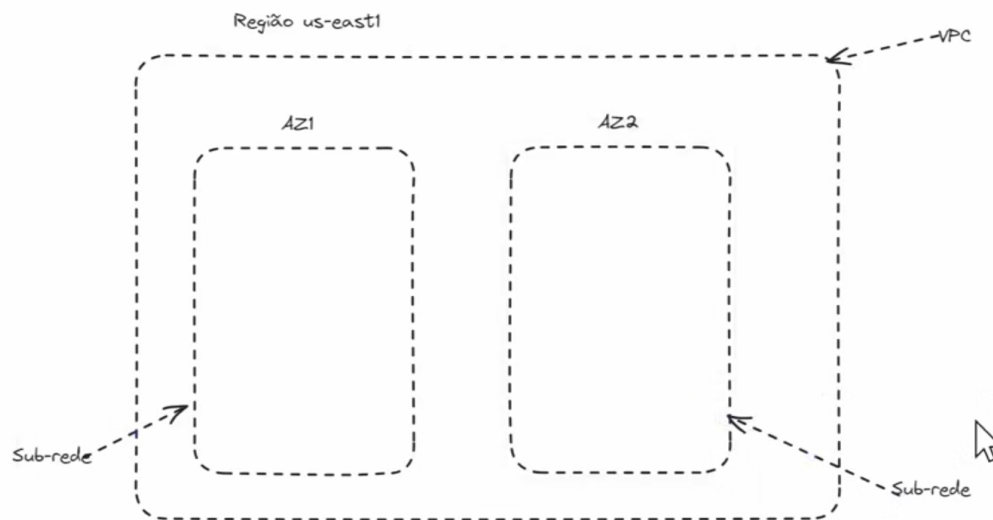


DevOps Módulo 13 - IT Talent

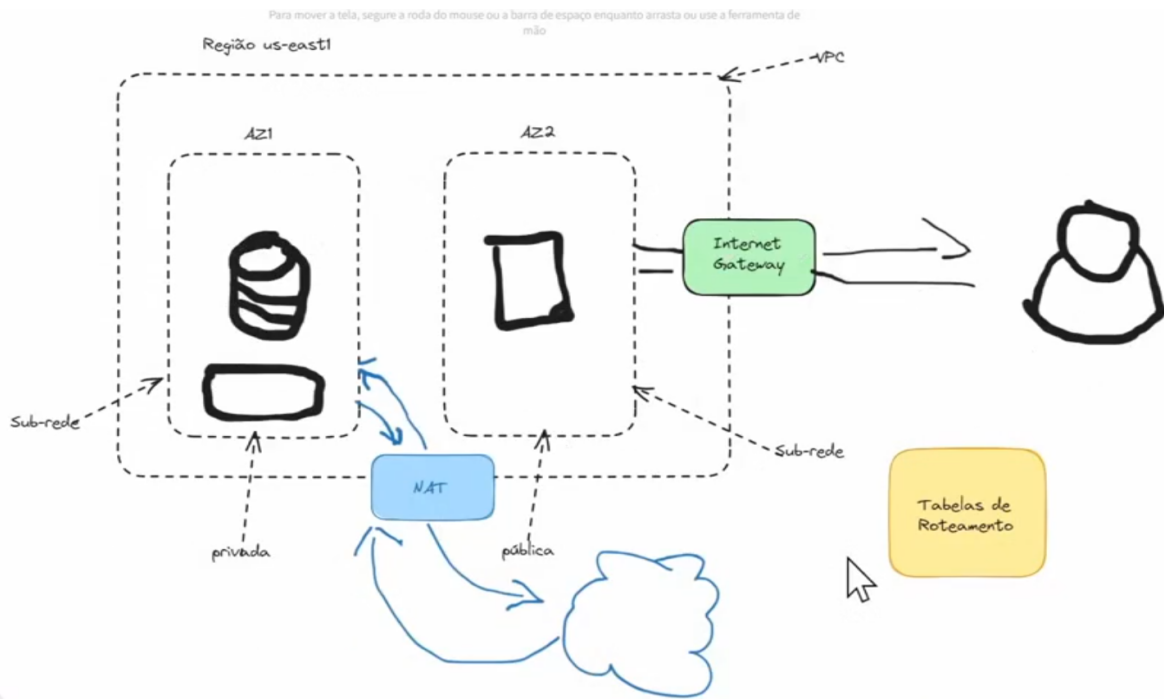
Escrito por: **Gabriel Oliveira dos Santos**

Github: <https://github.com/Hypothesis>

Virtual Private Cloud (VPC)



Pode ser considerada uma rede. Na AWS, já vem um VPC padrão, porém não é recomendado usar-lo, mas sim configurar uma nova, por questões de segurança e privacidade. Uma VPC, de acordo com a imagem acima, é o cloud privado de uma Região, e seja Região temos as zonas de estabilidade, que são as Sub-redes, e por padrão as VPCs de uma região não é igual a outra.



Essa seria a configuração da arquitetura da nossa aplicação com acesso a internet. no AZ2 temos o Frontend que é público, a internet tem acesso a ele, e os usuários também, para questões de segurança é preciso um gateway, que é uma porta de entrada para o usuário com o front, e nosso front com a internet.

No caso da nossa rede privada, o AZ1 (que carrega nosso backend), temos que ter acesso a internet, pois muita dessas aplicações backend são usados em um SO, e esse SO tem que atualizar regularmente por questões de segurança, porém como é uma sub-rede privada, não usaremos um gateway, porém um NAT (que traduz nosso IP externos e internos, que tornam nosso IP interno não rastreável mas o externo sim, assim podendo ter acesso a internet de forma segura).

Criação de VPC e Sub-rede Pública e Privada

aws Services [Alt+S] N. Virginia Gabriel Oliveira

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.

VPC-IT-TALENT

IPv4 CIDR block Info

☒ IPv4 CIDR manual input ☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/27

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

Dedicated

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e agora, depois de criarmos um VPC, vamos criar uma Sub-Rede.

aws Services Search [Alt+S] N. Virginia Gabriel Oliveira

VPC ID
Create subnets in this VPC.
vpc-Oe32e8f3d419db7c6 (VPC-IT-TALENT)

Associated VPC CIDRs
IPv4 CIDRs
10.0.0.0/27

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.
SUB-REDE-PRIVADA
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 East (N. Virginia) / us-east-1a

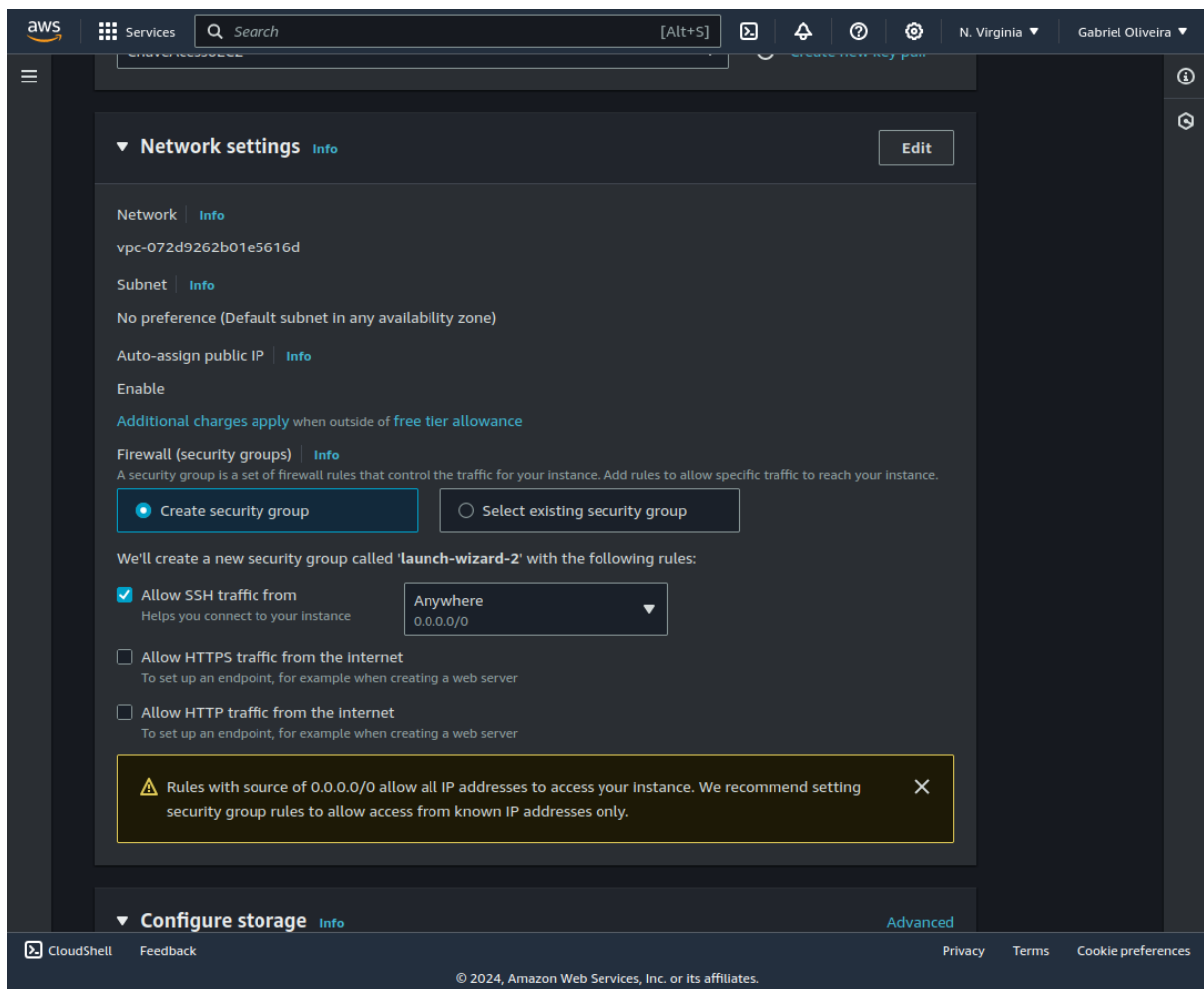
IPv4 VPC CIDR block [Info](#)
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.
10.0.0.0/27

