

```

ubuntu@ip-172-31-3-0:~$ java -version
openjdk version "17.0.14" 2025-01-21
OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-124.04)
OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-124.04, mixed mode, sharing)

ubuntu@ip-172-31-3-0:~$
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-3-0:~# systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-05-01 05:19:19 UTC; 18s ago
     Main PID: 4029 (java)
       Tasks: 42 (limit: 1129)
      Memory: 308.0M (peak: 389.8M)
         CPU: 16.29s
    CGroup: /system.slice/jenkins.service
            └─4029 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

May 01 05:19:11 ip-172-31-3-0 jenkins[4029]: ba1f0c37a17f4090b01ef41b328b19e
May 01 05:19:11 ip-172-31-3-0 jenkins[4029]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
May 01 05:19:11 ip-172-31-3-0 jenkins[4029]:
May 01 05:19:11 ip-172-31-3-0 jenkins[4029]: *****
May 01 05:19:11 ip-172-31-3-0 jenkins[4029]: *****
May 01 05:19:19 ip-172-31-3-0 jenkins[4029]: 2025-05-01 05:19:19.231+0000 [id=30] INFO jenkins.InitReactorRunner$1onAttained: Completed initialization
May 01 05:19:19 ip-172-31-3-0 jenkins[4029]: 2025-05-01 05:19:19.253+0000 [id=23] INFO hudson.lifecycle.Lifecycle.onReady: Jenkins is fully up and running
May 01 05:19:19 ip-172-31-3-0 jenkins[4029]: 2025-05-01 05:19:19.267+0000 [id=7] INFO hudson.util.Retrier$1onStart: Retrier started
May 01 05:19:20 ip-172-31-3-0 jenkins[4029]: 2025-05-01 05:19:20.930+0000 [id=47] INFO hudson.DownloadService$Downloadable$load: Obtained the updated data file for hudson.task
May 01 05:19:20 ip-172-31-3-0 jenkins[4029]: 2025-05-01 05:19:20.931+0000 [id=47] INFO hudson.util.Retrier$1start: Performed the action check updates server successfully at

```

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

Script ?

```
1 pipeline {  
2   agent any  
3  
4   stages {  
5     stage('checkout') {  
6       steps {  
7         checkout scmGit(branches: [[name: '**/main']], extensions: [], userRemoteConfigs: [[url: 'https://github.com:  
8       }  
9     }  
10  }  
11 }  
12 |
```

