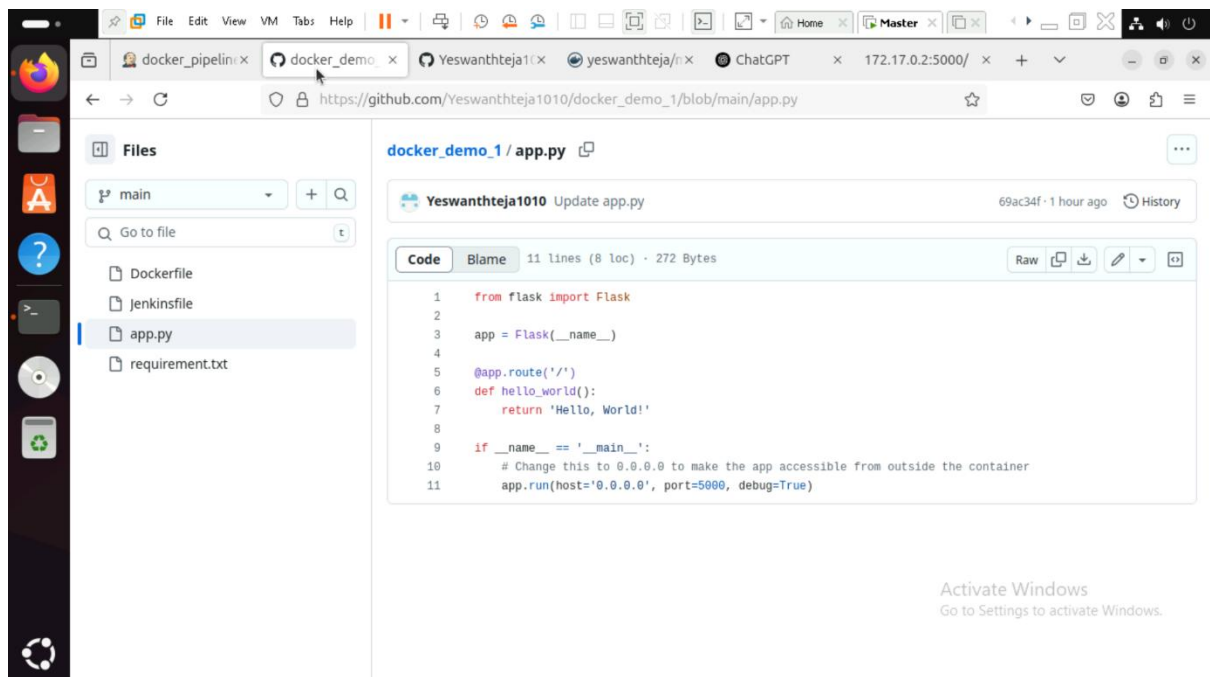
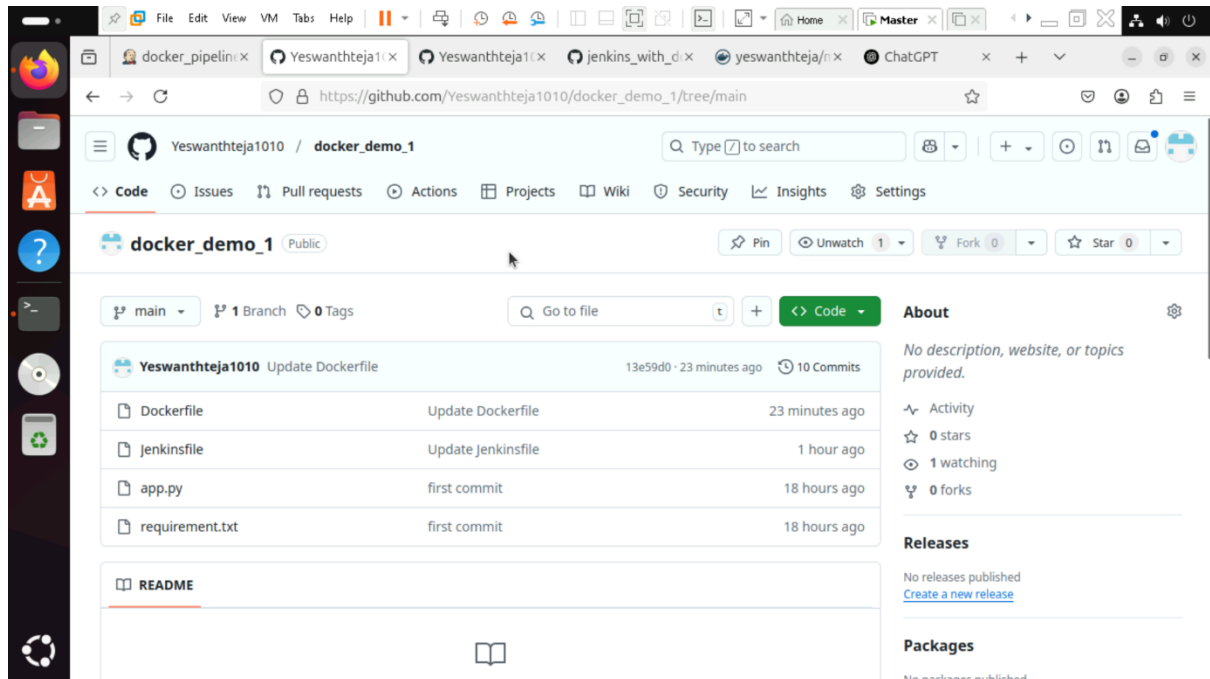


