

Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

Build Steps

≡ **Execute shell** ?

Command

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

```
git --version  
docker --version  
docker images  
docker ps
```



Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

General

Description

Plain text [Preview](#)

☐

Discard old builds ?

☐

GitHub project

☐

This project is parameterized ?

☐

Throttle builds ?

☐

Execute concurrent builds if necessary ?



Dashboard >

+ New Item

👤 People

📋 Build History

⚙ Manage Jenkins

📅 My Views

Build Queue



No builds in the queue.

Build Executor Status



1 Idle

2 Idle

Welcome

This page is for
builds or sta

Start build

Create a

Set up a c

Set up a

Configu

Learn m

Instance Configuration

Jenkins URL:

http://54.83.106.19:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this is used in the operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable in build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The user should update the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Getting Started

Create First Admin

Username

aravindu

Password

.....

Confirm password

.....

Full name

aravindu

E-mail address

aravind102@gmail.com

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

← → ↺ us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instan



Services



Search

[Alt+S]

```
[ec2-user@ip-172-31-16-115 ~]$ sudo cat /var/lib/jenkins/secrets/initialAdminPa  
d7ada011807c404593a274719c8acfad
```

```
[ec2-user@ip-172-31-16-115 ~]$ ^C
```

```
[ec2-user@ip-172-31-16-115 ~]$ █
```

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by default, you must unlock it by providing the log ([not sure where to find it?](#)) and the password.

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either the log or the file.

Administrator password

```
[ec2-user@ip-172-31-16-115 devops_project]$ sudo usermod -a -G docker jenkins
[ec2-user@ip-172-31-16-115 devops_project]$ sudo usermod -a -G docker ec2-user
[ec2-user@ip-172-31-16-115 devops_project]$ sudo chmod 777 /var/run/docker.sock
[ec2-user@ip-172-31-16-115 devops_project]$ sudo service jenkins restart
Redirecting to /bin/systemctl restart jenkins.service
[ec2-user@ip-172-31-16-115 devops_project]$
```

devops_project jenkins.war

```
[ec2-user@ip-172-31-16-115 ~]$ java -jar jenkins.war
```

Running from: /home/ec2-user/jenkins.war

webroot: /home/ec2-user/.jenkins/war

2023-11-24 13:38:31.274+0000 [id=1] INFO winstone.Logger#logInternal: Be

2023-11-24 13:38:33.051+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#

2023-11-24 13:38:33.222+0000 [id=1] INFO org.eclipse.jetty.server.Server

```
[ec2-user@ip-172-31-16-115 ~]$ wget https://get.jenkins.io/war-stable/2.414.3/j
```

--2023-11-24 13:36:09-- https://get.jenkins.io/war-stable/2.414.3/jenkins.war

Resolving get.jenkins.io (get.jenkins.io)... 20.7.178.24, 2603:1030:408:5::15a

Connecting to get.jenkins.io (get.jenkins.io)|20.7.178.24|:443... connected.

HTTP request sent, awaiting response... 302 Found

Location: https://ftp-nyc.osuosl.org/pub/jenkins/war-stable/2.414.3/jenkins.war

--2023-11-24 13:36:09-- https://ftp-nyc.osuosl.org/pub/jenkins/war-stable/2.414

Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:20

Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... con

HTTP request sent, awaiting response... 200 OK

Length: 89542047 (85M) [application/x-java-archive]

Saving to: 'jenkins.war'

jenkins.war

100%[=====

2023-11-24 13:36:10 (93.3 MB/s) - 'jenkins.war' saved [89542047/89542047]

```
[ec2-user@ip-172-31-16-115 ~]$ ls
```

devops_project jenkins.war

```
[ec2-user@ip-172-31-16-115 ~]$
```

```
[ec2-user@ip-172-31-16-115 ~]$ sudo systemctl status jenkins
```

● jenkins.service - Jenkins Continuous Integration Server

Loaded: loaded (/usr/lib/systemd/system/jenkins.service; **disabled**; preset:

Active: **active (running)** since Fri 2023-11-24 12:51:08 UTC; 32min ago

Main PID: 31032 (java)

Tasks: 39 (limit: 1114)

Memory: 376.0M

CPU: 48.607s

CGroup: /system.slice/jenkins.service

└─31032 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/jav

Installed:

jenkins-2.426.1-1.1.noarch

Complete!