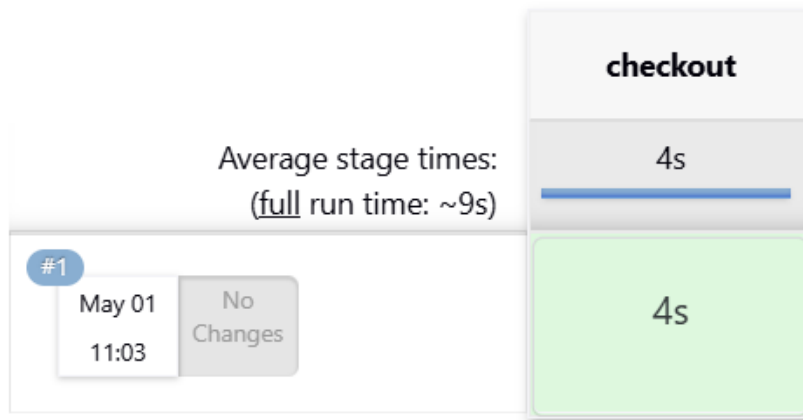
☒ Use Groovy Sandbox

Save

Apply

✓ python_pro

Stage View



Permalinks

- [Last build \(#1\), 1 min 32 sec ago](#)
- [Last stable build \(#1\). 1 min 32 sec ago](#)

```

ubuntu@ip-172-31-3-0:~$ docker --version
Docker version 28.1.1, build 4eba377
ubuntu@ip-172-31-3-0:~$ sudo usermod -aG docker jenkins
ubuntu@ip-172-31-3-0:~$ systemctl status docke=r
Command 'systemctl' not found, did you mean:
  command 'systemctl' from deb systemd (255.4-1ubuntu8.6)
  command 'systemctl' from deb systemctl (1.4.4181-1.1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-3-0:~$ systemctl status docker
Command 'systemctl' not found, did you mean:
  command 'systemctl' from deb systemd (255.4-1ubuntu8.6)
  command 'systemctl' from deb systemctl (1.4.4181-1.1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-3-0:~$ systemctl status docke
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-05-01 05:36:39 UTC; 3min 31s ago
TriggeredBy: ● docker.socket
             Docs: https://docs.docker.com
   Main PID: 5611 (dockerd)
     Tasks: 8
    Memory: 28.9M (peak: 94.5M)
       CPU: 345ms
    CGroup: /system.slice/docker.service
            └─5611 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

May 01 05:36:38 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:38.286973038Z" level=info msg="detected 127.0.0.53 nameserver,
May 01 05:36:38 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:38.446100164Z" level=info msg="Creating a container client" ad
May 01 05:36:38 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:38.508280123Z" level=info msg="Loading containers: start."
May 01 05:36:38 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:38.922444231Z" level=info msg="Loading containers: done."
May 01 05:36:39 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:39.000676149Z" level=info msg="Docker daemon" commit=01f442b co
May 01 05:36:39 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:39.000978191Z" level=info msg="Initializing buildkit"
May 01 05:36:39 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:39.130124970Z" level=info msg="Completed buildkit initializati
May 01 05:36:39 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:39.151893181Z" level=info msg="Daemon has completed initializ
May 01 05:36:39 ip-172-31-3-0 dockerd[5611]: time="2025-05-01T05:36:39.152105845Z" level=info msg="API listen on /run/docker.sock"
May 01 05:36:39 ip-172-31-3-0 systemd[1]: Started docker.service - Docker Application Container Engine.
lines 1-22/22 (END)
^C
ubuntu@ip-172-31-3-0:~$ sudo chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
ubuntu@ip-172-31-3-0:~$ sudo su -
root@ip-172-31-3-0:~# chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
root@ip-172-31-3-0:~# sudo chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
root@ip-172-31-3-0:~# sudo chmod 666 /var/run/docker.sock
root@ip-172-31-3-0:~#

```

```

ubuntu@ip-172-31-3-0:~$ sudo chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
ubuntu@ip-172-31-3-0:~$ sudo su -
root@ip-172-31-3-0:~# chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
root@ip-172-31-3-0:~# sudo chmod 666 /var/run/docker.socket
chmod: cannot access '/var/run/docker.socket': No such file or directory
root@ip-172-31-3-0:~# sudo chmod 666 /var/run/docker.sock
root@ip-172-31-3-0:~# systemctl stop docker
Stopping 'docker.service', but its triggering units are still active:
docker.socket
root@ip-172-31-3-0:~# systemctl start docker
root@ip-172-31-3-0:~# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-05-01 05:44:27 UTC; 17s ago
TriggeredBy: ● docker.socket
             Docs: https://docs.docker.com
   Main PID: 5987 (dockerd)
     Tasks: 8
    Memory: 86.8M (peak: 86.9M)
       CPU: 339ms
    CGroup: /system.slice/docker.service
            └─5987 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.450796695Z" level=info msg="[graphdriver] using prior stor
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.456374545Z" level=info msg="Loading containers: start."
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.782365176Z" level=warning msg="Error (Unable to complete a
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.824639356Z" level=info msg="Loading containers: done."
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.851001051Z" level=info msg="Docker daemon" commit=01f442b
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.851653227Z" level=info msg="Initializing buildkit"
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.926397375Z" level=info msg="Completed buildkit initializ
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.938172145Z" level=info msg="Daemon has completed initializ
May 01 05:44:27 ip-172-31-3-0 dockerd[5987]: time="2025-05-01T05:44:27.938211317Z" level=info msg="API listen on /run/docker.sock"
May 01 05:44:27 ip-172-31-3-0 systemd[1]: Started docker.service - Docker Application Container Engine.
lines 1-22/22 (END)
^C
root@ip-172-31-3-0:~#

```

Plugins

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress

Q docker


Install

Install	Name	Released
<input checked="" type="checkbox"/>	Docker Commons 451.vd12c371eeeb_3 Library plugins (for use by other plugins) docker Provides the common shared functionality for various Docker-related plugins.	1 mo 20 days ago
<input checked="" type="checkbox"/>	Docker Pipeline 611.v16e84da_6d3ff pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	1 mo 27 days ago
<input checked="" type="checkbox"/>	Docker API 3.5.0-108.v211cd21c383 Library plugins (for use by other plugins) docker This plugin provides docker-java API for other plugins.	29 days ago
<input type="checkbox"/>	Docker 1274.vc0203fd2e74 Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	1 mo 24 days ago

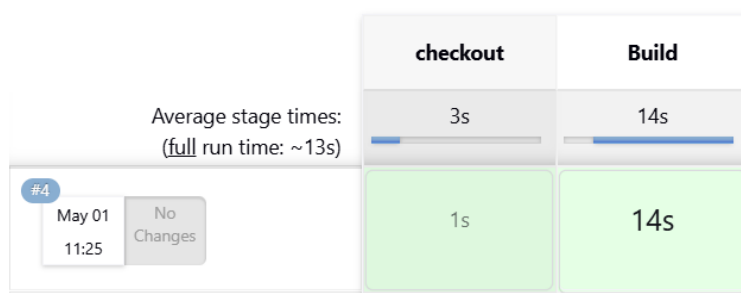
Script ?

```
2 agent any
3
4 stages {
5     stage('checkout') {
6         steps {
7             checkout scmGit(branches: [[name: '*/main']], extensions: [], userRemoteConfigs: [[url: 'https://git
8         }
9     }
10    stage('Build') {
11        steps {
12            sh 'docker build -t image_docker:latest .'
13        }
14    }
15 }
16 }
```

