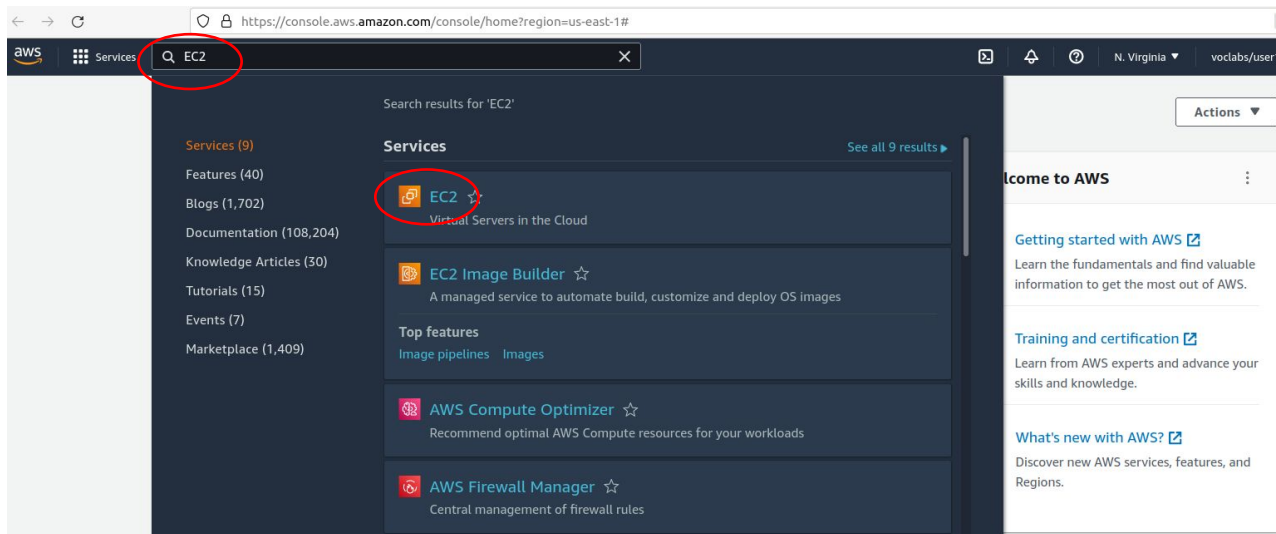


# Criação e execução de uma instância no AWS/EC2

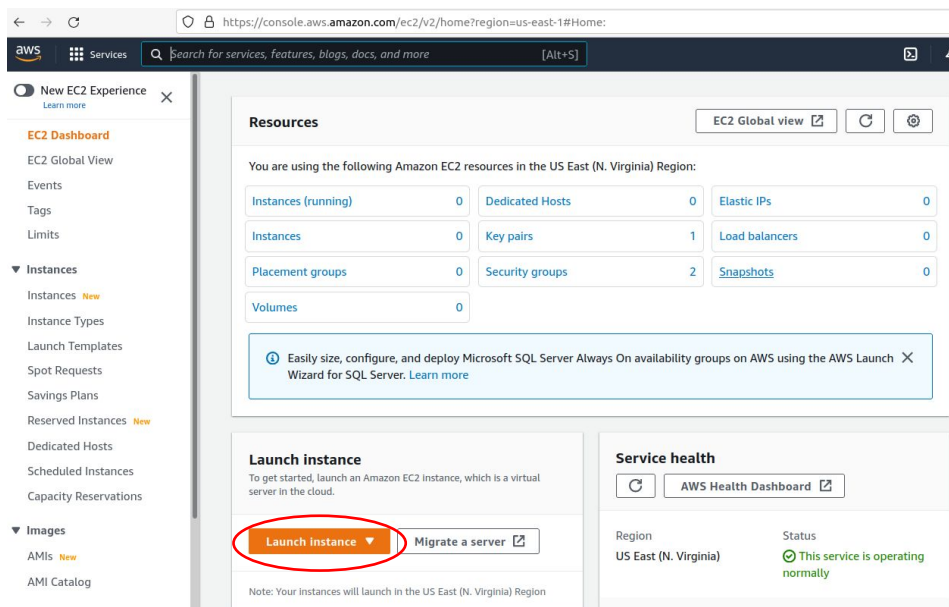
# Acesso ao serviço AWS EC2

- Inicialize seu ambiente conforme seção “**Cadastro no AWS Academy**” e escolha o serviço AWS Elastic Compute Cloud (EC2);
- Utilize o AWS Management Console para criar uma máquina virtual (chamada de *instância* na nuvem);



# Criando uma máquina virtual no AWS EC2

- Etapas:
  - Acesse **Launch instance**
  - Escolher a **imagem** de origem (Sistema Operacional);
  - Definir a configuração do **hardware** virtual (tipo de instância);
  - Configuração de **rede**;
  - **Armazenamento**;
  - **Tags**;
  - **Grupo de Segurança**;
  - Lançar (escolher **chave**);