KARANAM YESWANTH TEJA - 289224

DOCKER ASSIGNMENTS

1)



docker_pipeline x docker_demo_ x Yeswanthteja1 x yeswanthteja/r x ChatGPT x 172.17.0.2:5000/ x + -

← → ↻ 🔒 https://github.com/Yeswanthteja1010/docker_demo_1/blob/main/Jenkinsfile 80% ☆ 🔒 👤 📄 ☰

Files

main + 🔍

Go to file 🔍

- 📄 Dockerfile
- 📄 Jenkinsfile
- 📄 app.py
- 📄 requirement.txt

Yeswanthteja1010 Update Jenkinsfile De64a86 · 3 hours ago 🕒 History

Code Blame 29 lines (25 loc) · 784 Bytes 🧑‍💻 Code 55% faster with GitHub Copilot

Raw 📄 📄 📄 📄

```
1 pipeline {
2   agent any
3
4   environment {
5     DOCKER_IMAGE = 'yeswanthteja/my-flask-app:latest'
6   }
7
8   stages {
9     stage('Clone Repository') {
10      steps {
11        git url: 'https://github.com/Yeswanthteja1010/docker_demo_1.git', branch: 'main'
12      }
13    }
14
15    stage('Build Docker Image') {
16      steps {
17        sh 'docker build -t $DOCKER_IMAGE .'
18      }
19    }
20
21    stage('Push Docker Image') {
22      steps {
23        withDockerRegistry([credentialsId: 'Docker_Credentials', url: 'https://index.docker.io/v1/']) {
24          sh 'docker push $DOCKER_IMAGE'
25        }
26      }
27    }
28  }
29 }
```

Activate Windows
Go to Settings to activate Windows.

docker_pipeline x docker_demo_ x Yeswanthteja1 x yeswanthteja/r x ChatGPT x 172.17.0.2:5000/ x + -

← → ↻ 🔒 https://github.com/Yeswanthteja1010/docker_demo_1/blob/main/Dockerfile 90% ☆ 🔒 👤 📄 ☰

Files

main + 🔍

Go to file 🔍

- 📄 Dockerfile
- 📄 Jenkinsfile
- 📄 app.py
- 📄 requirement.txt

docker_demo_1 / Dockerfile

Yeswanthteja1010 Update Dockerfile 13e59d0 · 2 hours ago 🕒 History

Code Blame 22 lines (15 loc) · 546 Bytes 🧑‍💻 Code 55% faster with GitHub Copilot

Raw 📄 📄 📄 📄

```
1 # Use an official Python runtime as a parent image
2 FROM python:3.9-slim
3
4 # Set the working directory in the container
5 WORKDIR /app
6
7 # Copy the current directory contents into the container at /app
8 COPY . /app/
9
10 COPY requirement.txt /app/
11
12 # Install any needed dependencies
13 RUN pip install --no-cache-dir -r requirement.txt
14
15 # Make port 5000 available to the world outside this container
16 EXPOSE 5000
17
18 # Define environment variable to avoid Python buffering
19 ENV PYTHONUNBUFFERED 1
20
21 # Run app.py when the container launches
22 CMD ["python", "app.py"]
```

Activate Windows
Go to Settings to activate Windows.