Use Common Configuration ?

 python_pro

Stage View



```

ubuntu@ip-172-31-3-0:~$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
image_docker  latest    649134e1c9ef   2 minutes ago  137MB
ubuntu@ip-172-31-3-0:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
ubuntu@ip-172-31-3-0:~$

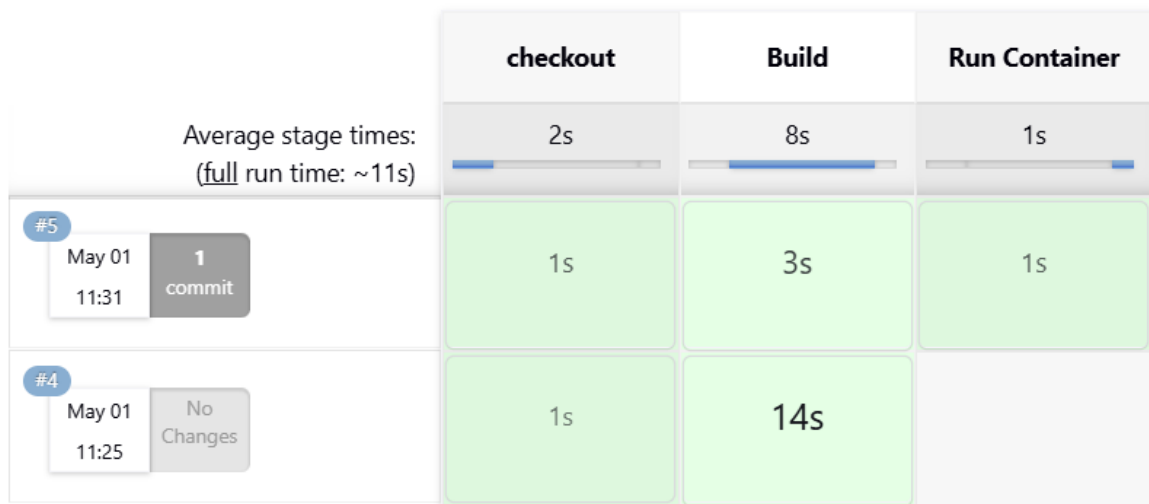
```

Script ?

```

9      }
10     stage('Build') {
11         steps {
12             sh 'docker build -t image_docker:latest .'
13         }
14     }
15     stage('Run Container') {
16         steps {
17             sh 'docker run -d --name my_container -p 8085:8085 image_docker'
18         }
19     }
20 }
21 }
22

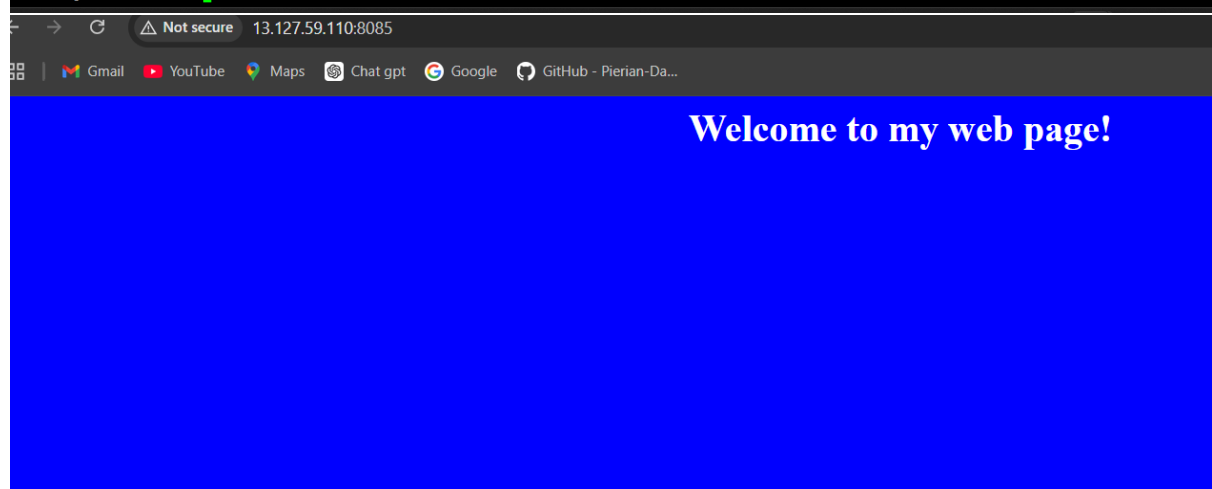
```



```

ubuntu@ip-172-31-3-0:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
735fc1b674c4   image_docker  "python app.py"         About a minute ago  Up About a minute  0.0.0.0:8085->8085/tcp, [::]:8085->8085/tcp  my_container
ubuntu@ip-172-31-3-0:~$

