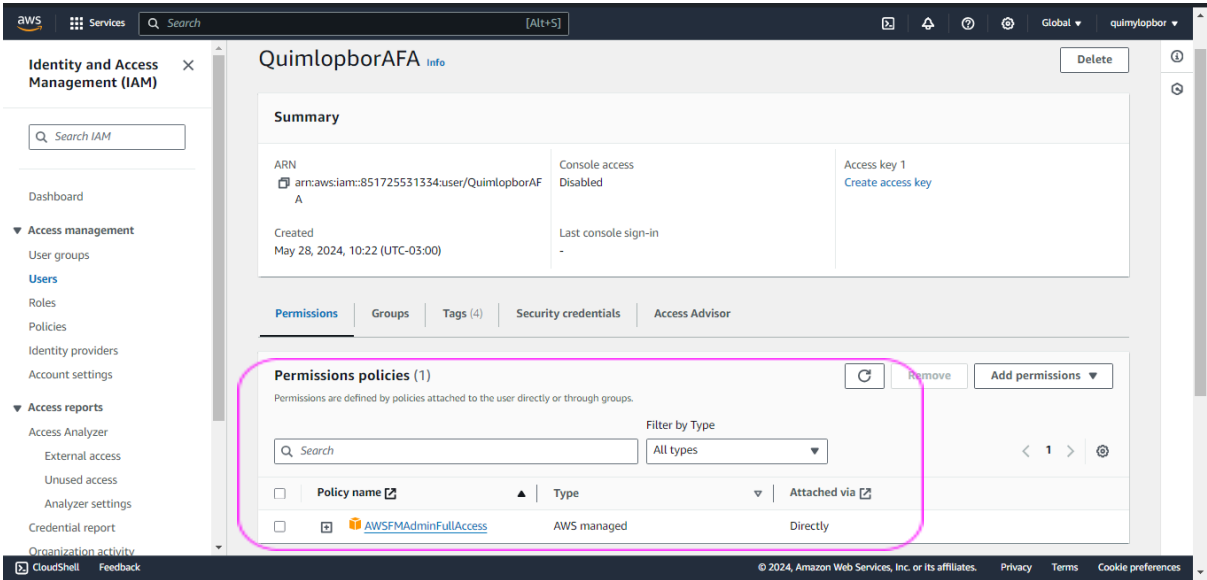


# Desafío 1 AWS

Alumna: Quimey Lopez Bordi

## Paso 1:



Creamos un usuario con los permisos y tags solicitados.

Tags (4)		Manage tags
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.		
Key	Value	
owner	quimey lopez bordi	
mail	quimytop@gmail.com	
team	grupo1	
proyecto	actividad1-aws	

## Paso 2: creación de la instancia.

Details	Status and alarms <a href="#">New</a>	Monitoring	Security	Networking	Storage	Tags
▼ Instance details <a href="#">Info</a>						
Platform Amazon Linux (Inferred)	AMI ID <a href="#">ami-0bb84b8ffd87024d8</a>	Monitoring disabled				
Platform details Linux/UNIX	AMI name al2023-ami-2023.4.20240513.0-kernel-6.1-x86_64	Termination protection Disabled				
Stop protection Disabled	Launch time Tue May 28 2024 10:48:40 GMT-0300 (Argentina Standard Time) (6 minutes)	AMI location amazon/al2023-ami-2023.4.20240513.0-kernel-6.1-x86_64				
Instance auto-recovery Default	Lifecycle normal	Stop-hibernate behavior Disabled				
AMI Launch index 0	Key pair assigned at launch <a href="#">instance01</a>	State transition reason -				
Credit specification standard	Kernel ID	State transition message				

Details	Status and alarms <a href="#">New</a>	Monitoring	Security	Networking	Storage	Tags
Tags						
<input type="text"/>						
Key	Value					
Name	instance01					
owner	quimey lopez bordi					
proyecto	actividad1-aws					
mail	quimylop@gmail.com					
team	grupo1					

### Paso 3: Agregamos script bash para la instalación del apache en User Data.

aws

Services

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☰

Current user data

User data currently associated with this instance

No user data found

Copy user data

New user data

This user data will replace the current user data

☒ Modify user data as text

Add your user data below

☐ Modify user data by importing a file

Description of importing a file and what will happen to it

```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "Hello World from $(hostname -f)" > /var/www/html/index.html
```

☐ Input is already base64-encoded

## Paso 4: Creamos el NSG y habilitamos el tráfico http, https y ssh a nuestra instancia.

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EC2 > Security Groups > Create security group

Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [Info](#)

Allow http - https - ssh

Name cannot be edited after creation.