IPv4 subnet CIDR block
10.0.0.0/28 16 IPs

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na nossa sub-rede, temos o ipv4 VPC (que é nosso IP Público), ja nosso ipv4 da sub-rede (temos o nosso IP privado da nossa sub-rede).

Criando Instâncias nas Sub-redes



Vamos criar uma instancia EC2 com sub-redes. Na parte de Network Settings , temos a configuração do VPC padrão, porém queremos escolher a sub-rede privada, com o nosso novo VPC.

aws

Services

Search

[Alt+S]

N. Virginia

Gabriel Oliveira

Network settings

Info

VPC - required

Info

vpc-072d9262b01e5616d

(default)

172.31.0.0/16

Q |

vpc-072d9262b01e5616d

(default)

172.31.0.0/16

vpc-0e32e8f3d419db7c6 (VPC-IT-TALENT)

10.0.0.0/27

Additional charges apply when outside of free tier allowance

vpc-0e32e8f3d419db7c6 (VPC-IT-TALENT)

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

launch-wizard-2

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

launch-wizard-2 created 2024-06-11T15:53:20.901Z

Inbound Security Group Rules

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

Remove

Type

Info

ssh

Protocol

Info

TCP

Port range

Info

22

Source type

Info

Source

Info

Description - optional

Info

CloudShell

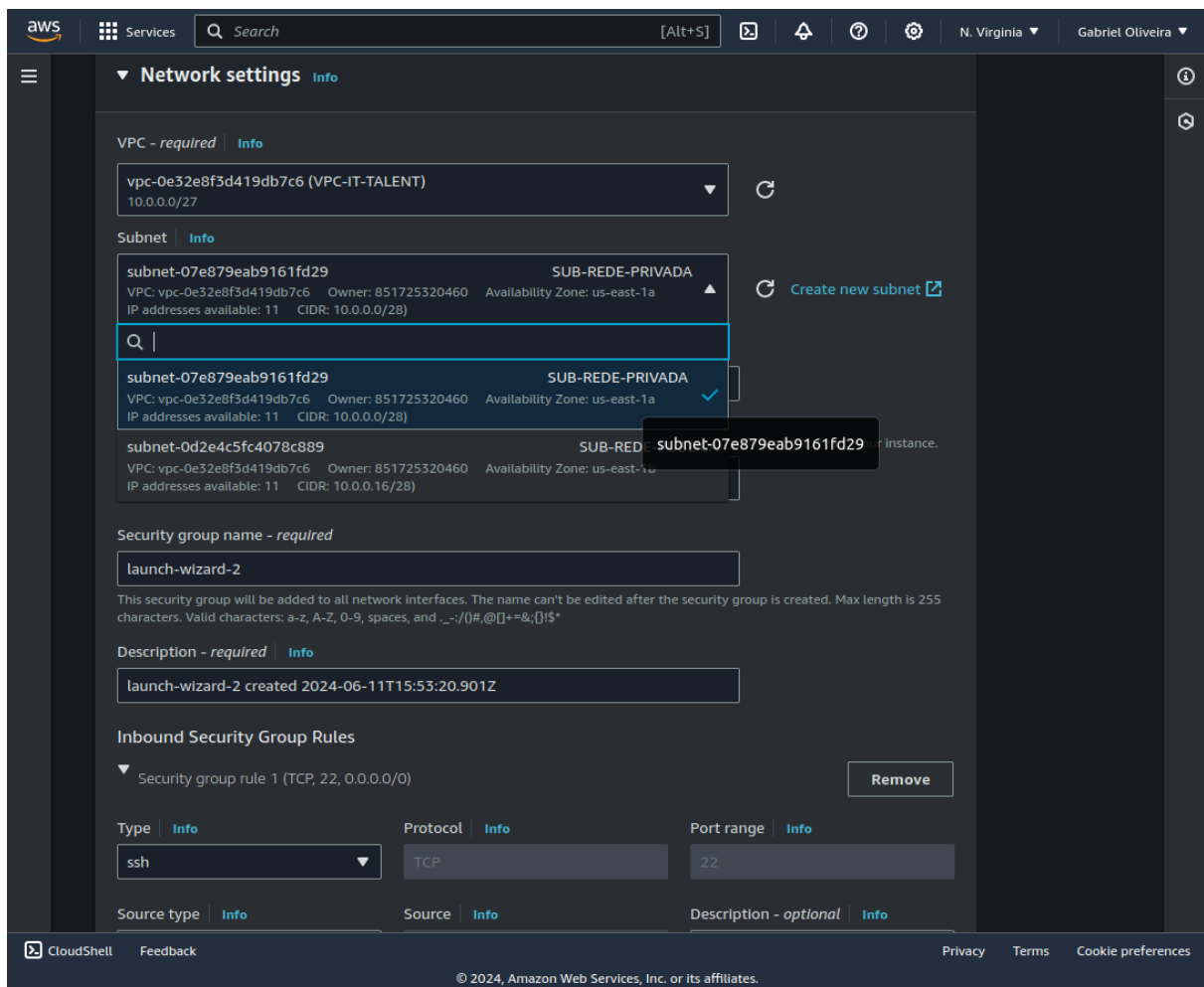
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Escolhemos o nosso vpc-it-talent, que nos criamos agora, com a nossa sub-rede privada, pois é o EC2 do nosso backend. Grupos de segurança são como grupos que se comportam como firewall, impedindo que algumas coisas entrem e saiam, mas não vamos usar-los agora.

aws Services Search [Alt+S] N. Virginia Gabriel Oliveira

10.0.0.0/27

Subnet [Info](#)

subnet-07e879eab9161fd29 SUB-REDE-PRIVADA
VPC: vpc-0e32e8f3d419db7c6 Owner: 851725320460 Availability Zone: us-east-1a
IP addresses available: 11 CIDR: 10.0.0.0/28

Create new subnet

Auto-assign public IP [Info](#)

Disable

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*

aula-vpc

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](#)

launch-wizard-2 created 2024-06-11T15:53:20.901Z

Inbound Security Group Rules

Security group rule 1 (All, All, 0.0.0.0/0)

Remove

Type [Info](#) Protocol [Info](#) Port range [Info](#)

All traffic All All

Source type [Info](#) Source [Info](#) Description - *optional* [Info](#)

Anywhere Add CIDR, prefix list or security group ID e.g. SSH for admin desktop

0.0.0.0/0

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting

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Criamos um ec2-public e um ec2-private e escolhemos o nosso VPC

aws

Services

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Select

Create new key pair

▼ Network settings Info

VPC - required Info

vpc-0e1e6c2bb3b943970172.31.0.0/16(default)↕

vpc-0e1e6c2bb3b943970172.31.0.0/16(default)✓↕Create new subnet

vpc-0f85013ee7ebc8c7f (VPC-IT-TALENT)10.0.0.0/26vpc-0f85013ee7ebc8c7f (VPC-IT-TALENT)