```



Amazon ECR

Private registry

Repositories

Amazon Elastic Container Registry

Private registry

Repositories

Features & Settings

Public registry

Repositories

Settings

ECR public gallery

Amazon ECS

Amazon EKS

Successfully created myimages

Private repositories (1)

Search by repository substring

Repository name	URI	Created at	Tag immutability	Encryption type
myimages	448049823362.dkr.ecr.ap-south-1.amazonaws.com/myimages	May 01, 2025, 11:34:24 (UTC+05.5)	Mutable	AES-256

```
You can now run: /usr/local/bin/aws --version
root@ip-172-31-3-0:~# aws --version
aws-cli/2.27.5 Python/3.13.2 Linux/6.8.0-1024-aws exe/x86_64.ubuntu.24
root@ip-172-31-3-0:~#
```

Roles (3)

Info

Delete

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS Service: support (Service-Linker)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
ecraccess	AWS Service: ec2	13 hours ago

Roles Anywhere

Info

Authenticate your non AWS workloads and securely provide access to AWS services.

EC2 > Instances > i-0a08444a1ffa46c33 > Modify IAM role

Modify IAM role

Info

Attach an IAM role to your instance.

Instance ID

i-0a08444a1ffa46c33 (python)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

ecraccess

Create new IAM role

Cancel

Update IAM role

Make sure that you have the latest version of the AWS CLI and Docker installed. For more information, see [Getting started with Amazon ECR](#).

Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see [Registry Authentication](#).

1. Retrieve an authentication token and authenticate your Docker client to your registry. Use the AWS CLI:

```
aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin 448049823362.dkr.ecr.ap-south-1.amazonaws.com
```

Note: If you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.

2. Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions [here](#). You can skip this step if your image is already built:

```
docker build -t myimages .
```

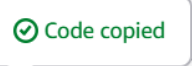
3. After the build completes, tag your image so you can push the image to this repository:

```
docker tag myimages:latest 448049823362.dkr.ecr.ap-south-1.amazonaws.com/myimages:latest
```

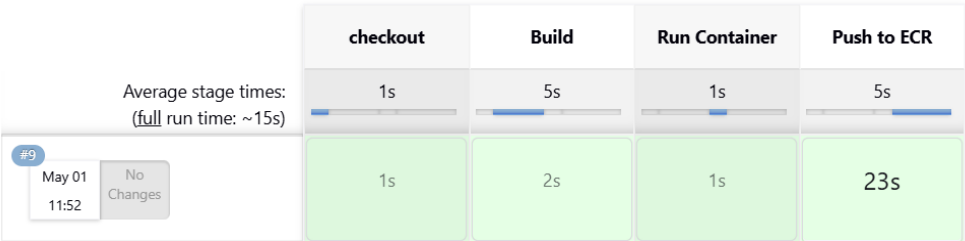
4. Use the following command to push this image to your newly created AWS repository:

```
docker push 448049823362.dkr.ecr.ap-south-1.amazonaws.com/myimages:latest
```

```
pipeline {
  stages {
    stage('Build') {
      steps {
        sh 'docker build -t myimages:latest .'
      }
    }
    stage('Run Container') {
      steps {
        sh 'docker run -d --name my_container -p 8085:8085 myimages:latest'
      }
    }
    stage('Push to ECR') {
      steps {
        sh 'aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin 448049823362.dkr.ecr.ap-south-1.amazonaws.com'
        sh 'docker tag myimages:latest 448049823362.dkr.ecr.ap-south-1.amazonaws.com/myimages:latest'
        sh 'docker push 448049823362.dkr.ecr.ap-south-1.amazonaws.com/myimages:latest'
      }
    }
  }
}
```



Stage View



Images (1)



Delete

Details

Scan

View push commands

Search artifacts

< 1 > ⚙

<input type="checkbox"/>	Image tag ▾	Artifact type	Pushed at ▾	Size (MB) ▾	Image URI	Digest	Last recorded pull time ▾
<input type="checkbox"/>	latest	Image	May 01, 2025, 11:52:32 (UTC+05.5)	52.32	Copy URI	sha256:8f7979f76a51ec9...	-