docker_pipeline x docker_demo x Yeswanthteja1 x yeswanthteja/r x ChatGPT x 172.17.0.2:5000/ x + -

https://hub.docker.com/repository/docker/yeswanthteja/my-flask-app/general

New Introducing our new CEO Don Johnson - Read More →

dockerhub Explore Repositories Organizations Usage Search Docker... ctrl+K

yeswanthteja / Repositories / my-flask-app / General Using 0 of 1 private repositories.

yeswanthteja/my-flask-app Last pushed 9 minutes ago · Repository size: 48.2 MB

Add a description Add a category

Docker commands Public view

To push a new tag to this repository:

```
docker push yeswanthteja/my-flask-app:tagname
```

General Tags Image Management BETA Builds Collaborators Webhooks Settings

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	less than 1 day	14 minutes

Automated builds

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

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

docker_pipeline x docker_demo x Yeswanthteja1 x Docker Hub Co x ChatGPT x 172.17.0.2:5000/ x + -

https://hub.docker.com/repositories/yeswanthteja

New Introducing our new CEO Don Johnson - Read More →

dockerhub Explore Repositories Organizations Usage Search Docker... ctrl+K

yeswanthteja Search by repository name All content Create a repository

Name	Last Pushed ↑	Contains	Visibility	Scout
yeswanthteja/my-flask-app	about 2 hours ago	IMAGE	Public	Inactive
yeswanthteja/docker_demo	about 21 hours ago		Public	Inactive

1-2 of 2

Activate Windows
Go to Settings to activate Windows.

jenkins.docker_pipeline_1

Dashboard > docker_pipeline_1 >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Favorite

Open Blue Ocean

Stages

Rename

Pipeline Syntax

docker_pipeline_1

Add description

Stage View

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

	Declarative: Checkout SCM	Clone Repository	Build Docker Image	Push Docker Image
#13 12:39	1s	1s	11s	21s
#12 11:48	1s	1s	11s	24s
#11 11:46	1s	1s	2s	171ms

jenkins.docker_pipeline_1

Dashboard > docker_pipeline_1 > Configuration

Configure

General

Triggers

Pipeline

Advanced

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/Yeswanthteja1010/docker_demo_1.git

Credentials ?