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

Security group name - required

launch-wizard-1

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

launch-wizard-1 created 2024-06-11T17:19:03.896Z

Inbound Security Group Rules

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

Remove

Type Info

Protocol Info

Port range Info

CloudShell

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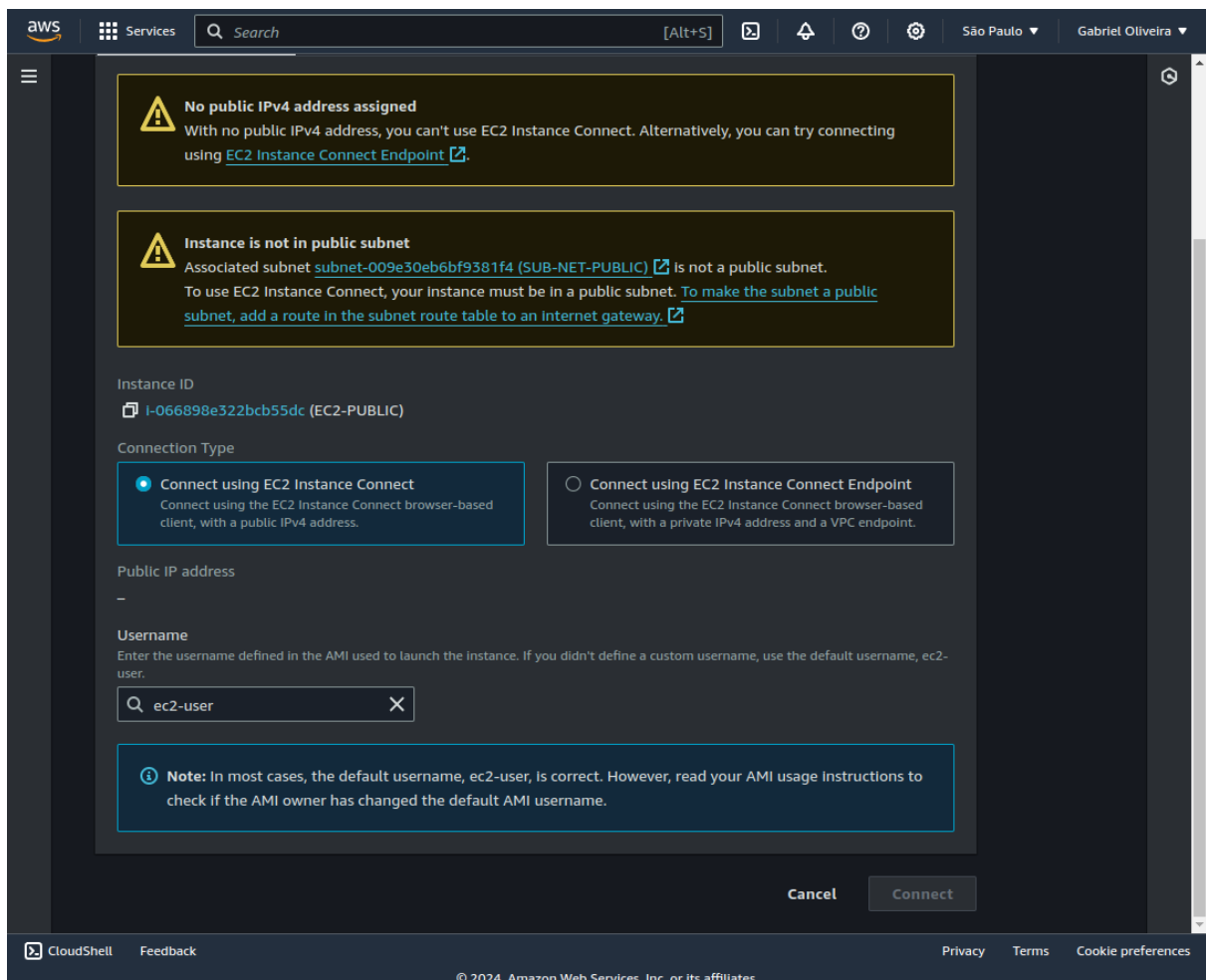
Cookie preferences

The screenshot displays the AWS Management Console interface. On the left, a navigation sidebar lists various services including EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, and Key Pairs. The main content area is titled 'Instances (1/2)' and shows a table of EC2 instances. Two instances are listed: 'EC2-PRIVADO' (Instance ID: i-0684a9355e519a98f) and 'EC2-PUBLIC' (Instance ID: i-066898e322bcb55dc). Both are in a 'Running' state. Below the table, the details for instance 'i-0684a9355e519a98f (EC2-PRIVADO)' are shown, including its Instance ID, Public IPv4 address, Private IPv4 addresses, Instance state, and Private IP DNS name.

Name	Instance ID	Instance state	Instance type	Status check
EC2-PRIVADO	i-0684a9355e519a98f	Running	t3.micro	2/2 checks passed
EC2-PUBLIC	i-066898e322bcb55dc	Running	t3.micro	Initializing

i-0684a9355e519a98f (EC2-PRIVADO)		
Details	Status and alarms	Monitoring
Instance summary		
Instance ID i-0684a9355e519a98f (EC2-PRIVADO)	Public IPv4 address -	Private IPv4 addresses 10.0.0.20
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-0-0-20.sa-east-1.compute.internal	Private IP DNS name (IPv4 only) ip-10-0-0-20.sa-east-1.compute.internal	

para conectar, é preciso trocar o grupo de segurança, pois tem que ter acesso ssh



o security group:

aws

Services

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EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

EC2 > Security Groups > sg-0f72afe8d0d24ed94 - AULA-VPC

sg-0f72afe8d0d24ed94 - AULA-VPC

Actions

Details

Security group name

AULA-VPC

Security group ID

sg-0f72afe8d0d24ed94

Description

launch-wizard-1 created 2024-06-11T17:13:48.322Z

VPC ID

vpc-0f85013ee7ebc8c7f

Owner

851725320460

Inbound rules count

1 Permission entry

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Tags

Inbound rules (1)

Manage tags

Edit inbound rules

Search

< 1 > ⚙

Name

Security group rule...

IP version

Type

-

sgr-087dfb3437ff1b223

IPv4

All traffic

CloudShell

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EC2

>

Security Groups

>

sg-0f72afe8d0d24ed94 - AULA-VPC

>

Edit inbound rules

Edit inbound rules

Info

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

Inbound rules

Info

Inbound rule 1

Delete

Security group rule ID

sgr-087dfb3437ff1b223

Type

Info

All traffic

Protocol

Info

All

Port range

Info

All

Source type

Info

Custom

Source

Info

0.0.0.0/0

Description - optional

Info

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your Instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