[ec2-user@ip-172-31-16-115 ~]\$ sudo service jenkins start

Redirecting to /bin/systemctl start jenkins.service

[ec2-user@ip-172-31-16-115 ~]\$

[ec2-user@ip-172-31-16-115 ~]\$

Complete!

[ec2-user@ip-172-31-16-115 ~]\$ java --version

openjdk 11.0.21 2023-10-17 LTS

OpenJDK Runtime Environment Corretto-11.0.21.9.1 (build 11.0.21+9-LTS)

OpenJDK 64-Bit Server VM Corretto-11.0.21.9.1 (build 11.0.21+9-LTS, mixed mode)

[ec2-user@ip-172-31-16-115 ~]\$

i-05c7736ed1ab7501e (jenkins-instance)

PublicIPs: 54.83.106.19 PrivateIPs: 172.31.16.115

← → ↻

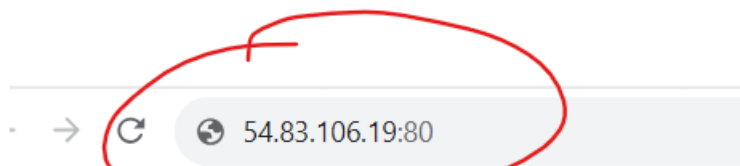
⚠ Not secure | 54.83.106.19

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to the nginx documentation on our website. Commercial support is available.

Thank you for using nginx.



Amazon Web Servic...

← → ↻ 🏠 us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&insta

```
aws | Services Search [Alt+]
[ec2-user@ip-172-31-16-115 devops_project]$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
826a29721e9a   my-devops     "/docker-entrypoint..." 6 minutes ago  Up 6 minutes
[ec2-user@ip-172-31-16-115 devops_project]$
```

i-05c7736ed1ab7501e (jenkins-instance)

PublicIPs: 54.83.106.19 PrivateIPs: 172.31.16.115



```
[ec2-user@ip-172-31-16-115 devops_project]$ sudo docker images
REPOSITORY      TAG          IMAGE ID       CREATED        SIZE
my-devops       latest      625ccd175b15   17 seconds ago 187MB
[ec2-user@ip-172-31-16-115 devops_project]$ sudo dokcer run -d -p 80:80 my-devops
sudo: dokcer: command not found
[ec2-user@ip-172-31-16-115 devops_project]$ sudo docker run -d -p 80:80 my-devops
826a29721e9a6710505dac5cef5d3a92ea3ff19b3c8c365d5d926157ad69401a
[ec2-user@ip-172-31-16-115 devops_project]$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
826a29721e9a   my-devops     "/docker-entrypoint...." 15 seconds ago Up 14 seconds
[ec2-user@ip-172-31-16-115 devops_project]$
```

i-05c7736ed1ab7501e (jenkins-instance)

PublicIPs: 54.83.106.19 PrivateIPs: 172.31.16.115

```
[ec2-user@ip-172-31-16-115 devops_project]$ sudo docker build -t my-devops . -f
[+] Building 5.4s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 144B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load build context
=> => transferring context: 209B
=> [1/2] FROM docker.io/library/nginx@sha256:10d1f5b58f74683ad34eb29287e07dab1
=> => resolve docker.io/library/nginx@sha256:10d1f5b58f74683ad34eb29287e07dab1
```

Installed:

containerd-1.7.2-1.amzn2023.0.4.x86_64	docker-24.0.5-1.
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64	libcgroup-3.0-1.
libnftnl-1.0.1-19.amzn2023.0.2.x86_64	libnftnl-1.2.2-2
runc-1.1.7-1.amzn2023.0.3.x86_64	

Complete!