Description [Info](#)

Allow http - https - ssh

VPC [Info](#)

vpc-087f897eb95bd271a

Inbound rules [Info](#)

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EC2 > Security Groups > sg-091a6946ca6ae2db1 - Allow http - https - ssh

sg-091a6946ca6ae2db1 - Allow http - https - ssh

Details

Security group name

Allow http - https - ssh

Security group ID

sg-091a6946ca6ae2db1

Description

Allow http - https - ssh

VPC ID

vpc-087f897eb95bd271a

Owner

851725531334

Inbound rules count

3 Permission entries

Outbound rules count

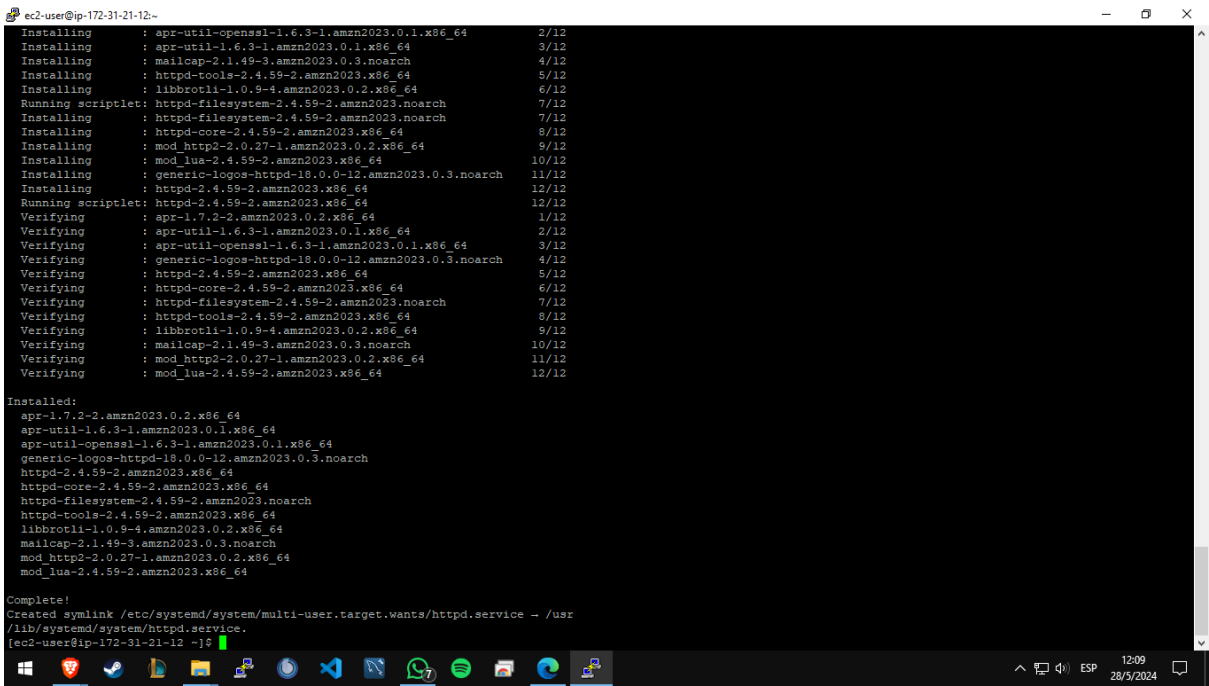
1 Permission entry

Inbound rules

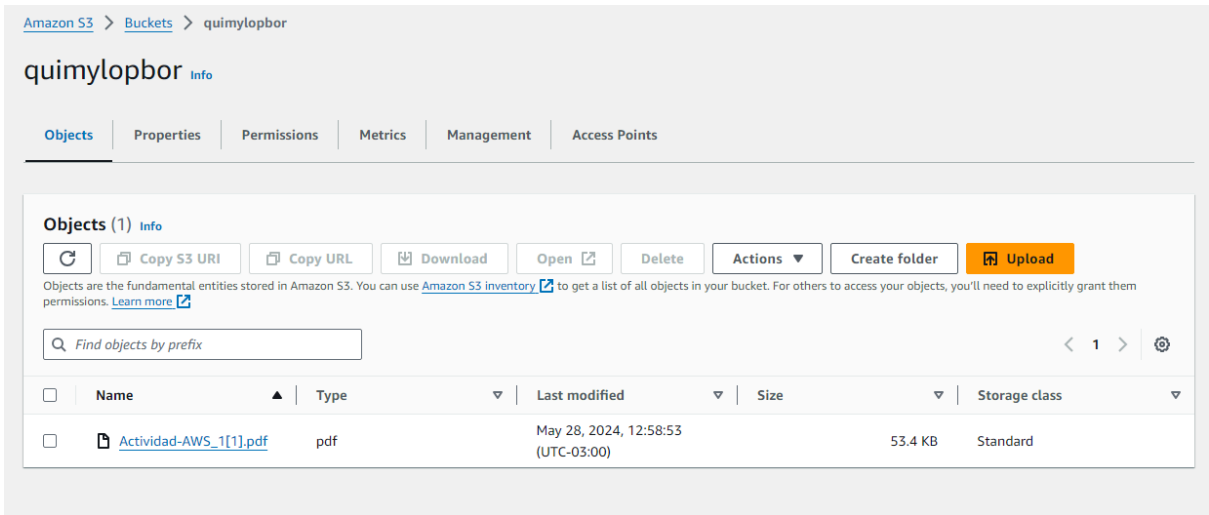
Outbound rules

Tags

Paso 5: nos conectamos via ssh a las instancia e instalamos apache



Paso 6: Creamos el bucket y subimos el pdf solicitado.



[Amazon S3](#) > [Buckets](#) > [quimylpbor](#) > Actividad-AWS\_1[1].pdf

Actividad-AWS\_1[1].pdf [Info](#)

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner

quimylpbor

AWS Region