Preview changes

Save rules

CloudShell

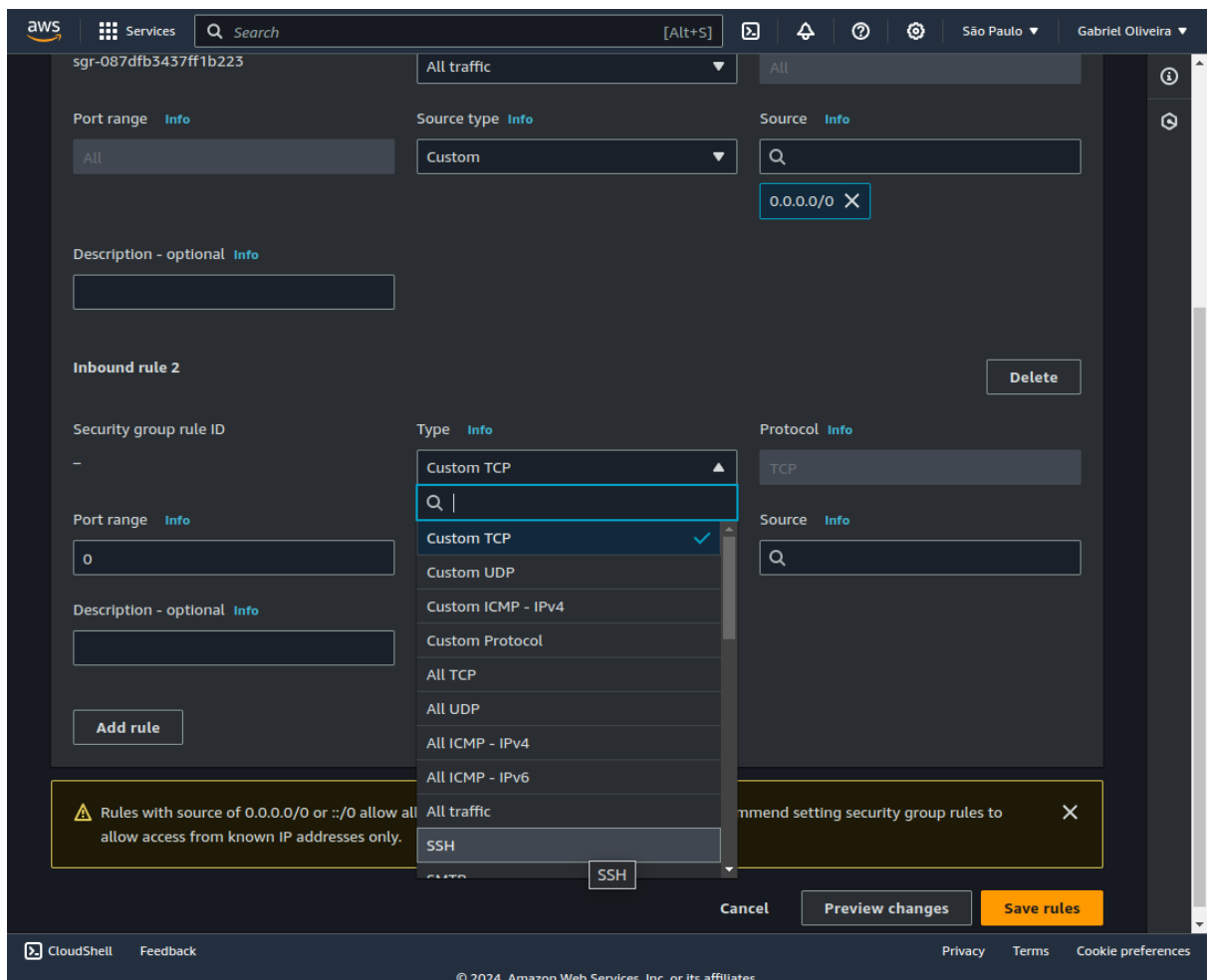
Feedback

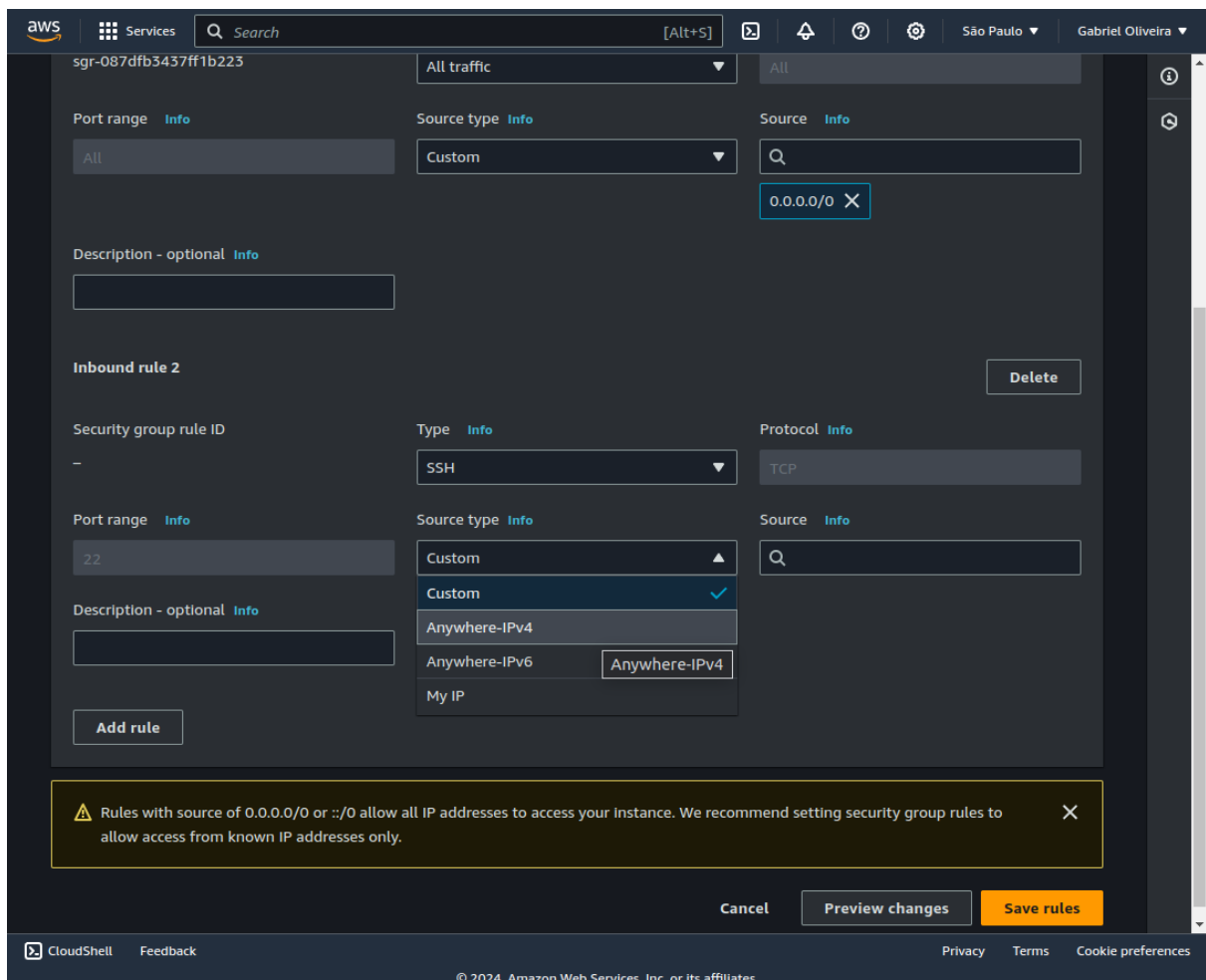
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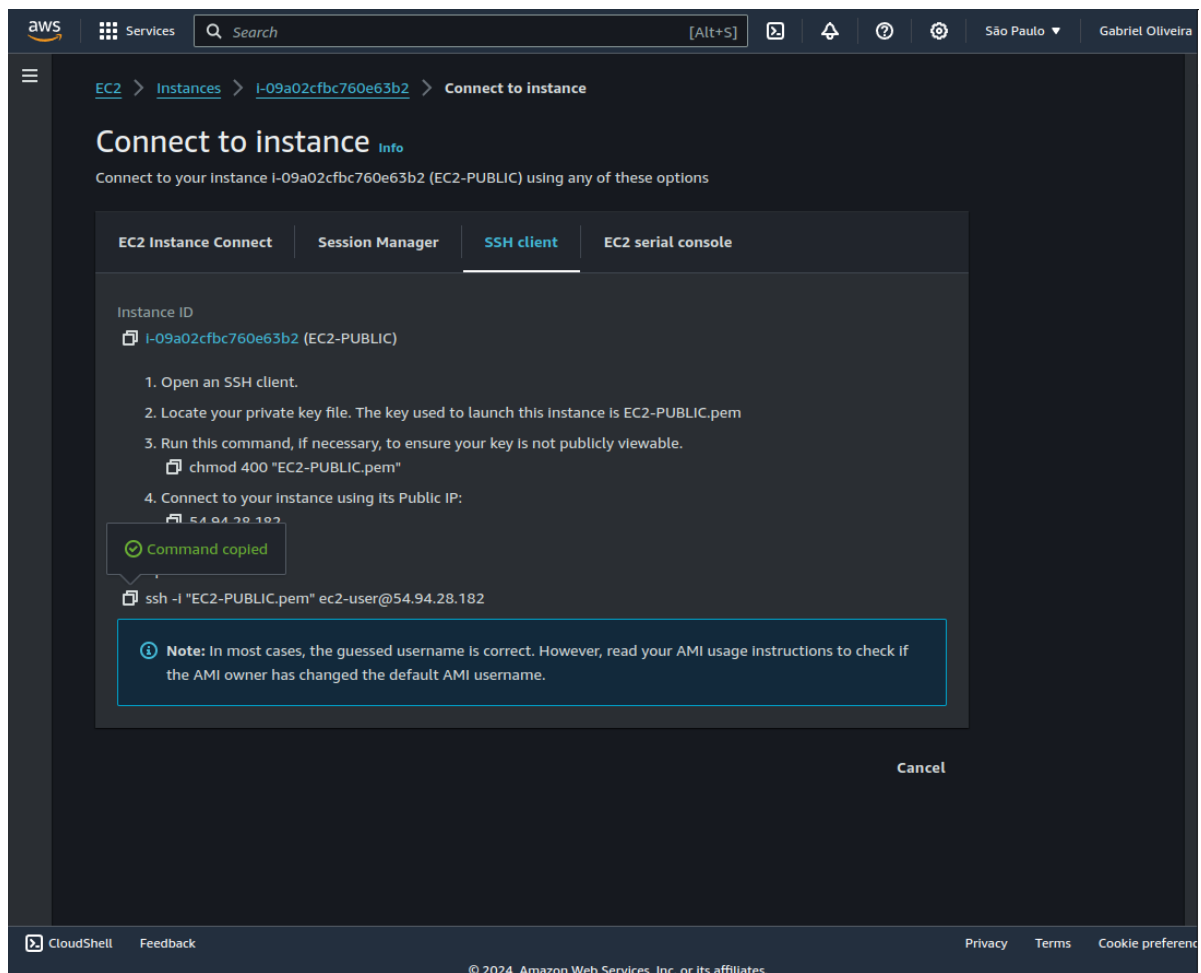
Terms

Cookie preferences





Agora so conectar via SSH:



agora é preciso criar um gateway para a nossa aplicação publica tenha acesso a internet. Isso faz com que a nossa aplicação seja acessavel pela internet.