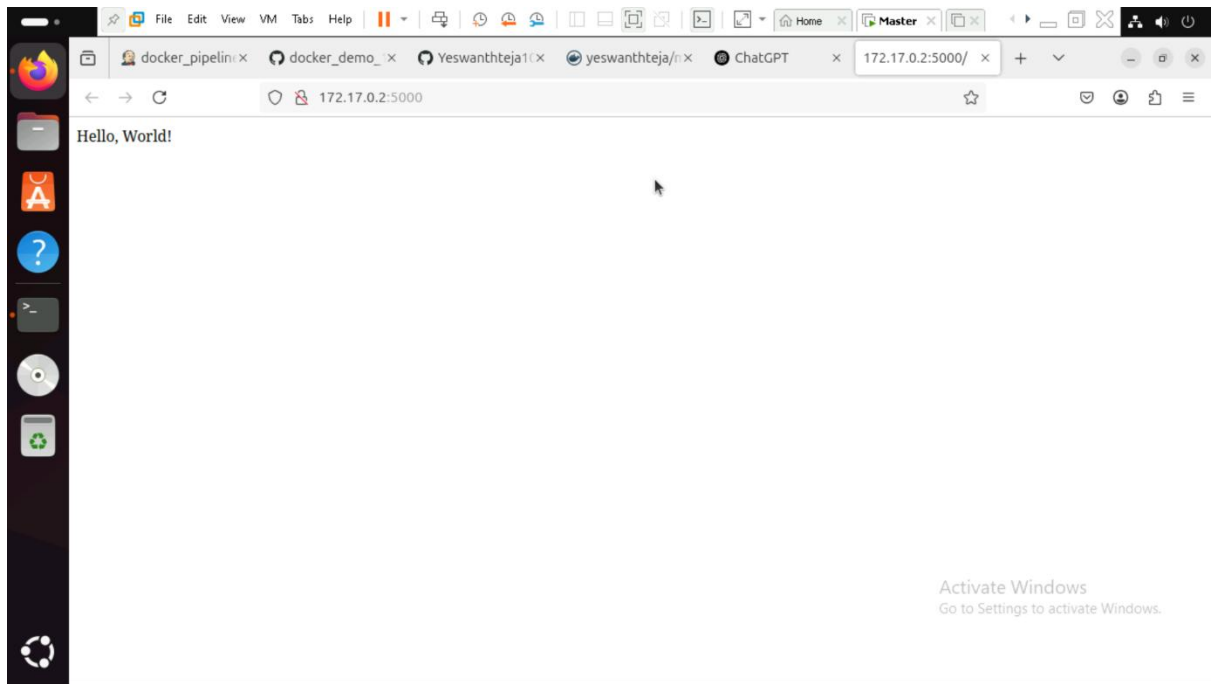
- none -

+ Add

Advanced

Save

Apply



2.Installing Dockers and running sample nginx image & container.

```
master@master-vm:~/Desktop$ sudo apt update && sudo apt upgrade -y
[sudo] password for master:
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
Get more security updates through Ubuntu Pro with 'esm-apps' enabled:
  libpostproc55 libavcodec58 libavutil56 libswscale5 libswresample3
  libavformat58 libavfilter7
Learn more about Ubuntu Pro at https://ubuntu.com/pro
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
master@master-vm:~/Desktop$ sudo apt install -y ca-certificates curl gnupg lsb-release
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu4).
lsb-release set to manually installed.
ca-certificates is already the newest version (20240203~22.04.1).
curl is already the newest version (7.81.0-1ubuntu1.20).
gnupg is already the newest version (2.2.27-3ubuntu2.1).
gnupg set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
master@master-vm:~/Desktop$ sudo mkdir -p /etc/apt/keyrings
master@master-vm:~/Desktop$ cd ..
```

```
master@master-vm: ~/Desktop
master@master-vm:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo tee
/etc/apt/keyrings/docker.asc > /dev/null
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQI=[B]FIt2loBEADhWpZ8/wvZ6hUTiXOWQHXMAlaFHCpH9hAtr4F1y2+OYdbtMuth
lqqwp028AqyY+PRfVMTsYMBjuQuu5byyKR01BbqYhuS3jTqQmIjZ/bJvXqnmiVXh
38UuLa+z077PxyxQhu5BbqntTPQMfiyqEiU+BKbq2WmANUKQf+1AmZY/Iru0Xbnq
L4C1+gJ8vfmXQt99npCaxEjaNRVYf0S8QcixNzHUyNb6emjLAnyEVLZzeqo7XKl7
UrwV5inawTSzWnvtJEjj4nJL8NsLwscLPQUhTQ+7BbQXAwAmeHCUTQIvVWXqw0N
cmhh4HgeQscQHYgOJjjDVfoY5MucvglbIgCqfzAHW9jxmRL4qbmZj+b1XoePEtht
ku4bIQN1X5P07fNWzlgARL5Z4POXDDZTLIQ/El58j9kp4bnWRCJW0lya+f8ocodo
vZZ+Doi+fy4D5ZGrL4XEcIQP/Lv5uFyf+kQtI/94VFYVJ0leAv8W92KdgDkhTcTD
G7c0tIkVEKNUq48b3aQ64NOZQW7fVjfoKwEZd0qPE72Pa45jrZzvUFxSpdiNk2tZ
XYukHjLxxEgBdC/J3cMMNRE1F4NCA3ApfV1Y7/hTeOnmDuDYwr9/obA8t016Ylj
q5rddywPf4JF8mXUW5eCN1vAFHxeg9ZWemhBtQMgXxNw9M+Z6hWwc6ahmwARAQAB
tCtEb2NRZXIguUmVsZWZfZSZAoQ0UgZGVlKSA8ZG9ja2VyYGRvY2tIc15jb20+IQI3
BBMBCgAhBQJYrefAAhsvBQsJCACDBRUKCQgLBRYCAwEAAh4BAheAAAoJEI2BgDwO
v82IsskP/iQZo68fLDQmNvn8X5XTd6RRaUH33kXYXquT6NkHJciS7E2gTJmqvMqd
tI4mNYHCSEYxI5qrcYV5YqX9P6+Ko+vozo4nseUQLPH/ATQ4qL0Zok+1jkag3Lgk
jonyUf9bwtWxFp05HC3GMHPPhcUSexCxQLQvnFWXD2sWLKivHp2fT8QbRGeZ+d3m
6fqcd5Fu7pxsqm0EUDK5NL+nPIgYhN+auTrhgzhK1CShfGccM/wfRleI9Utz6p9P
XRKILWnXtT4qNGZNTN0tR+NLG/6Bqd80YBaFAUcue/w1VW6JQ2VGYZHnZu9S8LMc
FYBa5Ig9PxxwGQ0gq6RDKDbV+PqTQT5EFMeR1mrjckk4DQJjbxemZbiNMG5kGECA8
```

```

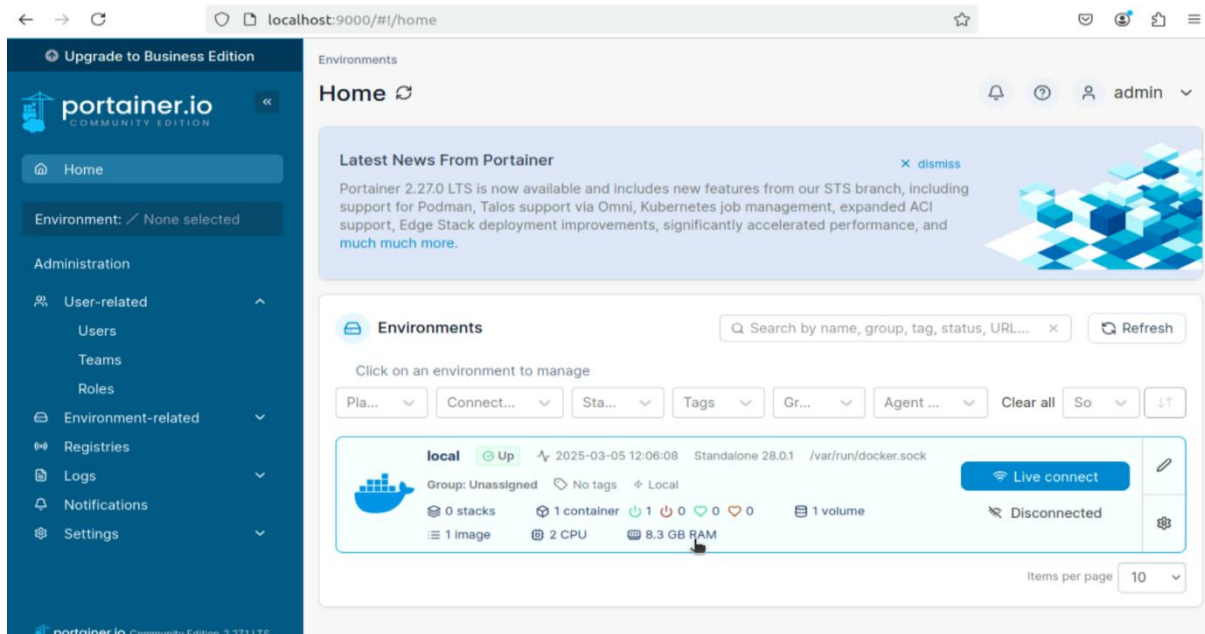
master@master-vm: ~
master@master-vm: ~/Desktop
master@master-vm:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo tee /etc/apt/keyrings/docker.asc > /dev/null
master@master-vm:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
master@master-vm:~$ echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
master@master-vm:~$ sudo apt update
Get:1 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:5 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [45.7 kB]
Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease
Fetched 94.5 kB in 3s (30.5 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
master@master-vm:~$ sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras git git-man liberror-perl libslirp0 pigz
  slirp4netns
Suggested packages:
  cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc
  git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli
  docker-ce-rootless-extras docker-compose-plugin git git-man liberror-perl
  libslirp0 pigz slirp4netns
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 124 MB of archives.
After this operation, 458 MB of additional disk space will be used.
Get:1 https://download.docker.com/linux/ubuntu jammy/stable amd64 containerd.io amd64 1.7.25-1 [29.6 MB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 liberror-perl all 0.17029-1 [26.5 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-man all 1:2.34.1-1ubuntu1.12 [955 kB]
Get:5 https://download.docker.com/linux/ubuntu jammy/stable amd64 docker-buildx-plugin amd64 0.21.1-1-ubuntu.22.04-jammy [35.3 MB]

