

AWS AMAZON

A continuación se va a explicar los pasos necesarios para crear una instancia AWS Amazon para la instalación de nuestro servidor Jenkins.

En este caso hemos creado nuestra máquina en AWS EDUCATE pero se puede crear con una cuenta en estas dos páginas:

- <https://aws.amazon.com/es/>
- <https://www.awseducate.com/>

Pasos

- Crear instancia:
Launch Instance - Launch Instance

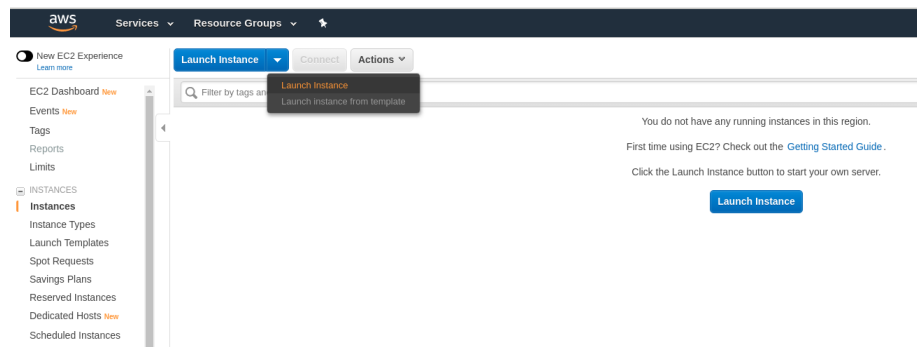


Figure 1:

- Elegir máquina con el sistema operativo que queramos:
Community AMMIs - Fedora-Cloud-Base-29-20190510.0.x86_64-hvm-us-east-1-standard-0 (ami-0519a17d6f4968e64)

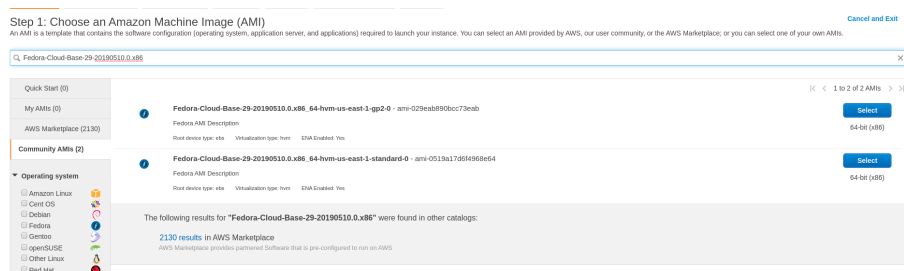


Figure 2:

El ejemplo es creado con una instancia de Fedora29

- Elegir par de claves para conectarnos por SSH a la instancia:

Select an existing key pair or create a new key pair

X

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

jenkins-keys

☒ I acknowledge that I have access to the selected private key file (jenkins-keys.pem), and that without this file, I won't be able to log into my instance.

Cancel


Launch Instances

Figure 3:


Si no se tiene, ir al menú principal y elegir el apartado de crear nuevo par de claves para usarlas en este paso.

- Los siguientes pasos será darle a continuar. Cuando llegamos al **Step 7** podemos modificar algunos detalles de la instancia. En este caso, crearemos un `security group` propio para Jenkins con de momento solo el puerto SSH 22 abierto:

Step 7: Review Instance Launch


Improve your instances' security. Your security group, Jenkins, is open to the world.
 Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.
 You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details


Fedora-Cloud-Base-29-20190510.0.x86_64-hvm-us-east-1-standard-0 - ami-0519a17d6f4968e54
 Fedora AMI Description
 Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups

Security group name	Jenkins
Description	Jenkins

Type ⁽ⁱ⁾	Protocol ⁽ⁱ⁾	Port Range ⁽ⁱ⁾	Source ⁽ⁱ⁾	Description ⁽ⁱ⁾
SSH	TCP	22	0.0.0.0/0	ssh

Instance Details

Storage

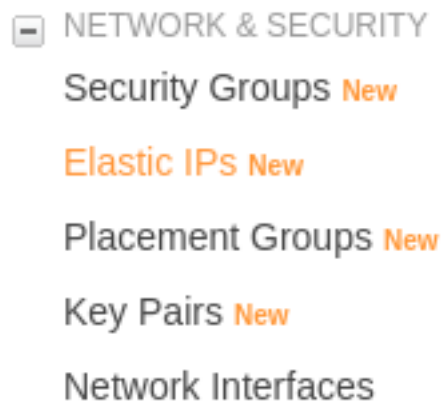
Taags

- Para finalizar, daremos a `launch instance` y ya estará creada.

