoring]$ nano docker-compose.yml
[ec2-user@ip-172-31-29-72 monitoring]$ nano alertmanager.yml
[ec2-user@ip-172-31-29-72 monitoring]$ docker-compose down
[+] Running 4/3
  ✓ Container grafana             Removed          0.3s
  ✓ Container blackbox-exporter   Removed          0.3s
  ✓ Container prometheus         Removed          0.2s
  ✓ Network monitoring_monitor-net Removed          0.8s
```

```
GNU nano 2.9.8                                     alert.rules.yml

groups:
- name: ReactAppDown
  rules:
  - alert: ReactAppDown
    expr: probe_success{job="blackbox_react_app"} == 0
    for: 30s
    labels:
      severity: critical
    annotations:
      summary: "React App is DOWN"
      description: "React App (http://54.146.224.195) is not responding to HTTP probes."
```

```
GNU nano 2.9.8                                     prometheus.yml

global:
  scrape_interval: 15s

rule_files:
- "alert.rules.yml"

alerting:
  alertmanagers:
  - static_configs:
    - targets:
      - "alertmanager:9093"

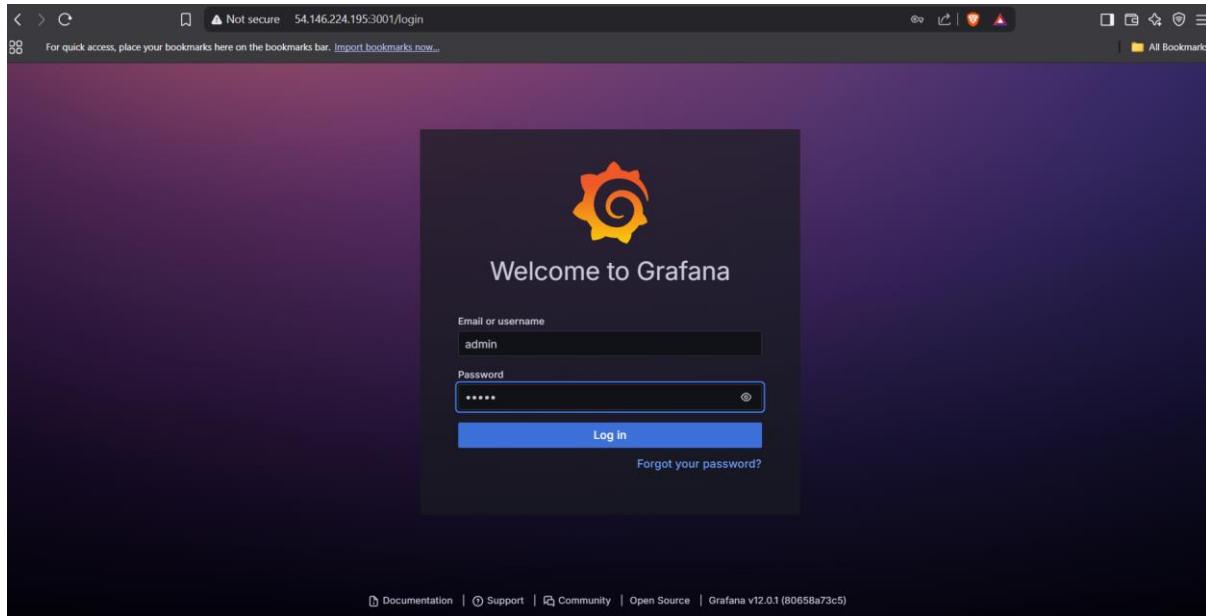
scrape_configs:
- job_name: 'blackbox_react_app'
  metrics_path: '/probe'
  params:
    module: [http_2xx]
  static_configs:
  - targets:
    - http://54.146.224.195
  relabel_configs:
  - source_labels: [__address__]
    target_label: __param_target
  - source_labels: [__param_target]
    target_label: instance
  - target_label: __address__
    replacement: blackbox-exporter:9115
```