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VPC dashboard

EC2 Global View

Filter by VPC: Select a VPC

▼ Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways**
- Egress-only Internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

▼ Security

- Network ACLs
- Security groups

▼ DNS firewall

- Rule groups
- Domain lists

CloudShell Feedback

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✓ The following Internet gateway was created: igw-0068270fcda9b6e14 - internet-gateway-aula-vpc. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC

VPC > Internet gateways > igw-0068270fcda9b6e14

igw-0068270fcda9b6e14 / internet-gateway-aula-vpc

Actions

Details Info

Internet gateway ID	igw-0068270fcda9b6e14	State	Detached
VPC ID	-	Owner	851725320460

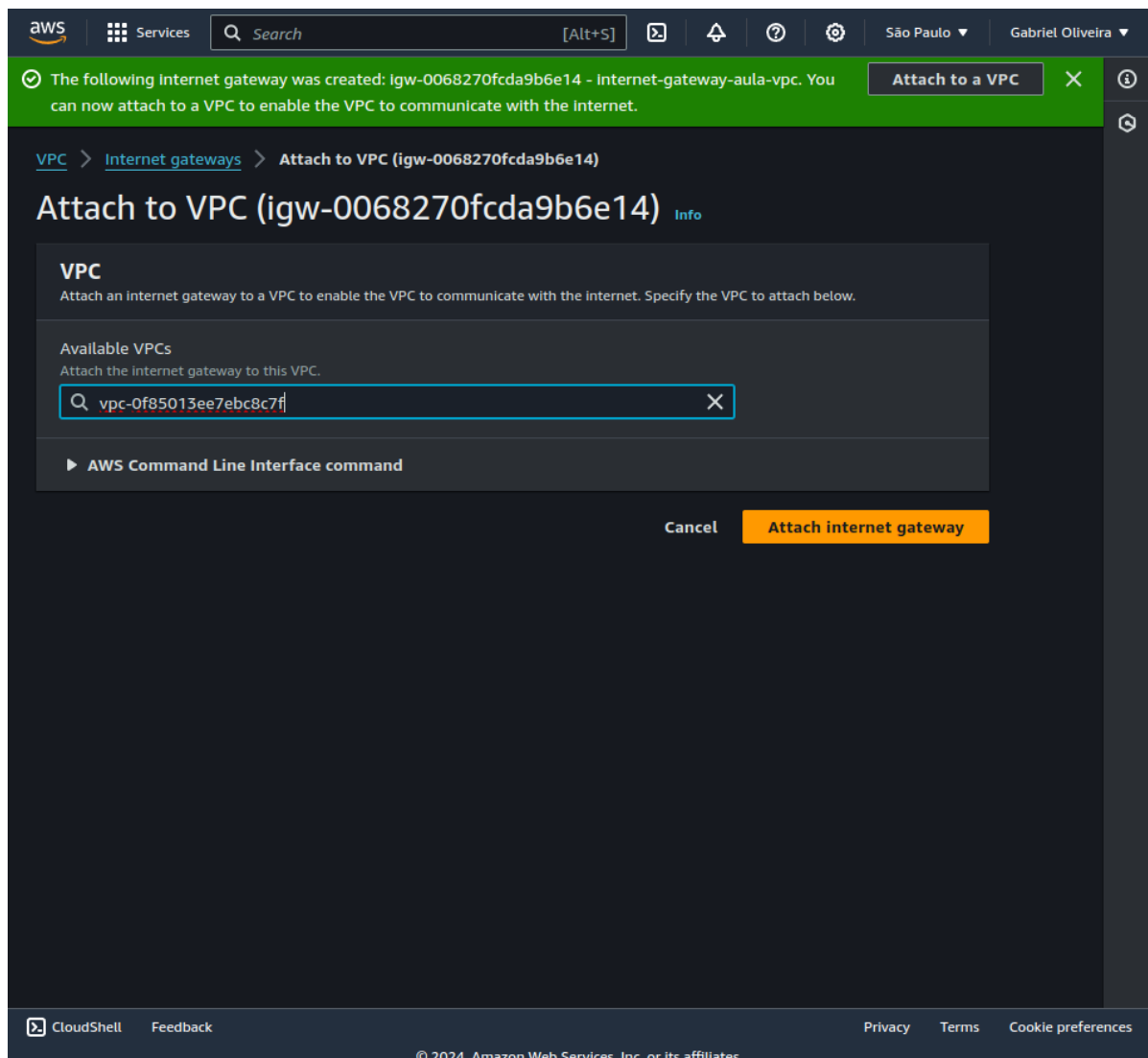
Tags Manage tags

Search tags

< 1 > ⚙

Key	Value
Name	internet-gateway-aula-vpc

associando gateway a uma VPC:



agora vamos configurar um roteamento, que está ligada a VPC, que são regras que de acesso:

aws

Services

Search

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VPC dashboard

EC2 Global View

Filter by VPC:
Select a VPC

Virtual private cloud

Your VPCs

Subnets

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Internet gateways

Egress-only Internet gateways

DHCP option sets

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Internet gateway igw-0068270fcd9b6e14 successfully attached to vpc-0f85013ee7ebc8c7f

Notifications 0 0 2 0 0

Route tables (2)

Info

Actions

Create route table

Find resources by attribute or tag

	Name	Route table ID	Explicit subne
	-	rtb-0e418b54806fdf340	-
	-	rtb-05216ecef5ca9dba2	-

Select a route table

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

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Feedback

Route table rtb-07a5690880e0f1da5 | tabela-rotiamento-vpc-aula was created successfully.

VPC > Route tables > rtb-07a5690880e0f1da5

rtb-07a5690880e0f1da5 / tabela-rotiamento-vpc-aula

Actions

Details Info

Route table ID

rtb-07a5690880e0f1da5

VPC

vpc-0f85013ee7ebc8c7f | VPC-IT-TALENT

Explicit subnet associations

-

Main

No

Owner ID

851725320460

Edge associations

-

Routes Subnet associations Edge associations Route propagation

Routes (1)

Both Edit routes

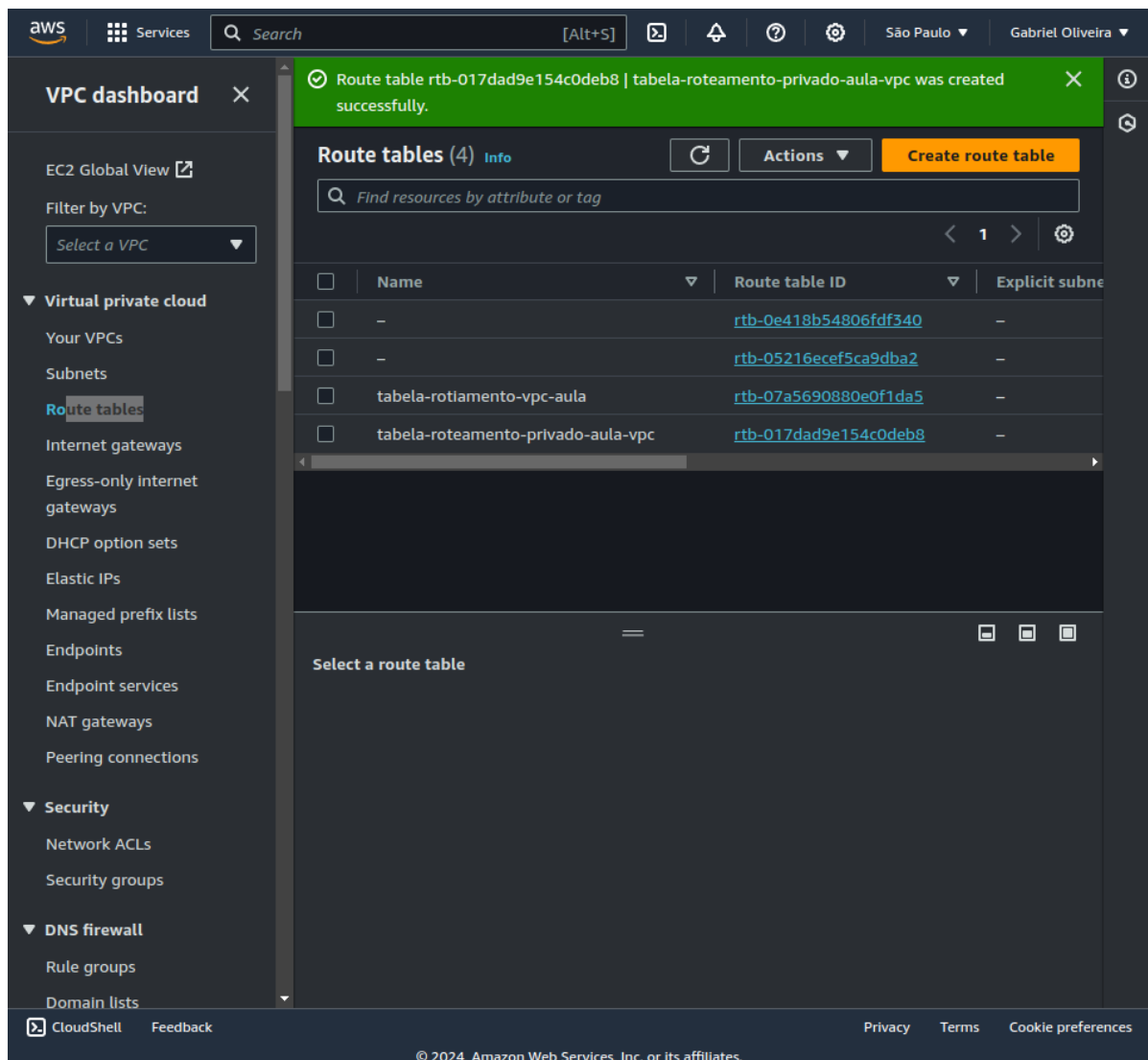
Filter routes

1

Destination	Target	Status	Propagated
10.0.0.0/26	local	Active	No

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criada os roteamentos, agora vamos associar a uma subrede, para que possamos conectar à nossa aplicação na internet.