US East (N. Virginia) us-east-1

Last modified

May 28, 2024, 12:58:53 (UTC-03:00)

Size

53.4 KB

Type

S3 URI

s3://quimylpbor/Actividad-AWS\_1[1].pdf

Amazon Resource Name (ARN)

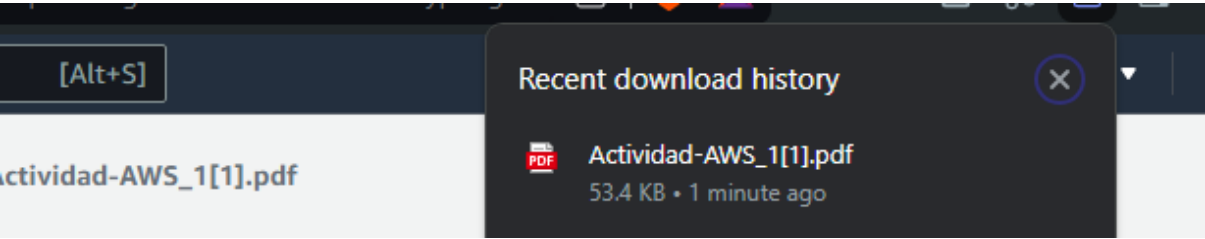
arn:aws:s3:::quimylpbor/Actividad-AWS\_1[1].pdf

Entity tag (Etag)

79743842addae187942fdec2be83c12e

Object URL

https://quimylpbor.s3.amazonaws.com/Actividad-AWS\_1%5B



Se descargo correctamente el archivo desde el bucket.

Paso 6: creaci3n de volumen EBS

[EC2](#) > [Volumes](#) > vol-0a2bf95d8a8e6819b

vol-0a2bf95d8a8e6819b

Actions

Delete

Modify

Volume ID

vol-0a2bf95d8a8e6819b

Size

2 GiB

Type

gp3

Volume status

Okay

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)

Volume state

Available

IOPS

3000

Throughput

125

Encryption

Not encrypted

KMS key ID

-

KMS key alias

-

KMS key ARN

-

Fast snapshot restored

No

Snapshot

-

Availability Zone

us-east-1a

Created

Tue May 28 2024 14:26:15 GMT-0300 (Argentina Standard Time)