```
GNU nano 2.9.8 docker-compose.yml
version: '3'
services:
  prometheus:
    image: prom/prometheus
    container_name: prometheus
    volumes:
      - ./prometheus.yml:/etc/prometheus/prometheus.yml
    ports:
      - "9090:9090"
    networks:
      - monitor-net
  grafana:
    environment:
      - GF_SMTP_ENABLED=true
      - GF_SMTP_HOST=smtp.gmail.com:587
      - GF_SMTP_USER=sujishreek2002@gmail.com
      - GF_SMTP_PASSWORD=tjbs oprr fosc csok
      - GF_SMTP_FROM_ADDRESS=grafana@gmail.com
      - GF_SMTP_FROM_NAME=Grafana
    image: grafana/grafana
    container_name: grafana
    ports:
      - "3001:3000"
    volumes:
      - grafana-storage:/var/lib/grafana
    networks:
      - monitor-net
  alertmanager:
    image: prom/alertmanager
    container_name: alertmanager
    volumes:
      - ./alertmanager.yml:/etc/alertmanager/alertmanager.yml
    ports:
      - "9093:9093"
```

```
GNU nano 2.9.8 alertmanager.yml
global:
  smtp_smarthost: 'smtp.gmail.com:587'
  smtp_from: 'sujishreek2002@gmail.com'
  smtp_auth_username: 'sujishreek2002@gmail.com'
  smtp_auth_password: 'tjbs oprr fosc csok'
  smtp_require_tls: true

route:
  receiver: 'email-alert'

receivers:
  - name: 'email-alert'
    email_configs:
      - to: 'sujishreek2002@gmail.com'
```

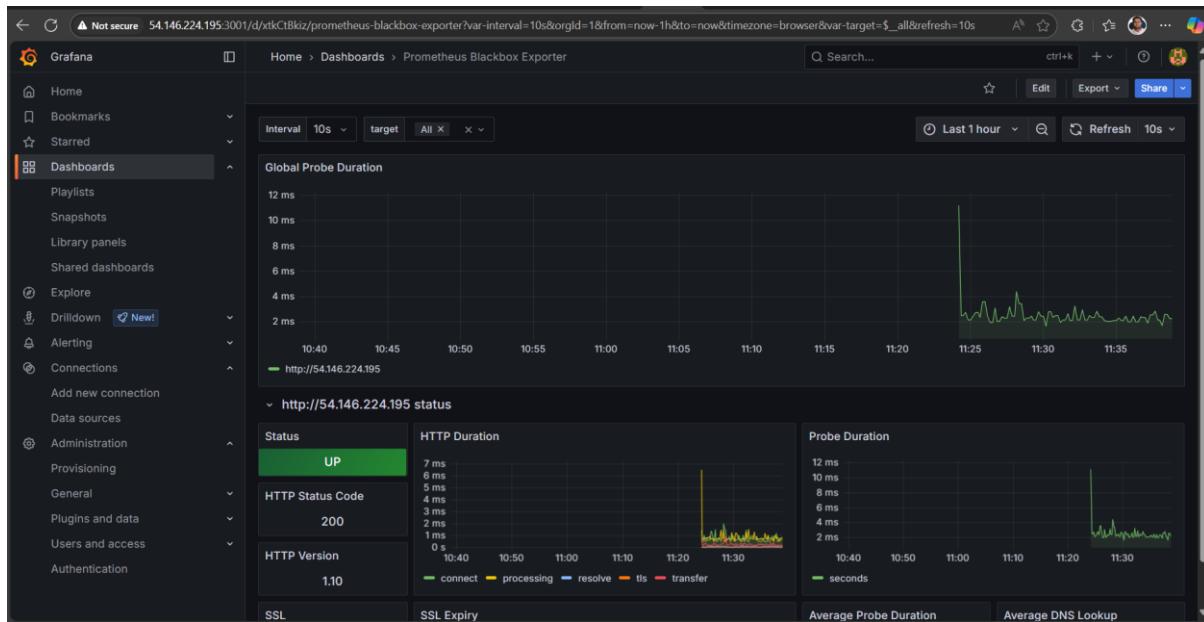


The screenshot shows the Grafana interface with the following details:

- Left sidebar:** Home, Bookmarks, Starred, Dashboards, Explore, Drilldown (New!), Alerting, Connections (selected), Add new connection, Data sources (selected), Administration.
- Top navigation:** Home > Connections > Data sources > prometheus
- Header:** Search bar, ctrl+k, +, and other icons.
- Prometheus Data Source Configuration:**
 - Name:** prometheus