[ec2-user@ip-172-31-16-115 devops_project]\$ sudo service docker start
Redirecting to /bin/systemctl start docker.service

[ec2-user@ip-172-31-16-115 devops_project]\$ sudo docker info

Client:

Version: 24.0.5
Context: default
Debug Mode: false
Plugins:
 buildx: Docker Buildx (Docker Inc.)
 Version: v0.0.0+unknown
 Path: /usr/libexec/docker/cli-plugins/docker-buildx

Server:

Containers: 0
Running: 0

[ec2-user@ip-172-31-16-115 ~]\$ git clone https://github.com/aravindubodadasari/

Cloning into 'devops_project'...

remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 4 (delta 0), reused 4 (delta 0), pack-reused 0

Receiving objects: 100% (4/4), done.

[ec2-user@ip-172-31-16-115 ~]\$ ls

devops_project

[ec2-user@ip-172-31-16-115 ~]\$ cd devops project

[ec2-user@ip-172-31-16-115 devops_project]\$ ls

Dockerfile Index.html

Installed:

git-2.40.1-1.amzn2023.0.1.x86_64
perl-Error-1:0.17029-5.amzn2023.0.2.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64

Complete!

[ec2-user@ip-172-31-16-115 ~]\$ git --version

git version 2.40.1

[ec2-user@ip-172-31-16-115 ~]\$

[EC2](#) > [Instances](#) > [i-05c7736ed1ab7501e](#) > [Connect to instance](#)

Connect to instance [Info](#)

Connect to your instance i-05c7736ed1ab7501e (jenkins-instance) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID


 [i-05c7736ed1ab7501e](#) (jenkins-instance)

Connection Type

- ☒ **Connect using EC2 Instance Connect**
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

- ☐ **Connect using EC2 Instance Connect**
Connect using the EC2 Instance Connect client, with a private IPv4 address and a V

Public IP address

 54.83.106.19

User name

Edit inbound rules [Info](#)

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

Inbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range Info
sgr-01c016308d560c1ae	SSH ▼	TCP	22
-	All TCP ▼	TCP	0 - 65535


▼ Key pair (login) [Info](#)


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

Key pair name - *required*

jenkins-keys ▼


devops_project Public

 master ▾

 1 branch

 0 tags

Go to file

 aravindubodadasari initial commit

 Dockerfile initial commit

 Index.html initial commit

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

Local

 Clone

HTTPS SSH GitH

[https://github.com/ar](https://github.com/aravindubodadasari/devops_project)

Use Git or checkout with SV



Services



Search



[EC2](#) > [Instances](#) > Launch an instance

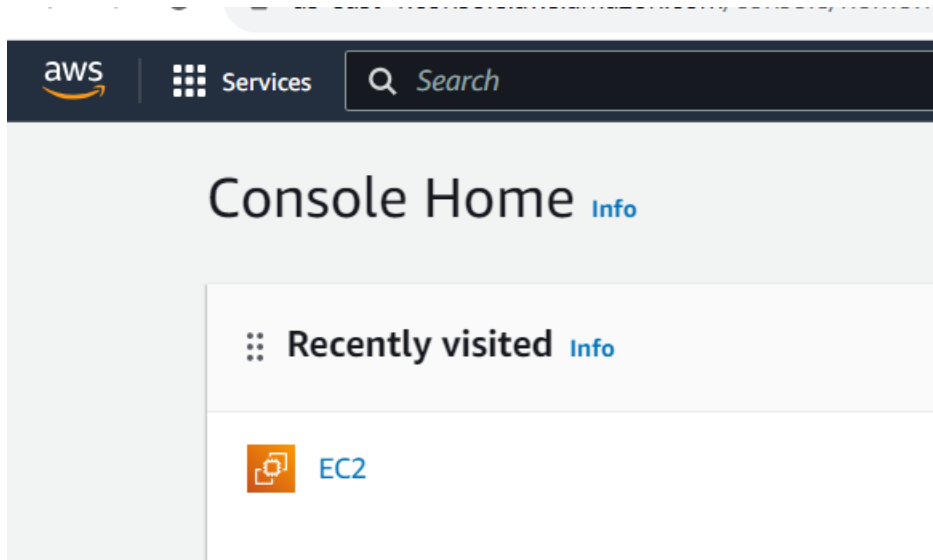
Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, following the simple steps below.

Name and tags [Info](#)

Name

jenkins-instance




Personal access tokens (classic)

Generate new token ▼

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

✓ ghp_dddZdqrwLGXBBTPcw7h9cGUfdKIH5d3x6FRQ 

Note

devops_token

What's this token for?