Multi-Attach enabled

No

Attached resources

-

Outposts ARN

-

## paso 7: Formatear EBS como ext4

```
[ec2-user@ip-172-31-21-12 ~]$ sudo fdisk -l
Disk /dev/xvda: 8 GiB, 8589934592 bytes, 16777216 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: B7529086-E536-4778-9EF7-8D5E5C951BC0

Device            Start       End   Sectors  Size Type
/dev/xvda1        24576    16777182  16752607    8G Linux filesystem
/dev/xvda127      22528     24575     2048    1M BIOS boot
/dev/xvda128      2048     22527     20480   10M EFI System

Partition table entries are not in disk order.
```

```
Disk /dev/xvdb: 2 GiB, 2147483648 bytes, 4194304 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[ec2-user@ip-172-31-21-12 ~]$ lsblk -f
```

NAME	FSTYPE	FSVER	LABEL	UUID	FSAAVAIL	FSUSE%	MOUNTPOINTS
xvda							
└─xvda1	xfs		/	1600e074-aal6-449f-b780-97f8a31928c1	6.4G	19%	/
└─xvda127							
└─xvda128	vfat	FAT16		5F21-CDC5	8.7M	13%	/boot/efi
xvdb	ext4	1.0		1bd682be-bd36-4854-8a70-08334c35954a			

```
[ec2-user@ip-172-31-21-12 ~]$
```

## Obtenemos el UUID del volumen ebs:

```
[ec2-user@ip-172-31-21-12 etc]$ sudo blkid /dev/xvdb
/dev/xvdb: UUID="1bd682be-bd36-4854-8a70-08334c35954a" BLOCK_SIZE="4096" TYPE="ext4"
[ec2-user@ip-172-31-21-12 etc]$ sudo blkid "1bd682be-bd36-4854-8a70-08334c35954a" BLOCK_SIZE="4096" TYPE="ext4"
[ec2-user@ip-172-31-21-12 etc]$
```

## Agregamos el volumen en fstab:

```
ec2-user@ip-172-31-21-12/etc
```

```
#
UUID=1600e074-aal6-449f-b780-97f8a31928c1 / xfs defaults,noatime 1 1
UUID=5F21-CDC5 /boot/efi vfat defaults,noatime,uid=0,gid=0,umask=0077,shortname=winnt,x-systemd.automount 0 2
UUID=1bd682be-bd36-4854-8a70-08334c35954a /mnt/desafios ext4 defaults 0 2
~
~
```

## montamos el volumen en /desafios

```
[ec2-user@ip-172-31-21-12 etc]$ sudo mount /mnt/desafios
```

## comprobamos que se puede escribir en la partición

```
[ec2-user@ip-172-31-21-12 desafios]$ sudo touch test.txt
[ec2-user@ip-172-31-21-12 desafios]$ ls
lost+found test.txt
[ec2-user@ip-172-31-21-12 desafios]$
```

## Luego de otorgar permiso de acceso al objeto de S3, hacemos un curl a la url con el comando wget

```
ec2-user@ip-172-31-21-12/mnt/desafios
[ec2-user@ip-172-31-21-12 desafios]$ sudo wget https://quimylpbor.s3.amazonaws.com/Actividad-AWS_145B145D.pdf
--2024-05-28 18:21:44-- https://quimylpbor.s3.amazonaws.com/Actividad-AWS_145B145D.pdf
Resolving quimylpbor.s3.amazonaws.com (quimylpbor.s3.amazonaws.com)... 52.216.160.211, 52.217.111.28, 52.217.224.97, ...
Connecting to quimylpbor.s3.amazonaws.com (quimylpbor.s3.amazonaws.com)|52.216.160.211|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 54633 (53K) [application/pdf]
Saving to: 'Actividad-AWS_1[1].pdf'

Actividad-AWS_1[1].pdf 100%[=====] 53.35K --.-KB/s in 0.001s

2024-05-28 18:21:44 (60.8 MB/s) - 'Actividad-AWS_1[1].pdf' saved [54633/54633]

[ec2-user@ip-172-31-21-12 desafios]$ ls
'Actividad-AWS_1[1].pdf' lost+found test.txt
[ec2-user@ip-172-31-21-12 desafios]$
```