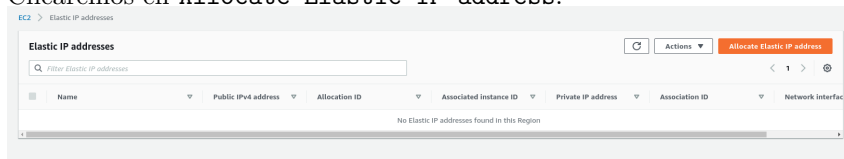
Creación IP estática

Éste es un paso de pago en Amazon. No obstante, crearemos esta IP estática para que nuestra máquina siempre tenga la misma IP. Con ésta nos permitirá que, aunque apaguemos nuestra máquina, al encenderla seguirá con la misma IP y no se cambiará por otra:

- En el menú principal iremos a:
Network & Security - Elastic IPs



- Clicaremos en Allocate Elastic IP address:



- A continuación elegiremos la opción Amazon's pool of IPv4 addresses para que nos pueda dar una IP reservada y única para nuestra máquina:

EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address

Allocate an Elastic IP address by selecting the public IPv4 address pool from which the public IP address is to be allocated. Elastic IP addresses incur charges if they are not associated with a running instance or a network interface that is attached to a running instance. [Learn more](#)

Elastic IP address settings

Public IPv4 address pool
Public IP addresses are allocated from Amazon's pool of public IP addresses, from a pool that you own and bring to your account, or from a pool that you own and continue to advertise.

- ☒ **Amazon's pool of IPv4 addresses**
- ☐ Public IPv4 address that you bring to your AWS account(option disabled because no pools found) [Learn more](#)
- ☐ Customer owned pool of IPv4 addresses(option disabled because no customer owned pools found) [Learn more](#)

Cancel **Allocate**

- Ahora nos aparece una IP pública para nosotros. Lo que haremos ahora será asociarla a nuestra instancia creada para Jenkins:

Seleccionamos la IP - Actions - Associate Elastic IP address

Elastic IP address allocated.
Elastic IP address 18.209.188.35 [Associate this Elastic IP address](#) ✕

EC2 > Elastic IP addresses

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 18.209.188.35 Clear filters

<input checked="" type="checkbox"/>	Name	Public IPv4 address	Allocation ID	Associated instance ID	Private IP address	Association ID	Network interface
<input checked="" type="checkbox"/>		18.209.188.35	epalloc-0bb14aaa11f419c05	-	-	-	-

EC2 > Elastic IP addresses

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 18.209.188.35 Clear filters

<input checked="" type="checkbox"/>	Name	Public IPv4 address	Allocation ID	Associated instance ID	Private IP address	Association ID	Network interface
<input checked="" type="checkbox"/>		18.209.188.35	epalloc-0bb14aaa11f419c05	-	-	-	-

Actions

- Allocate Elastic IP address
- View details
- Release Elastic IP address
- Associate Elastic IP address
- Disassociate Elastic IP address

- Seleccionamos **Instance** y en el buscador elegimos la que tendremos creada. En el otro buscador de **Private IP address** en cuanto entremos entro nos saldrá directa la opción de la IP privada que tiene nuestra instancia. Y clicamos en **Associate**:

EC2 > Elastic IP addresses > Associate Elastic IP address

Associate Elastic IP address

Choose the Instance or network interface to associate to this Elastic IP address (18.209.188.35)

Elastic IP address: 18.209.188.35

Resource type
Choose the type of resource with which to associate the Elastic IP address.

☒ Instance

☐ Network interface

⚠ If you associate an Elastic IP address to an instance that already has an Elastic IP address associated, this previously associated Elastic IP address will be disassociated but still allocated to your account. [Learn more.](#)

Instance

Private IP address
The private IP address with which to associate the Elastic IP address.

Reassociation
Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

☐ Allow this Elastic IP address to be reassociated

- Ya tendremos la IP elástica asociada a nuestra máquina:

ⓘ Elastic IP address associated.
Elastic IP address: 18.209.188.35

EC2 > Elastic IP addresses

Elastic IP addresses (1/1)

<input checked="" type="checkbox"/>	Name	Public IPv4 address	Allocation ID	Associated Instance ID	Private IP address	Association ID	Network interface
<input checked="" type="checkbox"/>		18.209.188.35	epalloc-0b014aa11f419c65	i-05dd6f2419d9c20c1	172.31.92.65	epassoc-021b00846a3c024198	800976653507

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
<input type="checkbox"/>	Jenkins CXC	i-05dd6f2419d9c20c1	t2.micro	us-east-1b	running	Initializing	None	ec2-18-209-188-35.co...	18.209.188.35	-	jenkins-keys

NOTA: Cuando instalemos Jenkins en nuestra instancia tendremos que abrir el *puerto por defecto 8080* en el security group y si luego cambiamos de puerto (en nuestro caso será el *9090*), tendremos que indicar el puerto que escuchará para Jenkins:

EC2 > Security Groups > sg-05647bc3abb01148fd - Jenkins > Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Type

Custom TCP

Protocol

TCP

Port range

9090

Source

Custom

0.0.0.0/0

Description - optional

puerto jenkins

Type

SSH

Protocol

TCP

Port range

22

Source

Custom

0.0.0.0/0

Description - optional

ssh

Add rule

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