```

```

master@master-vm: ~
master@master-vm: ~/Desktop
b/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/sy
stemd/system/docker.socket.
Setting up git (1:2.34.1-1ubuntu1.12) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.9) ...
master@master-vm:~$ sudo systemctl start docker
master@master-vm:~$ sudo systemctl enable docker
Synchronizing state of docker.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable docker
master@master-vm:~$ sudo docker --version
Docker version 28.0.1, build 068a01e
master@master-vm:~$ sudo usermod -aG docker $USER
master@master-vm:~$ newgrp docker
master@master-vm:~$ sudo docker pull portainer/portainer-ce
Using default tag: latest
latest: Pulling from portainer/portainer-ce
436768c74267: Pull complete
d61825c69234: Pull complete
04de093ad5ed: Pull complete
a528983d077c: Pull complete
26eb502a78ed: Pull complete
b2724536dfda: Pull complete
5b45cfb2ea0c: Pull complete
20b115ea6339: Pull complete
8e73efb50b28: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:99c3047d44991af08f2a34df16e69ae2654bee43444b2e9857aa6b5864c4f602
Status: Downloaded newer image for portainer/portainer-ce:latest
docker.io/portainer/portainer-ce:latest
master@master-vm:~$ sudo docker run -d -p 9000:9000 --name=portainer --restart=always \
-v /var/run/docker.sock:/var/run/docker.sock \
-v portainer_data:/data \portainer/portainer-ce
4785ed75f535d799cf3a70592bd0889975c55b9e1b18fcf0a85c6a24e5174437
master@master-vm:~$ sudo docker --version
Docker version 28.0.1, build 068a01e
master@master-vm:~$