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

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CloudShell

Feedback

rtb-07a5690880e0f1da5 / tabela-rotiamento-vpc-aula

Actions

Details

Info

Route table ID

rtb-07a5690880e0f1da5

Main

No

VPC

vpc-0f85013ee7ebc8c7f | VPC-IT-TALENT

Owner ID

851725320460

Explicit subnet associations

-

Edge associations

-

<

Routes

Subnet associations

Edge associations

Route propagati

>

Explicit subnet associations (0)

Edit subnet associations

Find subnet association

< 1 >

No subnet associations

You do not have any subnet associations.

Subnets without explicit associations (2)

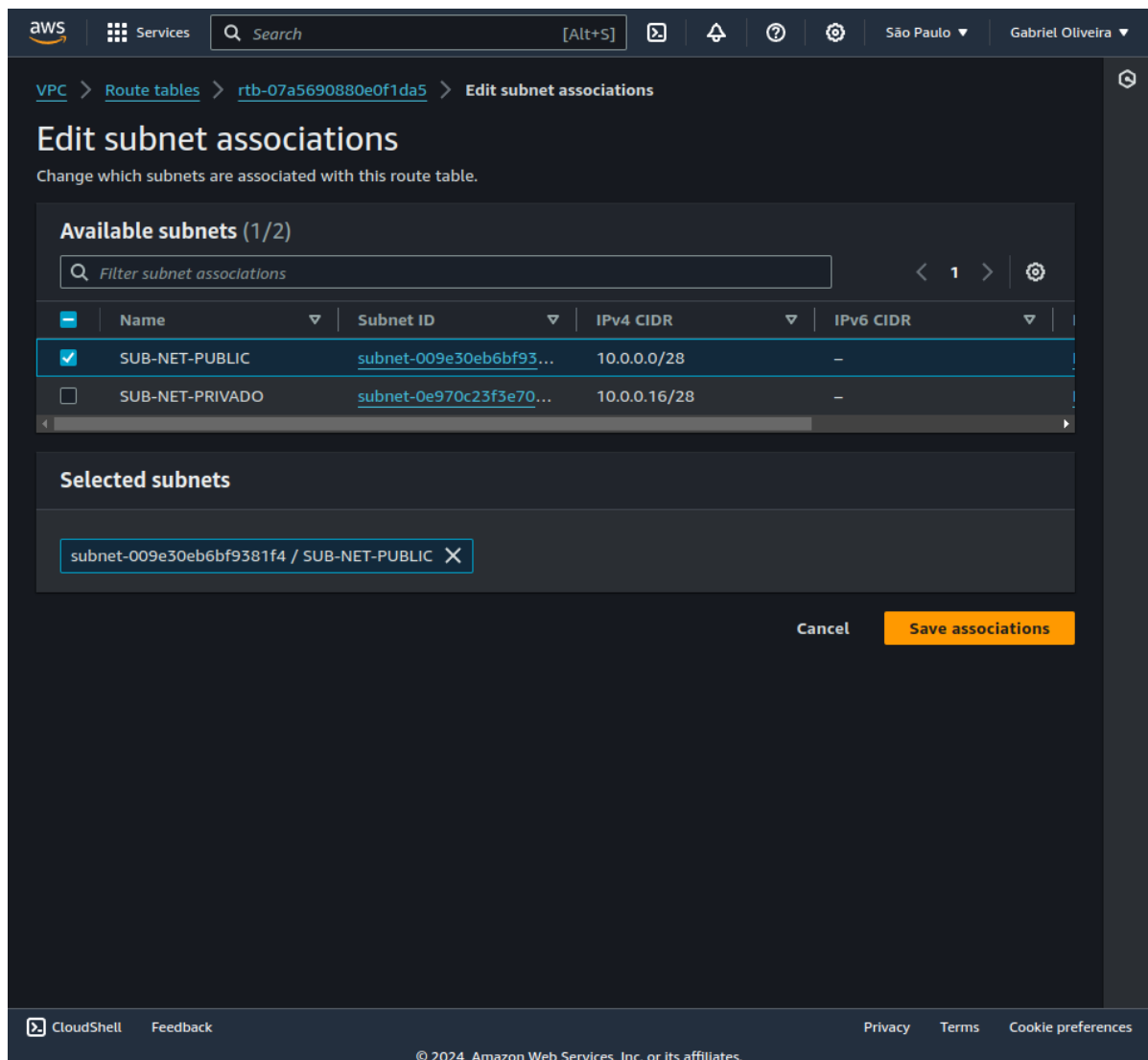
Edit subnet associations

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

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agora vamos editar as rotas, que são rotas de acesso a nossa aplicação:

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VPC dashboard

EC2 Global View

Filter by VPC:
Select a VPC

Virtual private cloud

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CloudShellFeedback

You have successfully updated subnet associations for rtb-07a5690880e0f1da5 / tabela-rotiamento-vpc-aula.

VPC > Route tables > rtb-07a5690880e0f1da5

rtb-07a5690880e0f1da5 / tabela-rotiamento-vpc-aula

Actions

DetailsInfo

Route table ID
rtb-07a5690880e0f1da5

Main
No

VPC
vpc-0f85013ee7ebc8c7f | VPC-IT-TALENT

Owner ID
851725320460

Explicit subnet associations
subnet-009e30eb6bf9381f4 / SUB-NET-PUBLIC

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagation

Routes (1)

