



51°

Lab - AWS re/Start

Configuración de una Amazon VPC



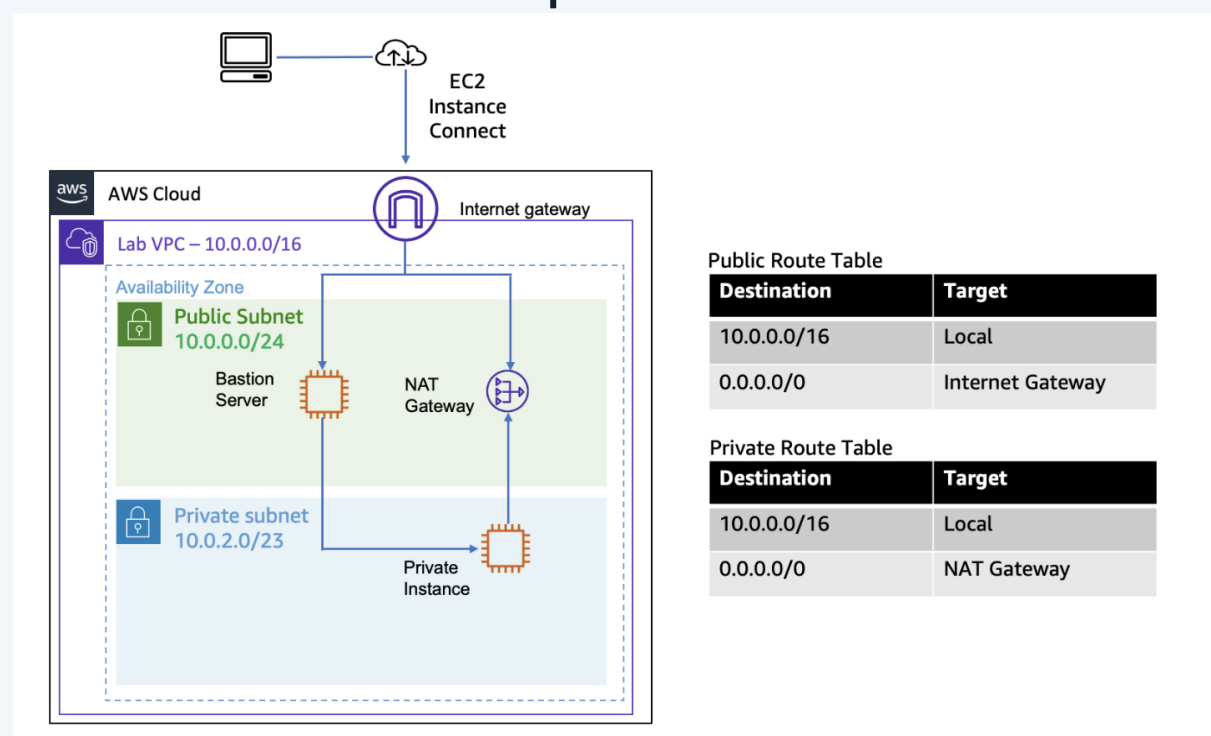
Tarea 01



Interactuando con Virtual Private Cloud

Los objetivos son:

- Cree una VPC con una subred privada y una pública, una puerta de enlace a Internet (IGW) y una puerta de enlace NAT.
- Configure las tablas de rutas asociadas a las subredes para el tráfico local y con destino a Internet utilizando una puerta de enlace a Internet y una puerta de enlace NAT.
- Poner en marcha un servidor bastión en una subred pública.
- Utilizar un servidor bastión para iniciar sesión en una instancia de una subred privada.



Tarea 01



Empezamos creando una 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.

Lab VPC

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

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	Value - <i>optional</i>	
<input type="text" value="Name"/>	<input type="text" value="Lab VPC"/>	<input type="button" value="Remove tag"/>

DNS settings

☒ Enable DNS resolution [Info](#)

☒ Enable DNS hostnames [Info](#)

Luego, creamos las subred pública:

vpc-00bb30356b21f9d79 (Lab VPC)

Associated VPC CIDRs

IPv4 CIDRs	10.0.0.0/16
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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.

Public Subnet

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.

US West (Oregon) / us-west-2a

IPv4 VPC CIDR block [Info](#)
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.0.0/24 256 IPs

▼ Tags - *optional*

Key	Value - <i>optional</i>	
<input type="text" value="Name"/>	<input type="text" value="Public Subnet"/>	<input type="button" value="Remove"/>

[VPC](#) > [Subnets](#) > [subnet-0d9dbb6e82e84bf7d](#) > Edit subnet settings

Edit subnet settings [Info](#)

Subnet

Subnet ID <input type="button" value="🔍"/> subnet-0d9dbb6e82e84bf7d	Name <input type="button" value="🔍"/> Public Subnet
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Auto-assign IP settings [Info](#)

Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.