Expiration*

30 days

The token will expire on Sun, Dec 24 2023

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

☒ repo

Full control of private repositories

☒ repo:status

Access commit status

☒ repo_deployment

Access deployment status

☒ public_repo

Access public repositories

☒ repo:invite

Access repository invitations

☒ security_events

Read and write security events

☐ workflow

Update GitHub Action workflows

☒ write:packages

Upload packages to GitHub Package Registry

☒ read:packages

Download packages from GitHub Package Registry

☒ delete:packages

Delete packages from GitHub Package Registry

☒ admin:org

Full control of orgs and teams, read and write org projects

☒ write:org

Read and write org and team membership, read and write



GitHub Apps

OAuth Apps

Personal access tokens

Fine-grained tokens

Beta

Tokens (classic)

Personal access tokens (classic)

Tokens you have generated that can be used to authenticate to the API over Basic Authentication.

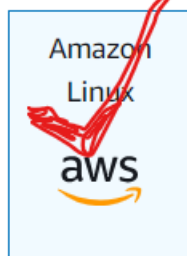
Personal access tokens (classic) function like Basic Authentication tokens, but they can be used to [authenticate to the API over Basic Authentication](#).

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

An AMI is a template that contains the software configuration (operating system, applications, etc.) required to launch your instance. Search or Browse for AMIs if you need them below.

Search our full catalog including 1000s of application and OS images

Quick Start



macOS



Ubuntu

ubuntu

Windows



Red Hat



```
Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git remote add origin https://ghp_dDDZdqrwLGXBRTPcw7h9cGUfdKIH5d3x6FRQ@github.com/aravindubodadasari/devops_project.git


Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git push -u origin HEAD
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 388 bytes | 388.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aravindubodadasari/devops_project.git
 * [new branch]      HEAD -> master
branch 'master' set up to track 'origin/master'.
```

Create a new repository

A repository contains all project files, including the revision history. Already have a p
[Import a repository.](#)

Required fields are marked with an asterisk ().*

Owner *

 aravindubodadasari ▾

Repository name *

/ devops_project

✓ devops_project is available.

...or create a new repository on the command line

```
echo "# devops_project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/aravindubodadasari/devops_project.git
git push -u origin main
```

MINGW64:/c/Users/Dell/OneDrive/Desktop/DevOps Project

```
Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git init
Reinitialized existing Git repository in C:/Users/Dell/OneDrive/Desktop/DevOps P
roject/.git/

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ ls -a
./ ../ .git/ Dockerfile Index.html

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git add .

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git commit -m "initial commit"
[master (root-commit) 7483e7a] initial commit
2 files changed, 15 insertions(+)
create mode 100644 Dockerfile
create mode 100644 Index.html

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git config --global user.mail "aravindb402@gmail.com"

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git config --global user.name "aravindu"

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@DESKTOP-LU2880U MINGW64 ~/OneDrive/Desktop/DevOps Project (master)
$
```



How to use this image

Hosting some simple static content

```
$ docker run --name some-nginx -v /some/content:/usr/share/nginx/html:ro -d nginx
```

Alternatively, a simple `Dockerfile` can be used to generate a new image that includes the necessary content (this is a much cleaner solution than the bind mount above):

```
FROM nginx
COPY static-html-directory /usr/share/nginx/html
```



Jenkins

Dashboard > simplejob > #3 > Console Output



Status



Changes



Console Output



View as plain text



Edit Build Information



Delete build '#3'



Previous Build



Console Output

Started by user [aravindu](#)

Running as SYSTEM

Building in workspace /var/lib/jenkins

[simplejob] \$ /bin/sh -xe /tmp/jenkins

+ git --version

git version 2.40.1

+ docker --version

Docker version 24.0.5, build ced09

+ docker images

REPOSITORY	TAG	IMAGE ID
------------	-----	----------

my-devops	latest	625ccd175b1
-----------	--------	-------------

+ docker ps

CONTAINER ID	IMAGE	COMMAND
--------------	-------	---------

826a29721e9a	my-devops	"/docker
--------------	-----------	----------

Finished: SUCCESS