```

```
master@master-vm:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
7cf63256a31a: Pull complete
bf9acace214a: Pull complete
513c3649bb14: Pull complete
d014f92d532d: Pull complete
9dd21ad5a4a6: Pull complete
943ea0f0c2e4: Pull complete
103f50cb3e9f: Pull complete
Digest: sha256:9d6b58feebd2dbd3c56ab585333d627cc6e281011cfd6050fa4bcf2072c9496
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
master@master-vm:~$ docker run -d -p 8080:80 --name my-nginx nginx
e7ac5be0db814ac7f7a18068a42718ef987962cb0d141e42401ab90c73bf996b
master@master-vm:~$ mkdir nginx_project && cd nginx_project
master@master-vm:~/nginx_project$ nano index.html
master@master-vm:~/nginx_project$ chmod 755 index.html
master@master-vm:~/nginx_project$ docker run -d -p 8081:80 --name custom-nginx -v
flag needs an argument: 'v' in -v

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run 'docker run --help' for more information
master@master-vm:~/nginx_project$ docker run -d -p 8081:80 --name custom-nginx -v
$(pwd):/usr/share/nginx/html nginx
flag needs an argument: 'v' in -v


Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run 'docker run --help' for more information
bash: /home/master/nginx_project:/usr/share/nginx/html: No such file or directory
master@master-vm:~/nginx_project$ docker run -d -p 8081:80 --name custom-nginx -v $(pwd):/usr/share/nginx/html nginx
1ea5a5e0686f088ccf0f075785e0bb88a9ef162a5fe4a56581ef00b987d88e48
master@master-vm:~/nginx_project$
```



Hello, this is a custom Nginx page inside Docker!

Upgrade to Business Edition

 **portainer.io**
COMMUNITY EDITION

Home

local

Dashboard

Templates

Stacks

Containers

Images

Networks

Volumes

Events

Host

Administration

User-related

portainer.io Community Edition 2.271 LTS

Image list

Pull image

Registry

Docker Hub (anonymous)

Image*

docker.io

e.g. my-image:my-tag

Search

Image name is required.

Advanced mode

Pull the image

Your authorized pull count quota as an anonymous user is now exceeded. You will not be able to pull any image from the DockerHub registry.

Images

Search...

Remove

Import


Export

Build a new image

<input type="checkbox"/>	Id	Filter	Tags	Size	Created
<input type="checkbox"/>	sha256:b52e0b094bc0e26c9eddc9e4ab7a64...		nginx:latest	192 MB	2025-02-06 02:57:16
<input type="checkbox"/>	sha256:ac6e9f6834c85757f7433797741a05...		portainer/portainer-ce:latest	268 MB	2025-02-27 04:18:46

Items per page 10

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Containers

Container list

Containers

Search..

Start

Stop

Kill
















Restart

Pause

Resume

Remove

Add container

<input type="checkbox"/>	Name	State	Filter	Quick Actions	Stack	Image	Created	IP Address	P
<input type="checkbox"/>	custom-nginx	running		   	-	nginx	2025-03-05 12:31:10	172.17.0.4	
<input type="checkbox"/>	my-nginx	running		   	-	nginx	2025-03-05 12:17:14	172.17.0.3	
<input type="checkbox"/>	portainer	running		   	-	portainer/portainer-ce	2025-03-05 12:04:52	172.17.0.2	

Items per page 10