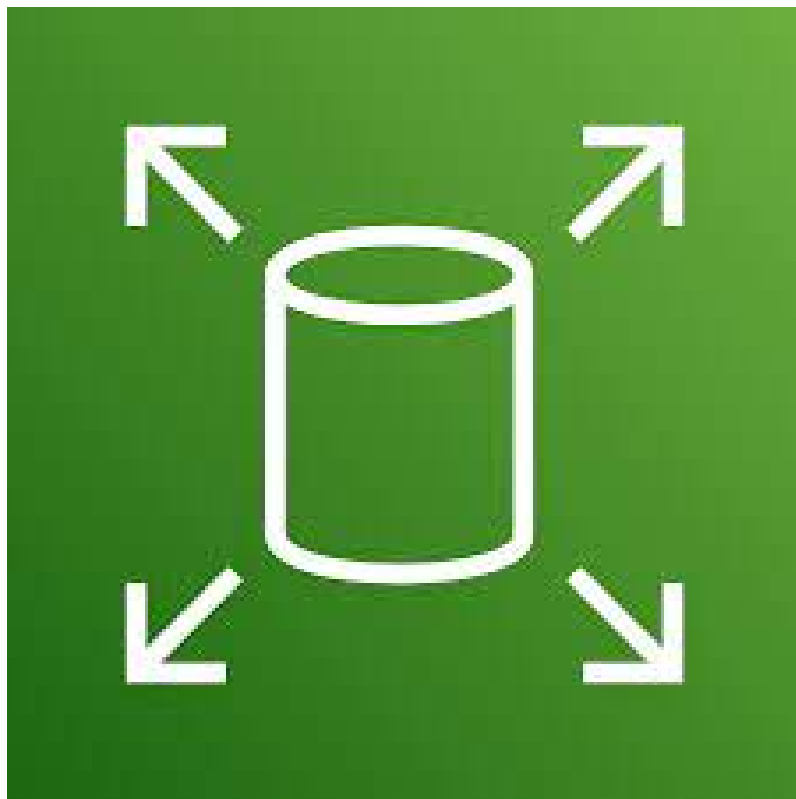




# 53°

**Lab - AWS re/Start**

**Trabajo con Amazon EBS**



## Tarea 01

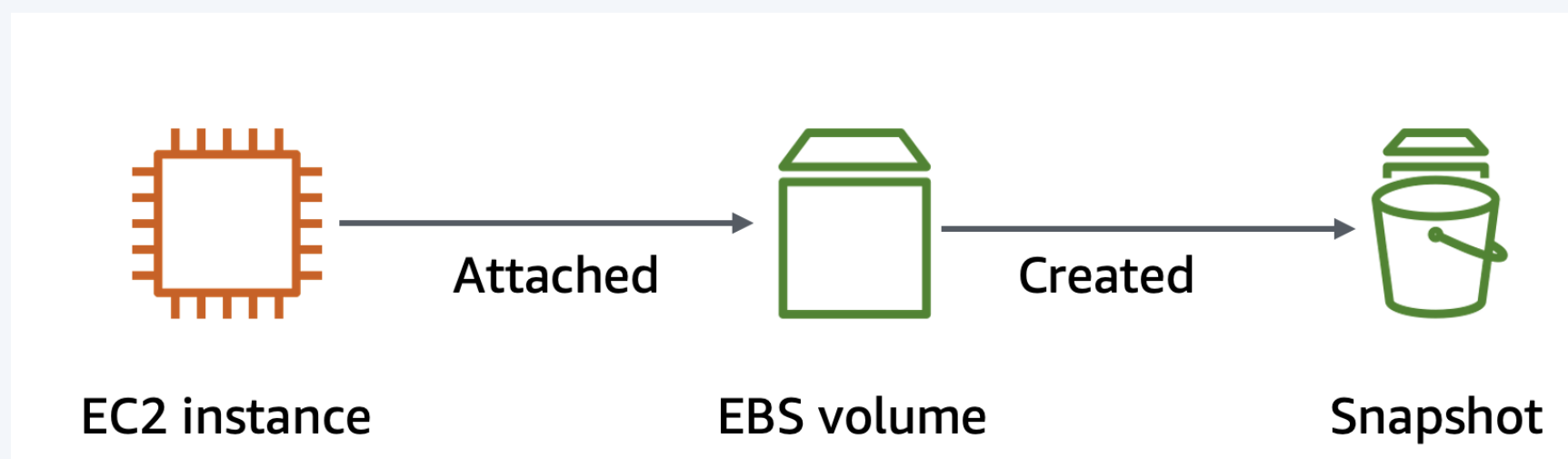
---



# Interactuando con Amazon EBS

Los objetivos son:

- Crear un volumen EBS.
- Adjuntar y montar un volumen EBS a una instancia EC2.
- Creación de una instantánea de un volumen EBS.
- Creación de un volumen EBS a partir de una instantánea.