Both

Edit routes

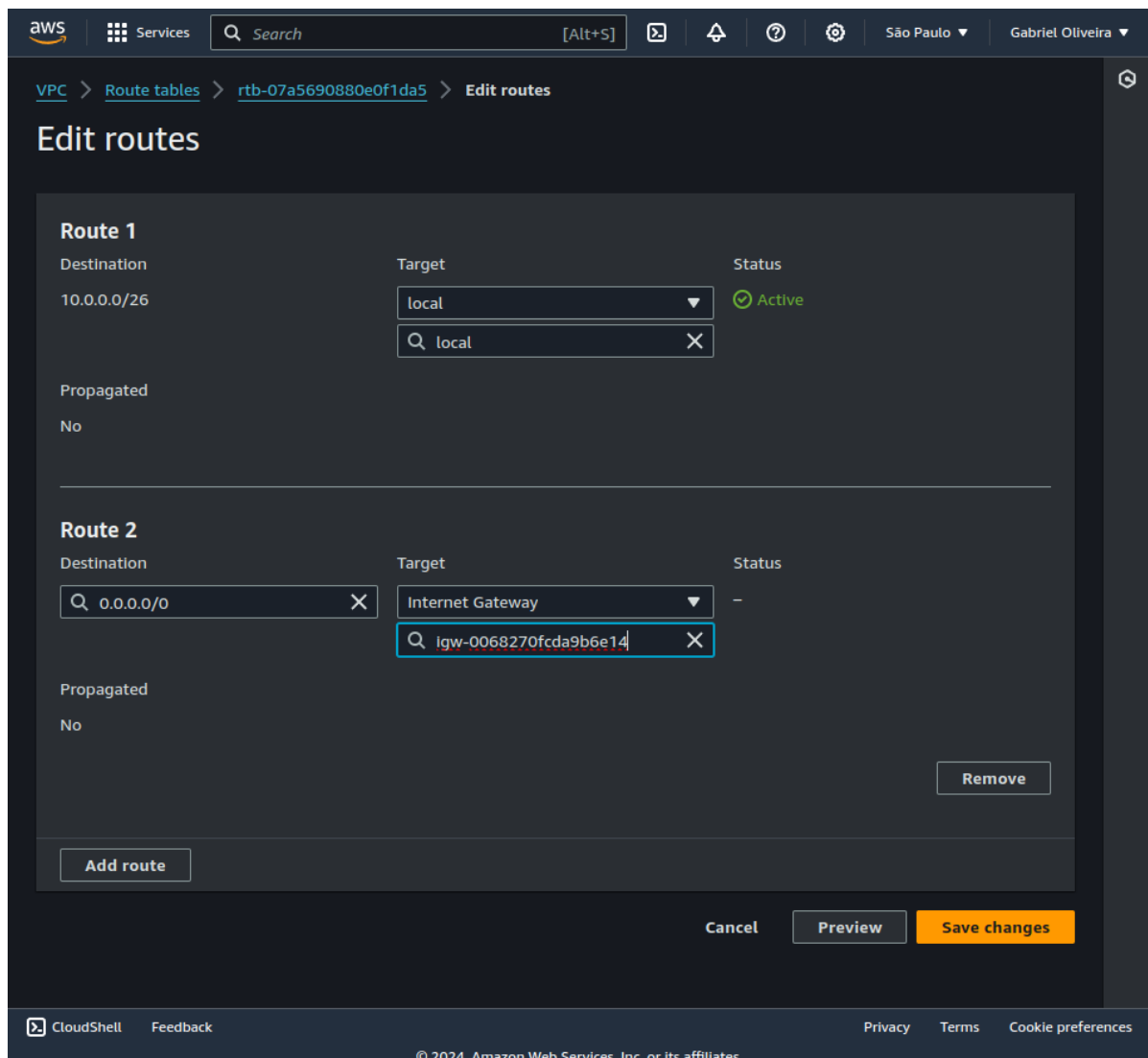
Filter routes

< 1 >

Destination	Target	Status	Propagated
10.0.0.0/26	local	Active	No

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nossa rota, vinda de qualquer lugar (0.0.0.0/0) vai para o nosso gateway, que tem acesso a nossa aplicação, ou seja, quando um usuário acessar nossa aplicação vai direto na nossa gateway, pois configuramos nossa rota de acesso.

Essa é a conexão, que deu certo!


```
scp -i "arquivo.pem" "diretorio completo arquivo.pem" ec2-us
```

```
root@Hackerman: /home/gabriel/Área de Trabalho
ec2-user@ip-10-0-0-9:~$ ssh -i EC2-PUBLIC.pem ec2-user@54.94.28.182
root@Hackerman: /home/gabriel/Área de Trabalho# scp -i "EC2-PUBLIC.pem" /home/gabriel/Área de Trabalho/EC2-PUBLIC.pem ec2-user@54.94.28.182:/home/ec2-user/
EC2-PUBLIC.pem
100% 1678 30.2KB/s 00:00
root@Hackerman: /home/gabriel/Área de Trabalho#
```

```
root@Hackerman: /home/gabriel/Área de Trabalho# ssh -i "EC2-PUBLIC.pem" ec2-user@ip-10-0-0-9
#_
~\_#####_ Amazon Linux 2023
~~\_#####\
~~\_###|
~~\_#/ https://aws.amazon.com/linux/amazon-linux-2023
~~\_V~' '->
~~~
~~~. _ _ _ _ _
~~~ _/ _/ _/ _/ _/
~~~ _/m/' '->

Last login: Tue Jun 11 17:59:39 2024 from 45.239.9.176
[ec2-user@ip-10-0-0-9 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-0-9 ~]$ ls
[ec2-user@ip-10-0-0-9 ~]$ ls
[ec2-user@ip-10-0-0-9 ~]$ ls -l /home/ec2-user
total 0
[ec2-user@ip-10-0-0-9 ~]$ ls
EC2-PUBLIC.pem
[ec2-user@ip-10-0-0-9 ~]$
```

agora conectamos o nosso ec2-privado usando nossa sub-rede publica:

sa-east-1.console.aws.amazon.com/vpcconsole/home?region=sa-...

aws Services Search **inglês** português Gabriel Oliveira

VPC dashboard

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only Internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways**
- Peering connections

Security

- Network ACLs
- Security groups

DNS firewall

- Rule groups
- Domain lists

NAT gateways Info

Find resources by attribute or tag

< 1 > ⚙

Name	NAT gateway ID	Connectivity...	Status
No NAT gateways found			

Select a NAT gateway

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sa-east-1.console.aws.amazon.com/vpcconsole/home?region=sa-...

Services Search [Alt+S]

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Elastic IP address 18.228.92.166 (eipalloc-01deec05a4fcf9ba0) allocated.

VPC > NAT gateways > Create NAT gateway

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that Instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the Internet.

NAT gateway settings

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

NAT-EC2-PRIVATE

The name can be up to 256 characters long.

Subnet
Select a subnet in which to create the NAT gateway.

subnet-009e30eb6bf9381f4 (SUB-NET-PUBLIC)

Connectivity type
Select a connectivity type for the NAT gateway.

☒ Public
☐ Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.

eipalloc-01deec05a4fcf9ba0 Allocate Elastic IP

Additional settings Info

Tags

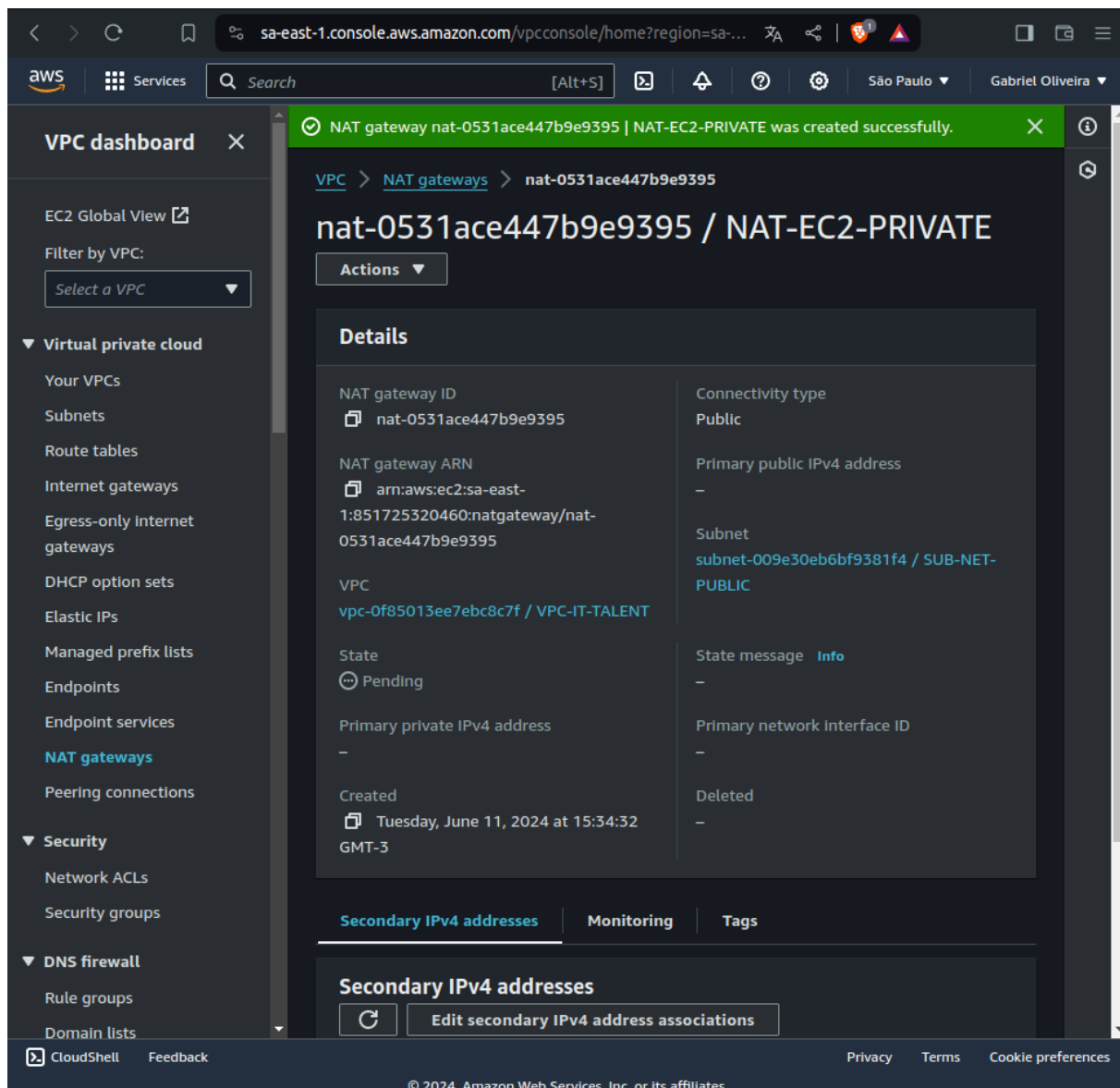
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
-----	------------------

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NAT criado:



Em tabela de roteamento (Route Table), vamos fazer a associação de Sub-Rede

sa-east-1.console.aws.amazon.com/vpcconsole/home?region=sa-...

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NAT gateway nat-0531ace447b9e9395 | NAT-EC2-PRIVATE was created successfully.

