

DevOps Módulo 12 - IT Talent

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Infraestrutura da AWS

Região é um local que a AWS disponibiliza para rodarmos nossa aplicação na nuvem, essas infraestruturas são escolhidas pelo Dev, mas as localidades são escolhidas pela Amazon de forma estratégica contra desastres ambientais futuros.



Regiões de disponibilidade

São regiões que ficam dentro de Zonas da AWS, e nessas Regiões são disponibilizados os data centers. A principal funcionalidade disso é exatamente distribuir, em uma região, a disponibilidade de serviços pela AWS

Criação instância EC2

Instancia EC2:

Resources


[EC2 Global view](#)




You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	0	Auto Scaling Groups	0
Dedicated Hosts	0	Elastic IPs	0
Instances	0	Key pairs	0
Load balancers	0	Placement groups	0
Security groups	1	Snapshots	0
Volumes	0		

Launch instance


To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.


[Launch instance](#)



[Migrate a server](#)


Note: Your instances will launch in the US East (N. Virginia) Region

Service health

[AWS Health Dashboard](#)






Zones

Zone name	Zone ID

Tags:

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](#)

Key	Value	Resource types
<input type="text" value="Origem"/>	<input type="text" value="IT Talent"/>	<input type="text" value="Select resource types"/>

Add new tag

You can add up to 49 more tags.

Remove

Instances

AMI imagens de OS:

▼ 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

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Lin

SUSE

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-00beae93a2d981137 (64-bit (x86), uefi-preferred) / ami-0bfac9aa66a558bd8 (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2023 AMI 2023.4.20240528.0 x86_64 HVM kernel-6.1

Architecture

64-bit (x86)

Boot mode

uefi-preferred

AMI ID

ami-00beae93a2d981137

Verified provider

Familia e tamanho:

▼ **Instance type** [Info](#) | [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.0716 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

☐ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

Chave de conexão com a instancia:

▼ **Key pair (login)** [Info](#)

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*

Select

[Create new key pair](#)

Info | Get advice

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

ChaveEC2

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

Network com configuração de firewall virtual, permitindo tráfego de dados. para um grupo específico, e pode escolher entre tráfego de qualquer lugar, ou tráfego partindo apenas do meu IP ou outro IP.

▼ Network settings

Info

Edit

Network

Info

vpc-072d9262b01e5616d

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-1' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere

0.0.0.0/0

☐ 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.

×

Armazenamento:

▼ Configure storage

Info

Advanced

1x

8

GiB

gp3

Root volume (Not encrypted)

ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

×

Add new volume

ⓘ Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

↻

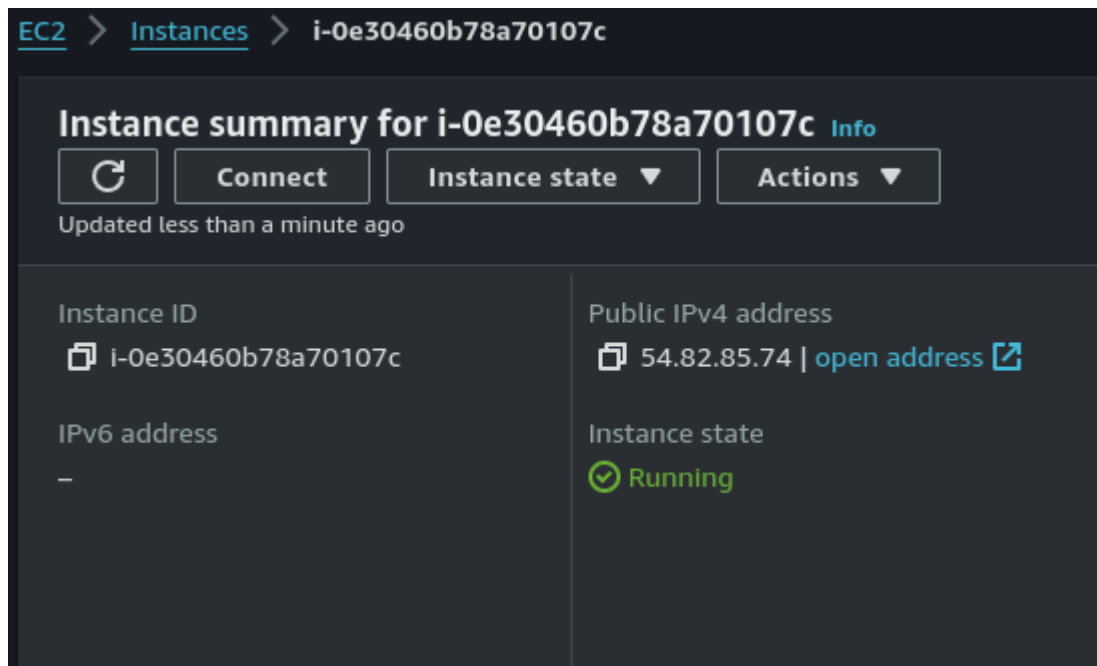
0 x File systems

Edit

Conexão SSH

A nossa instância foi criada, mas para gerenciar nossa aplicação Linux remotamente, temos que ter uma conexão SSH, com um cliente SSH, que é uma criptografia segura para uma acesso não seguro.

Na nossa instância temos o nosso IP



mudar o acesso da nossa chave para outros usuários de sistema, com apenas leitura, com o comando abaixo:

```
chmod 400 arquivo.pem
```

agora é so rodar o comando abaixo com ssh e IPv4 Address acima rodando o comando abaixo:

```
ssh -i /path/key-pair-name.pem instance-user-name@instance-pu  
  
ssh -i ec2-user@54.82.85.74
```