# Tarea 01



## Empezamos creando un volumen EBS

Volume settings

Volume type

Info

General Purpose SSD (gp2)

Size (GiB)

Info

1

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS

Info

100 / 3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s)

Info

Not applicable

Availability Zone

Info

us-west-2a

Snapshot ID - optional

Info

Don't create volume from a snapshot

Encryption

Info

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☐ Encrypt this volume

Tags - optional

Info

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 your resources or track your AWS costs.

Key

Value - optional

Q Name X

Q My Volume X

Remove

EC2 > Volumes > vol-0b683c1948ac7b420 > Attach volume

Attach volume

Info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-0b683c1948ac7b420 (My Volume)

Availability Zone

us-west-2a

Instance

Info

i-0f96145cbc01e5dbc

Only instances in the same Availability Zone as the selected volume are displayed.

Device name

Info

/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume. /dev/sd[f-p] for data volumes.

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

Attach volume

## Después de montar el volumen EBS a nuestra instancia:

```
[ec2-user@ip-10-1-11-84 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        465M  0    465M  0% /dev
tmpfs           473M  0    473M  0% /dev/shm
tmpfs           473M 464K  472M  1% /run
tmpfs           473M  0    473M  0% /sys/fs/cgroup
/dev/nvme0n1p1  8.0G  1.6G  6.5G  20% /
tmpfs           95M  0    95M  0% /run/user/0
tmpfs           95M  0    95M  0% /run/user/1000
[ec2-user@ip-10-1-11-84 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
65536 inodes, 262144 blocks
13107 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-10-1-11-84 ~]$
```

```
[ec2-user@ip-10-1-11-84 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-84 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-84 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-84 ~]$ cat /etc/fstab
#
UUID=54c25061-a380-4c86-b6d3-e0e6cdd7f106 / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-84 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        465M  0    465M  0% /dev
tmpfs           473M  0    473M  0% /dev/shm
tmpfs           473M 464K  472M  1% /run
tmpfs           473M  0    473M  0% /sys/fs/cgroup
/dev/nvme0n1p1  8.0G  1.6G  6.5G  20% /
tmpfs           95M  0    95M  0% /run/user/0
tmpfs           95M  0    95M  0% /run/user/1000
/dev/nvme1n1    975M  60K  924M  1% /mnt/data-store
[ec2-user@ip-10-1-11-84 ~]$
```

< SWIPE ≡

# Tarea 01



Y podemos añadir archivos al nuevo volumen de almacenamiento montado:

```
aws
Services
Search [Alt+S]

[ec2-user@ip-10-1-11-84 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-84 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-84 ~]$
```

Ahora, crearemos un respaldo de este volumen EBS, los cuales son denominados *snapshots*.

Successfully attached volume vol-0b683c1948ac7b420 to instance i-0f96145cbc01e5dbc.

Volumes (1/2) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone
<input type="checkbox"/>	-	vol-00f67392daf929954	gp2	8 GiB	100	-	snap-0cf1f3b2...	2024/03/06 16:28 GMT-5	us-west-2a
<input checked="" type="checkbox"/>	My Volume	vol-0b683c1948ac7b420	gp2	1 GiB	100	-	-	2024/03/06 17:00 GMT-5	us-west-2a

Actions

Create volume

Modify volume

Create snapshot

Create snapshot lifecycle policy

Delete volume

Attach volume

Snapshots (1) Info

Owned by me

Search

	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption
<input type="checkbox"/>	My Snapshot	snap-0e5b756084021c726	1 GiB	-	Standard	Completed	2024/03/06 17:08 GMT-5	Available (100%)	Not encrypted

Para crear un volumen EBS a partir del snapshot (respaldo).

Size (GiB) Info

1

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS Info

3000

Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s) Info

125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone Info

us-west-2a

Fast snapshot restore Info

☐ Not enabled for selected snapshot

Encryption

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☐ Encrypt this volume

Tags - optional Info

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

Q Name X

Q Restored Volume X

Remove

EC2 > Volumes > vol-0d815549ccad3de33 > Attach volume

Attach volume Info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-0d815549ccad3de33 (Restored Volume)

Availability Zone

us-west-2a

Instance Info

i-0f96145cbc01e5dbc

Only instances in the same Availability Zone as the selected volume are displayed.

Device name Info

/dev/sdg

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sd[f-p] for data volumes.

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

Attach volume

Montamos el volumen EBS que hemos creado

```
aws
Services
Search [Alt+S]

[ec2-user@ip-10-1-11-84 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-10-1-11-84 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-10-1-11-84 ~]$ ls /mnt/data-store2/file.txt
/mnt/data-store2/file.txt
[ec2-user@ip-10-1-11-84 ~]$
```