Route tables (1/4)

Info

Actions

Create route table

Find resources by attribute or tag

< 1 >

	Name	Route table ID	Explicit subne
<input type="checkbox"/>	tabela-roteamento-privado-aula-vpc	rtb-017dad9e154c0deb8	-
<input checked="" type="checkbox"/>	tabela-rotiamento-vpc-aula	rtb-07a5690880e0f1da5	subnet-009e3
<input type="checkbox"/>	-	rtb-0e418b54806fdf340	-
<input type="checkbox"/>	-	rtb-05216ecef5ca9dba2	-

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
SUB-NET-PUBLIC	subnet-009e30e...	10.0.0.0/28	-

Subnets without explicit associations (1)

Edit subnet associations

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

< 1 >

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
SUB-NET-PRIVADO	subnet-0e970c23...	10.0.0.16/28	-

CloudShell

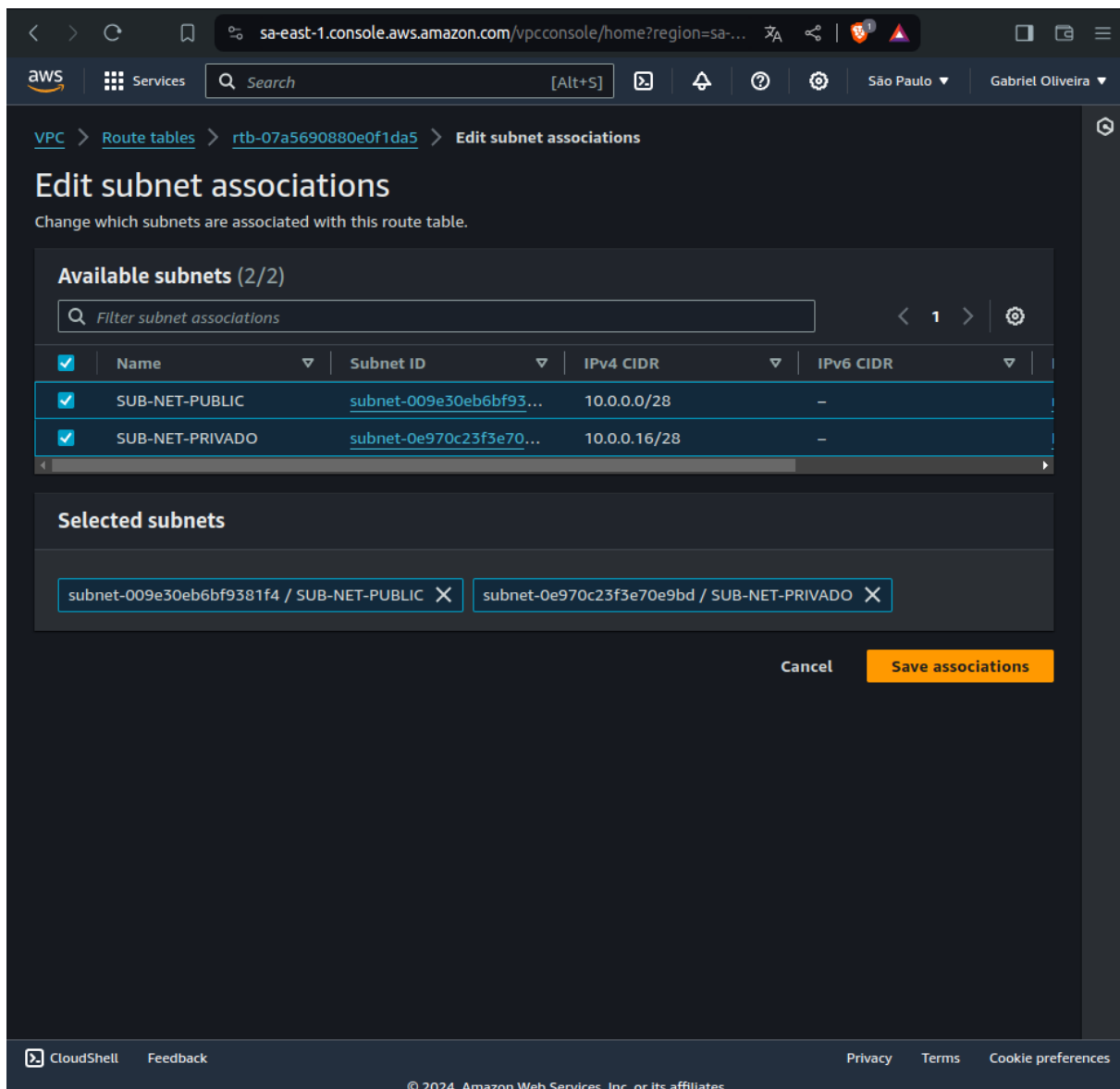
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na tabela de rota privada, vamos fazer o roteamento do nosso NAT:

sa-east-1.console.aws.amazon.com/vpcconsole/home?region=sa-...

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Route tables (1/4) Info

Create route table

Find resources by attribute or tag

	Name	Route table ID	Explicit subne
<input type="checkbox"/>	tabela-roteamento-privado-aula-vpc	rtb-017dad9e154c0deb8	-
<input checked="" type="checkbox"/>	tabela-rotiamento-vpc-aula	rtb-07a5690880e0f1da5	2 subnets
<input type="checkbox"/>	-	rtb-0e418b54806fdf340	-
<input type="checkbox"/>	-	rtb-05216ecef5ca9dba2	-

rtb-07a5690880e0f1da5 / tabela-rotiamento-vpc-aula

Details

Route table ID	Main
rtb-07a5690880e0f1da5	No
VPC	Owner ID
vpc-0f85013ee7ebc8c7f VPC-IT-TALENT	851725320460
Explicit subnet associations	Edge associations
2 subnets	

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VPC > Route tables > rtb-017dad9e154c0deb8

rtb-017dad9e154c0deb8 / tabela-roteamento-privado-aula-vpc

Actions

Details

Info

Route table ID

rtb-017dad9e154c0deb8

Main

No

VPC

vpc-0f85013ee7ebc8c7f | VPC-IT-TALENT

Owner ID

851725320460

Explicit subnet associations

-

Edge associations

-

Routes

Subnet associations

Edge associations

Route propagation

Routes (1)

Both

Edit routes

Filter routes

< 1 >

Destination	Target	Status	Propagated
10.0.0.0/26	local	Active	No

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Updated routes for rtb-017dad9e154c0deb8 / tabela-roteamento-privado-aula-vpc successfully

Details

VPC
vpc-0f85013ee7ebc8c7f | VPC-IT-TALENT

Owner ID
851725320460

Explicit subnet associations
subnet-0e970c23f3e70e9bd / SUB-NET-PRIVADO

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagati

Explicit subnet associations (1)

Edit subnet associations

Find subnet association

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
SUB-NET-PRIVA...	subnet-0e970c2...	10.0.0.16/28	-

Subnets without explicit associations (0)

Edit subnet associations

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
------	-----------	-----------	-----------

No subnets without explicit associations

All your subnets are associated with a route table.

CloudShell

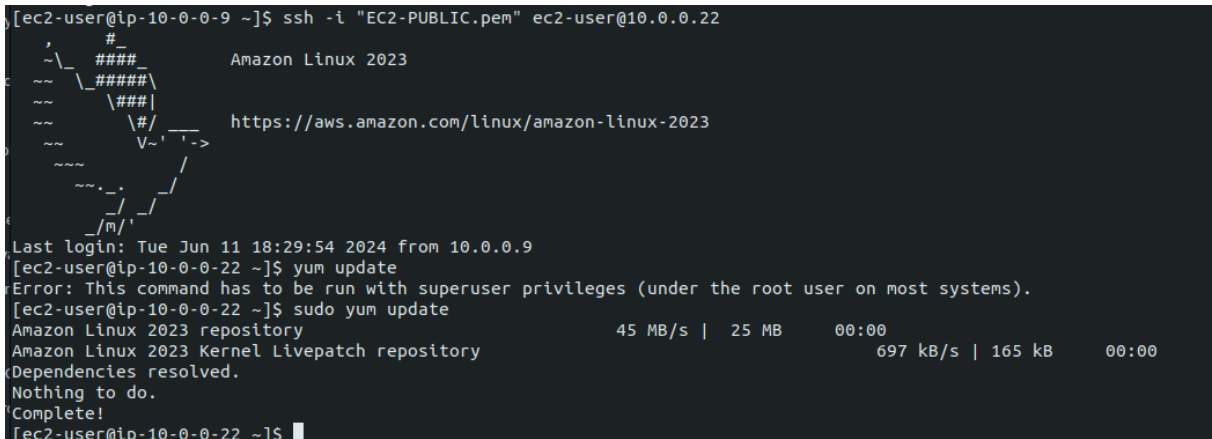
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Foi essa arquitetura que fizemos nesse modulo.