# Amazon EC2 – Editando a instância

Adicione o  
nome e tag

Mantenha a imagem  
do Amazon Linux

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia

EC2 > Instances > Launch an instance

## 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  [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

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

Recents Quick Start

Ubuntu

Windows

Red Hat

SUSE Linux

ubuntu

Microsoft

Red Hat

SUSE

[Browse more AMIs](#)  
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type	Free tier eligible
ami-0c7f7528ff583bf9a (64-bit (x86)) / ami-00bf5f1c358708486 (64-bit (Arm))	
Virtualization: hvm ENA enabled: true Root device type: ebs	

### ▼ Summary

Number of Instances [Info](#)

Software Image (AMI)  
Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-0c7f7528ff583bf9a

Virtual server type (Instance type)  
t2.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, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel [Launch instance](#)

# Amazon EC2 – Gerando o par de chaves

▼ **Instance type** [Info](#)

Instance type

**t2.micro** Free tier eligible

Family: t2 1 vCPU 1 GiB Memory  
On-Demand Linux pricing: 0.0116 USD per Hour  
On-Demand Windows pricing: 0.0162 USD per Hour

[Compare instance types](#)

▼ **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](#)

**Create key pair** ×

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. 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](#)

Key pair name

Enter key pair name

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 (Not supported for Windows instances)

Private key file format

☒ .pem  
For use with OpenSSH

☐ .ppk  
For use with PuTTY

[Cancel](#) [Create key pair](#)

1. Crie um par de chaves

2. Entre com um nome para a chave

3. Salve o arquivo .pem e guarde em um local seguro.

Obs.: Não será possível gerar este arquivo novamente.

# Amazon EC2 – Configurando o *security group*

▼ Network settings [Get guidance](#)

Edit

Network [Info](#)

vpc-0739b5aa48ba0ffc5

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

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-4' 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.

×

# Amazon EC2 – *script* de inicialização

▼ **Configure storage** [Info](#) Advanced

1x 8 GiB gp2 Root volume

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

Add new volume

0 x File systems Edit

► **Advanced details** [Info](#)

1. Expanda as opções de detalhes avançados

Metadata response hop limit [Info](#)

Select

Allow tags in metadata [Info](#)

Select

**User data** [Info](#) 2. Adicione o seguinte script

```
#!/bin/bash
sudo apt update
sudo apt upgrade -y
sudo apt install apache2 -y
echo "<h1>Oi VM $(hostname -f) !!!</h1>" > /var/www/html/index.html
```

☐ User data has already been base64 encoded

# Amazon EC2 – Lançando a instância

**▼ Summary**

Number of Instances [Info](#)

Software Image (AMI)  
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-0cff7528ff583bf9a

Virtual server type (Instance type)  
t2.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, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

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

**Success**  
Successfully initiated launch of Instance (i-09ac6a6ad68e4116d)  
[Launch log](#)

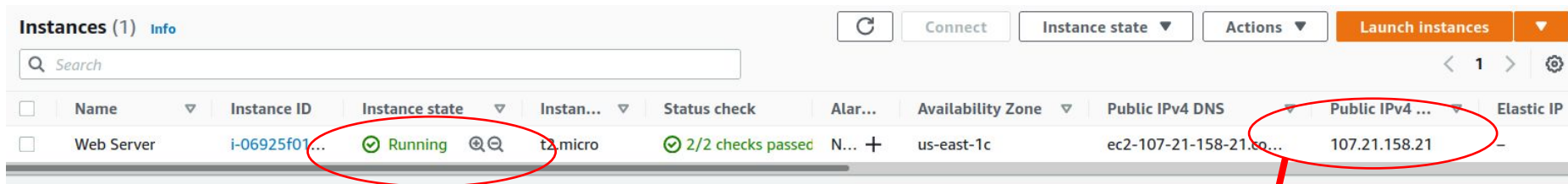
**Next Steps**  
**Get notified of estimated charges**  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)  
**How to connect to your instance**  
Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use  
Click [View Instances](#) to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out [how to connect to your instance](#)  
[View more resources to get you started](#)

[View all instances](#)

Instances (1) <a href="#">Info</a>										
<input type="text" value="Search"/>										
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	-	i-09ac6a6ad68e4116d	Running	t2.micro	Initializing	No alarms +	us-east-1b	ec2-100-24-37-31.com...	100.24.37.31	-



# Amazon EC2 – Instância Lançada



	Name	Instance ID	Instance state	Instan...	Status check	Alar...	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	Web Server	i-06925f01...	✓ Running	t2.micro	✓ 2/2 checks passed	N... +	us-east-1c	ec2-107-21-158-21.ec...	107.21.158.21	-

Verifique se sua instância lançada está no estado de execução. Se sim, vamos acessá-la!

Com a chave de acesso iremos acessar o terminal do servidor via SSH e HTTP

# Amazon EC2 – Acesso ao Servidor Web

- Com o endereço IPv4 da instância, acesse o endereço:  
[http://IPv4\\_DA\\_SUA\\_INSTÂNCIA](http://IPv4_DA_SUA_INSTÂNCIA)
  - Obs.: caso não informe o acesso via protocolo HTTP, por padrão, seu navegador irá adicionar o protocolo HTTPS.



**Oi VM ip-172-31-25-6.ec2.internal !!!**