 - Type:** Prometheus
 - Alerting:** Supported
 - Buttons:** Explore data, Build a dashboard
- Modal Overlay:** "Configure your Prometheus data source below" and "Or skip the effort and get Prometheus (and Loki) as fully-managed, scalable, and hosted data sources from Grafana Labs with the free-forever Grafana Cloud plan."
- Form Fields:** Name (prometheus), Default (checkbox checked).
- Text:** "Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#). Fields marked with * are required".
- Bottom Section:** Connection, Prometheus server URL * (input field containing http://prometheus:9090).

The screenshot shows the Grafana interface with the following details:

- Left sidebar:** Home, Bookmarks, Starred, Dashboards (selected), Explore, Drilldown (New!), Alerting, Connections, Add new connection, Data sources, Administration.
- Top navigation:** Home > Dashboards > New dashboard > Edit panel.
- Panel view:** Table view (Last 6 hours), Refresh, Back to dashboard, Discard panel, Save dashboard.
- Panel content:** New panel, No data.
- Panel options:** Title (New panel), Description, Transparent background (disabled).
- Bottom controls:** Queries (1), Transformations (0), Alert (0), Data source (prometheus), Query inspector, Query (prometheus), MD = auto = 500, Interval = 30s, Query inspector, Kick start your query, Explain, Run queries, Builder, Code, Label filters, Metric (Select metric), Select label, Select value, Hover proximity, How close the cursor must be to a point to trigger the tooltip, in pixels.



Blackbox Exporter

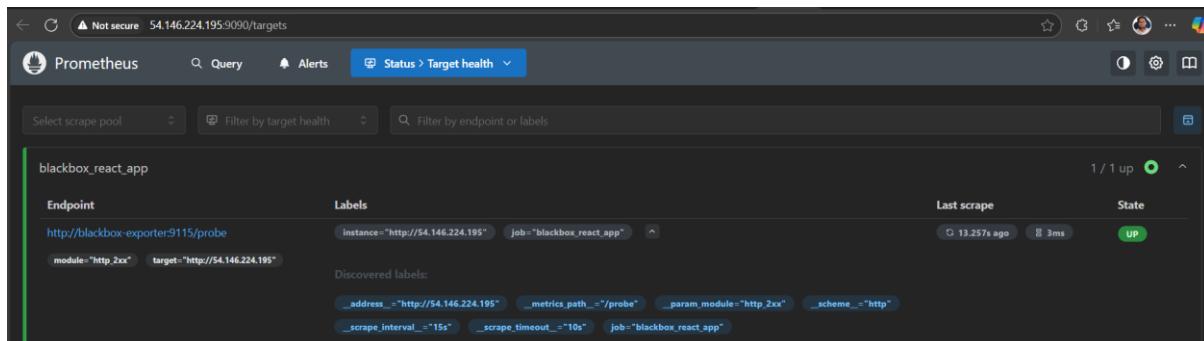
Probe prometheus.io for http_2xx

[Debug probe prometheus.io for http_2xx](#)

Metrics

Configuration

Recent Probes



IF REACT-APP IS DOWN (I HAVE STOPPED RUNNING):