☒ Enable auto-assign public IPv4 address [Info](#)

☐ Enable auto-assign customer-owned IPv4 address [Info](#)
Option disabled because no customer owned pools found.

Tarea 01



Y a continuación la subred privada:

vpc-00bb30356b21f9d79 (Lab VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs10.0.0.0/16

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

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.

US West (Oregon) / us-west-2a ▼

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16 ▼

IPv4 subnet CIDR block

10.0.2.0/23 512 IPs

< > ^ v

Tags - optional

KeyValue - optional

Q Name X Q Private Subnet X Remove

Creando la puerta de enlace de Internet (IGW)

[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.

Lab IGW

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.

KeyValue - optional

Q Name X Q Lab IGW X Remove

Add new tag

You can add 49 more tags.

[VPC](#) > [Internet gateways](#) > Attach to VPC (igw-0e7008b1c7ae03663)

Attach to VPC (igw-0e7008b1c7ae03663) [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.

Q vpc-00bb30356b21f9d79 X

AWS Command Line Interface command

< SWIPE ≡

Tarea 01



Ahora, procedemos a crear la tabla de enrutamiento para la subred pública, que diriga el tráfico hacia el IGW

[VPC](#) > [Route tables](#) > Create route table

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 Route Table

VPC

The VPC to use for this route table.

vpc-00bb30356b21f9d79 (Lab VPC)

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

Name

Value - *optional*

Public Route Table

Remove

Add new tag

You can add 49 more tags.

Routes			
Routes (2)			
Filter routes			
Destination	Target	Status	Propagated
0.0.0.0/0	igw-0e7008b1c7ae03663	Active	No
10.0.0.0/16	local	Active	No

You have successfully updated subnet associations for rtb-0e04af4dcf664eb7c / Public Route Table.								
Route tables (1/3) Info								
Find resources by attribute or tag								
	Name	Route...	Explicit subnet associations	Edge...	Main	VPC	Owner ID	
<input type="checkbox"/>	Private Route Table	rtb-09e8...	-	-	Yes	vpc-00bb30356b21f9d79 Lab VPC	381492022429	
<input type="checkbox"/>	-	rtb-0081...	-	-	Yes	vpc-010ff40635cd2f7d3	381492022429	
<input checked="" type="checkbox"/>	Public Route Table	rtb-0e04...	subnet-0d9dbb6e82e84bf7d / Public Subnet	-	No	vpc-00bb30356b21f9d79 Lab VPC	381492022429	

Luego, lanzamos el servidor bastión en la subred pública

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-0eb5115914ccc4bc2 (64-bit (x86), uefi-preferred) / ami-0ca6dd60dbe07d5ad (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible

Description
Amazon Linux 2023 AMI 2023.3.20240304.0 x86_64 HVM kernel-6.1

Architecture: 64-bit (x86) Boot mode: uefi-preferred AMI ID: ami-0eb5115914ccc4bc2 Verified provider

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

Instance type
t3.micro
Family: t3 2 vCPU 1 GiB Memory Current generation: true
On-Demand SUSE base pricing: 0.0104 USD per Hour
On-Demand Windows base pricing: 0.0196 USD per Hour
On-Demand RHEL base pricing: 0.0704 USD per Hour
On-Demand Linux base pricing: 0.0104 USD per Hour
All generations
[Compare instance types](#)
Additional costs apply for AMIs with pre-installed software

▼ 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*
Proceed without a key pair (Not recommended) Default value Create new key pair

VPC - *required* [Info](#)

vpc-00bb30356b21f9d79 (Lab VPC)
10.0.0.0/16

Subnet [Info](#)

subnet-0d9dbb6e82e84bf7d Public Subnet
VPC: vpc-00bb30356b21f9d79 Owner: 381492022429
Availability Zone: us-west-2a IP addresses available: 251 CIDR: 10.0.0.0/24
[Create new subnet](#)

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

Security group name - *required*

Bastion Security Group

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/!#,@[]+=&:{}|~*

Description - *required* [Info](#)

Bastion Security Group

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type [Info](#)

ssh

Protocol [Info](#)

TCP

Port range [Info](#)

22

Source type [Info](#)

Anywhere

Source [Info](#)

Description - *optional* [Info](#)

e.g. SSH for admin desktop
