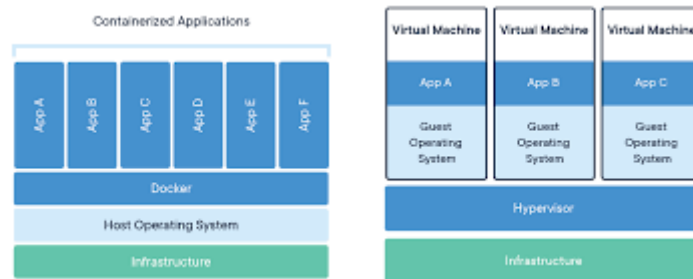


P6: Migrating a Web Application to Docker Containers

Docker is a set of platform as a service (PaaS) products that use OS-level virtualization to deliver software in packages called containers.

A Docker container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime,



CREATE EC2 INSTANCE

- LINUX MACHINE
- ENABLE HTTPS AND HTTP

Launch an instance [Info](#)

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

Name and tags [Info](#)

Name

DOCKER-DEMO

Add additional tags

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

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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

Recents

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Linux

SUSE

Debian

debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-08b1d20c6a69a7100 (64-bit (x86), uefi-preferred) / ami-0941f6213461ee4e0 (64-bit (Arm), uefi)

Free tier eligible

Virtualization: hvm

ENA enabled: true

Root device type: ebs

Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...[read more](#)
ami-08b1d20c6a69a7100

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

[Preview code](#)

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

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

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)
vpc-0dc4bbdbcb80c11cb

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable
Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-3' with the following rules:

☒ Allow SSH traffic from Helps you connect to your instance

☒ Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ Summary

Number of instances [Info](#)

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...[read more](#)
ami-08b1620c8a93b7100

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

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

Remaining all default and launch instance

GO TO UR INSTANCE

EC2 > Instances > i-0cfb9b34d3e9d7a04

EC2

- Dashboard
- EC2 Global View
- Events
- ▼ Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- ▼ Images**
 - AMIs
 - AMI Catalog
- ▼ Elastic Block Store**

Instance summary for i-0cfb9b34d3e9d7a04 (DOCKER-DEMO) [Info](#)

Updated less than a minute ago

Instance ID
i-0cfb9b34d3e9d7a04

IPv6 address
-

Hostname type
IP name: ip-172-31-43-233.eu-north-1.compute.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
13.60.246.52 [Public IP]

IAM Role
-

Public IPv4 address
13.60.246.52 | [open address](#)

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-43-233.eu-north-1.compute.internal

Instance type
t3.micro

VPC ID
vpc-0dc4bbdbcb80c11cb

Subnet ID
subnet-0fd29b510af5dba3

Private IPv4 addresses
172.31.43.233

Public IPv4 DNS
ec2-13-60-246-52.eu-north-1.compute.amazonaws.com | [open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendation s.
[Learn more](#)

Auto Scaling Group name
-

[Connect](#) [Instance state](#) [Actions](#)

Press connect

EC2 > Instances > i-0cfb9b34d3e9d7a04 > Connect to instance

Connect to your instance i-0cfb9b34d3e9d7a04 (DOCKER-DEMO) using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID
i-0cfb9b34d3e9d7a04 (DOCKER-DEMO)

Connection Type

☒ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

☐ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IPv4 address
13.60.246.52

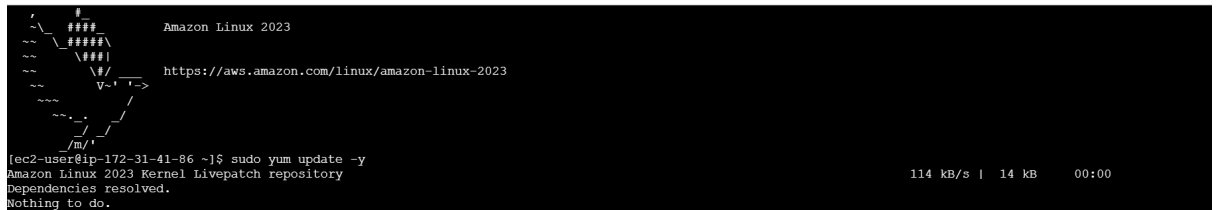
☐ IPv6 address
-

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#) [Connect](#)

IT WILL TAKE YOU LINUX MACHINE



EXECUTE BELOW COMMANDS IN LINUX ENGINE

```
sudo yum update -y  
sudo yum install docker -y  
sudo service docker start  
sudo service docker status  
(ctrl Z)  
sudo su  
docker version  
docker pull nginx  
docker images  
docker run -d -p 80:80 nginx  
docker ps
```

after this go to ec2 instance -□ connect -□ copy public ip

EC2 > Instances > i-0cfb9b34d3e9d7a04 > Connect to instance

Connect to your instance i-0cfb9b34d3e9d7a04 (DOCKER-DEMO) using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID
i-0cfb9b34d3e9d7a04 (DOCKER-DEMO)

Connection Type

☒ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

☒ Public IPv4 address
13.60.246.52

☐ IPv6 address

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

ec2-user

Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel Connect

Paste it in basic browser