```
[ec2-user@ip-172-31-29-72 monitoring]$ docker-compose up -d
[+] Running 8/8
  ✓ alertmanager 7 layers [████████]      0B/0B      Pulled
    ✓ 9fa9226be034 Already exists
    ✓ 1617e25568b2 Already exists
    ✓ 545c14a5a415 Pull complete
    ✓ 6fcfbfeb5877c Pull complete
    ✓ a9c7f41169bf Pull complete
    ✓ 5759234535c5 Pull complete
    ✓ 4f4fb700ef54 Pull complete
[+] Running 4/6
  : Network monitoring_monitor-net  Created
  : Network monitoring_default     Created
  ✓ Container prometheus          Started
  ✓ Container grafana             Started
  ✓ Container alertmanager        Started
  ✓ Container blackbox-exporter   Started
[ec2-user@ip-172-31-29-72 monitoring]$ docker stop react-app
react-app
```

Blackbox Exporter

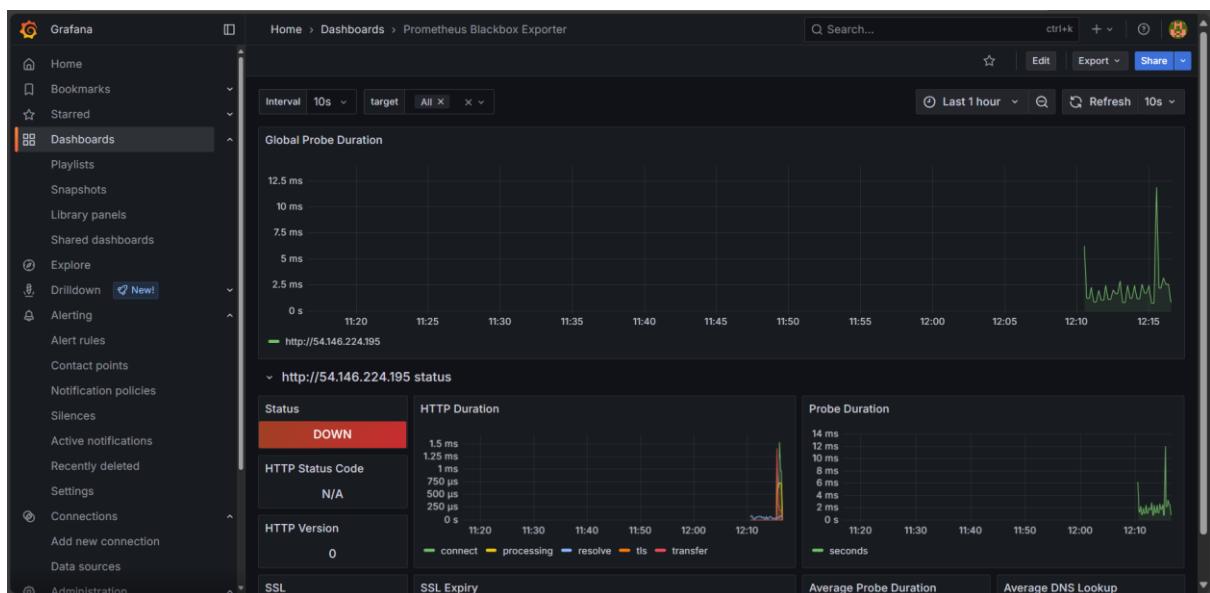
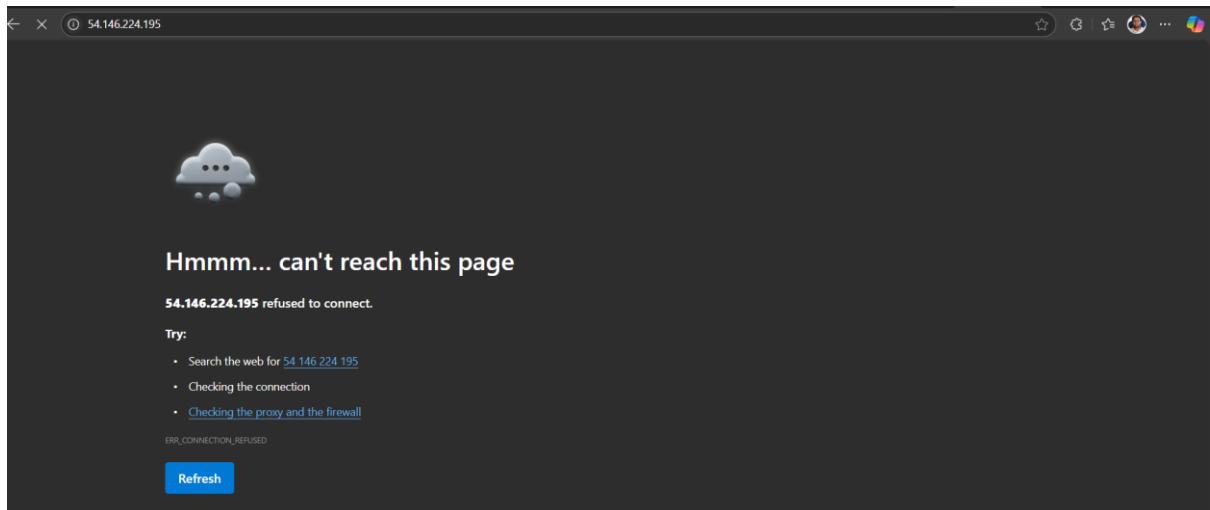
Probe prometheus.io for http_2xx

[Debug probe prometheus.io for http_2xx](#)

Metrics

Configuration

Recent Probes



EMAIL SENT – APP IS DOWN:

[FIRING:1] DatasourceNoData REACT-APP-ALERT (fe01cicnx7awwa A REACT-ALERT-APPDOWN)

Grafana <sujishreek2002@gmail.com> to me 12:10 PM (4 minutes ago)

Grafana

REACT-APP-ALERT > DatasourceNoData

1 firing instances

Firing **DatasourceNoData** **View alert**

Labels

alertname	DatasourceNoData
datasource_uid	fe01cicnx7awwa
grafana_folder	REACT-APP-ALERT
ref_id	A
rule_name	REACT-ALERT-APPDOWN

Silence

