

## 1. Crear una VPC

[VPC](#) > [Your VPCs](#) > Create VPC

### Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

#### VPC settings

##### Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only

☐ VPC and more

##### Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

my-vpc-01

##### IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

##### IPv4 CIDR

10.0.0.0/24

CIDR block size must be between /16 and /28.

##### IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

[VPC](#) > [Your VPCs](#) > Create VPC

#### VPC settings

##### Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only

☐ VPC and more

##### Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

demo-vpc-yennyfergomez

##### IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

##### IPv4 CIDR

10.0.0.0/16

CIDR block size must be between /16 and /28.

##### IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

##### Tenancy [Info](#)

Default

##### VPC encryption control (\$) [Info](#)

Monitor mode provides visibility into encryption status without blocking traffic. Enforce mode prevents unencrypted traffic. [Additional charges apply](#)

You successfully created vpc-0ead71e82eca0ad23 / demo-vpc-yennyfergomez

vpc-0ead71e82eca0ad23 / demo-vpc-yennyfergomez

Actions

Details

VPC ID  
vpc-0ead71e82eca0ad23

DNS resolution  
Enabled

Main network ACL  
acl-021280f6f195b978f

IPv6 CIDR (Network border group)  
-

Encryption control ID  
-

State  
Available

Tenancy  
default

Default VPC  
No

Network Address Usage metrics  
Disabled

Encryption control mode  
-

Block Public Access  
Off

DHCP option set  
dopt-0dd7028e215a4421b

IPv4 CIDR  
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups  
Failed to load rule groups

DNS hostnames  
Disabled

Main route table  
rtb-0fdaa7d26b8b14db6

IPv6 pool  
-

Owner ID  
654654478122

Resource map

CIDRs

Flow logs

Tags

Integrations

You successfully created vpc-0ead71e82eca0ad23 / demo-vpc-yennyfergomez

DNS resolution  
Enabled

Main network ACL  
acl-021280f6f195b978f

IPv6 CIDR (Network border group)  
-

Encryption control ID  
-

Tenancy  
default

Default VPC  
No

Network Address Usage metrics  
Disabled

Encryption control mode  
-

DHCP option set  
dopt-0dd7028e215a4421b

IPv4 CIDR  
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups  
Failed to load rule groups

Main route table  
rtb-0fdaa7d26b8b14db6

IPv6 pool  
-

Owner ID  
654654478122

Resource map

CIDRs

Flow logs

Tags

Integrations

Resource map

VPC  
Your AWS virtual network  
demo-vpc-yennyfergomez

Subnets (0)  
Subnets within this VPC

Route tables (1)  
Route network traffic to resources  
rtb-0fdaa7d26b8b14db6

Show all d

## 2. : Crear Subnet Pública

You have successfully created 1 subnet: subnet-0efaf4a6ed032598d

Subnets (1)

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

Subnet ID : subnet-0efaf4a6ed032598d

Clear filters

	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
	public-subnet-1-yennyfergomez	subnet-0efaf4a6ed032598d	Available	vpc-0ead71e82eca0ad23   dem...	Off	10.0.1.0/24

### 3. : Crear internet Gateway

VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)  
An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

**Name tag**  
Creates a tag with a key of 'Name' and a value that you specify.

Tags - *optional*

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Value - *optional*

You can add 49 more tags.

✔ The following internet gateway was created: igw-0cb467a8d90b8a143 - demo-igw-yennyfergomez. You can now attach to a VPC to enable the VPC to communicate with the internet.

#### igw-0cb467a8d90b8a143 / demo-igw-yennyfergomez [Actions](#)

Details [Info](#)

Internet gateway ID  
 igw-0cb467a8d90b8a143

State  
 Detached

VPC ID  
-

Owner  
 654654478122

Tags (1)

Key

Value

Name

demo-igw-yennyfergomez

### 4. Configurar Route Table

VPC > Internet gateways > Attach to VPC (igw-0cb467a8d90b8a143)

#### Attach to VPC (igw-0cb467a8d90b8a143) [Info](#)

##### VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

##### Available VPCs

Attach the internet gateway to this VPC.

##### ▶ AWS Command Line Interface command

## Create route table [Info](#)

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

### Route table settings

#### Name - *optional*

Create a tag with a key of 'Name' and a value that you specify.

public-rt-yennyfergomez

#### VPC

The VPC to use for this route table.

vpc-0ead71e82eca0ad23 (demo-vpc-yennyfergomez)

### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

#### Key

Q Name



#### Value - *optional*

Q public-rt-yennyfergomez



Remove

Add new tag

You can add 49 more tags.

b-0f68d1d372ecf9a1c

Route table rtb-0f68d1d372ecf9a1c | public-rt-yennyfergomez was created successfully.

## rtb-0f68d1d372ecf9a1c / public-rt-yennyfergomez

Actions

### Details [Info](#)

#### Route table ID

rtb-0f68d1d372ecf9a1c

#### VPC

vpc-0ead71e82eca0ad23 | demo-vpc-yennyfergomez

#### Main

No

#### Owner ID

654654478122

#### Explicit subnet associations

-

#### Edge associations

-

### Routes

### Subnet associations

### Edge associations

### Route propagation

### Tags

### Routes (1)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated	Route Origin
10.0.0.0/16	local	Active	No	Create Route Table

## 5. Crear Subnet Privada

rtb-0f68d1d372ecf9a1c

Updated routes for rtb-0f68d1d372ecf9a1c / public-rt-yennyfergomez successfully

Details

## rtb-0f68d1d372ecf9a1c / public-rt-yennyfergomez

Actions

### Details [Info](#)

#### Route table ID

rtb-0f68d1d372ecf9a1c

#### VPC

vpc-0ead71e82eca0ad23 | demo-vpc-yennyfergomez

#### Main

No

#### Owner ID

654654478122

#### Explicit subnet associations

-

#### Edge associations

-

### Routes

### Subnet associations

### Edge associations

### Route propagation

### Tags

### Routes (2)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-0cb467a8d90b8a143	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

DNS resolution  
Enabled

Main network ACL  
acl-021280f6f195b978f

IPv6 CIDR (Network border group)  
-

Encryption control ID  
-

Tenancy  
default

Default VPC  
No

Network Address Usage metrics  
Disabled

Encryption control mode  
-

DHCP option set  
dopt-0dd7028e215a4421b

IPv4 CIDR  
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups  
Failed to load rule groups

Main route table  
rtb-0fdaa7d26b8b14db6

IPv6 pool  
-

Owner ID  
654654478122

Resource map

CIDRs

Flow logs

Tags

Integrations

Resource map

Info

Show all details

VPC

Your AWS virtual network

demo-vpc-yennyfergomez

Subnets (1)

Subnets within this VPC

us-east-1c

public-subnet-1-yennyfergomez

Route tables (2)

Route network traffic to resources

rtb-0fdaa7d26b8b14db6

public-rt-yennyfergomez

VPC

VPC ID

Create subnets in this VPC.

vpc-0ead71e82eca0ad23 (demo-vpc-yennyfergomez)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

private-subnet-1-yennyfergomez

The name can be up to 256 characters long.

Availability Zone

Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

United States (N. Virginia) / use1-az4 (us-east-1c)

## 6. Crear Security Group

Security group (sg-08b3d7685d46e750a | demo-sg-yennyfergomez) was created successfully

Details

sg-08b3d7685d46e750a - demo-sg-yennyfergomez

Actions

Details

Security group name

demo-sg-yennyfergomez

Security group ID

sg-08b3d7685d46e750a

Description

security

VPC ID

vpc-0ead71e82eca0ad23

Owner

654654478122

Inbound rules count

2 Permission entries

Outbound rules count

0 Permission entries

Inbound rules

Outbound rules

Sharing

VPC associations

Related resources - new

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Search

	Name	Security group rule ID	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-017f1026a841ebafd	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-08d4be6861250e201	IPv4	HTTP	TCP	80

# 7. Lanzar EC2 con User Data

Instance summary for i-0e7101fbe8423c981 ( demo-ec2-yennyfergomez) Info

Updated less than a minute ago

Connect

Instance state ▼

Actions ▼

<div>Instance ID</div> <div>i-0e7101fbe8423c981</div>	<div>Public IPv4 address</div> <div>18.208.192.172   open address ↗</div>	<div>Private IPv4 addresses</div> <div>10.0.1.82</div>
<div>IPv6 address</div> <div>—</div>	<div>Instance state</div> <div>Running</div>	<div>Public DNS</div> <div>—</div>
<div>Hostname type</div> <div>IP name: ip-10-0-1-82.ec2.internal</div>	<div>Private IP DNS name (IPv4 only)</div> <div>ip-10-0-1-82.ec2.internal</div>	<div>Elastic IP addresses</div> <div>—</div>
<div>Answer private resource DNS name</div> <div>—</div>	<div>Instance type</div> <div>t3.micro</div>	<div>AWS Compute Optimizer finding</div> <div>⚠ User: arn:aws:iam::654654478122:user/students/andreas3578@hotmail.com is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action <a href="#">Retry</a></div>
<div>Auto-assigned IP address</div> <div>18.208.192.172 [Public IP]</div>	<div>VPC ID</div> <div>vpc-0ead71e82eca0ad23 (demo-vpc-yennyfergomez) ↗</div>	<div>Auto Scaling Group name</div> <div>—</div>
<div>IAM role</div> <div>—</div>	<div>Subnet ID</div> <div>subnet-0efaf4a6ed032598d ( public-subnet-1-yennyfergomez) ↗</div>	

## Demo AWS Networking 🚀

VPC, Subnet, SG, Route 53 y CloudFront

Servidor: ip-10-0-1-82.ec2.internal