

Sesión 5 - wPráctica SSH BASH - EFS - EBS - S3

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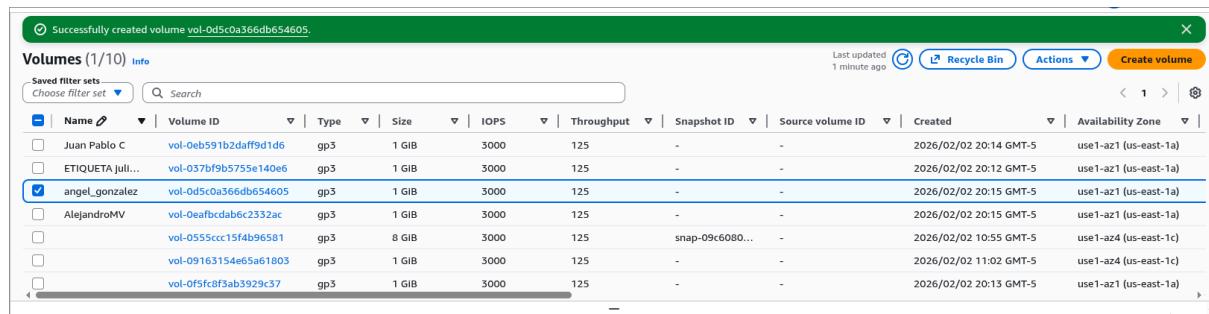
Actividad 1. Seguridad y Acceso

Se conectó a través de SSH a una instancia de EC2

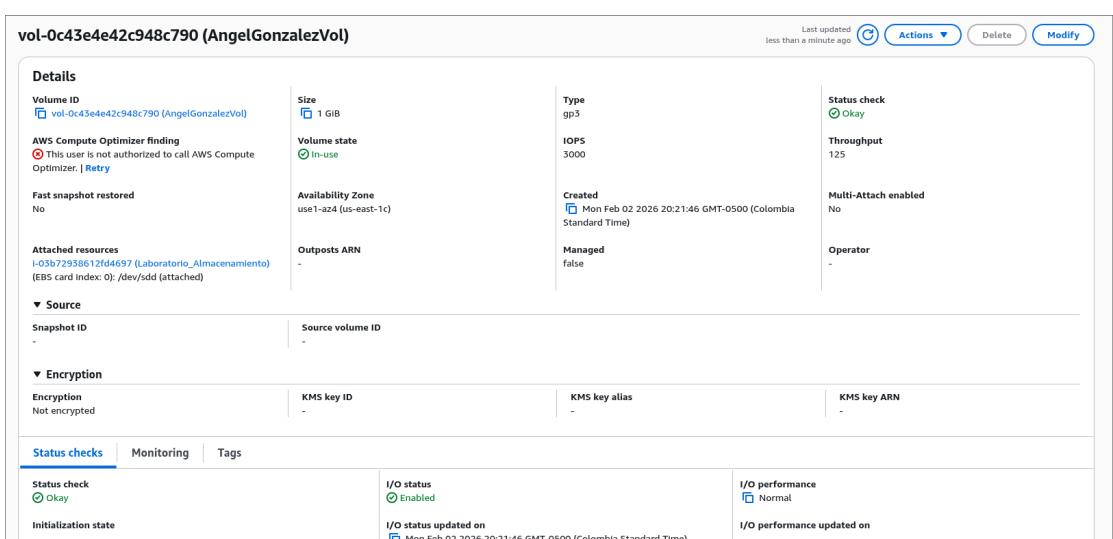
```
.../cloud_beteck 20:11
> ssh anggonpad@35.175.199.96
** WARNING: connection is not using a post-quantum key exchange algorithm.
** This session may be vulnerable to "store now, decrypt later" attacks.
** The server may need to be upgraded. See https://openssh.com/pq.html
anggonpad@35.175.199.96's password:
'_
~\_ #####_      Amazon Linux 2023
~~ \#####\
~~ \|##|
~~  \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
~~    \~' '→
~~~   /
~~~.~.~/_
~/m/
Last login: Tue Feb  3 01:00:03 2026 from 181.59.3.163
[anggonpad@ip-172-31-31-247 ~]$
```

Actividad 2. Almacenamiento

Se creó un volumen EBS de 1gb y se adjunto a la instancia de EC2



The screenshot shows the AWS CloudFormation console with a green success message at the top: "Successfully created volume vol-0d5c0a366db654605." Below it is a table titled "Volumes (1/10)" showing a single volume named "angel_gonzalez". The volume has a size of 1 GiB, type gp3, IOPS of 3000, throughput of 125, and was created on Mon Feb 02 20:15 GMT-5. It is located in the us-east-1a availability zone.



The screenshot shows the AWS EBS console with the volume "vol-0c43e4e42c948c790 (AngelGonzalezVol)" selected. The "Details" tab is active, displaying the following information:

Volume ID	Size	Type	Status check
vol-0c43e4e42c948c790 (AngelGonzalezVol)	1 GiB	gp3	Okay
AWS Compute Optimizer finding	Volume state	IOPS	Throughput
This user is not authorized to call AWS Compute Optimizer.	In-use	3000	125
Fast snapshot restored	Availability Zone	Created	Multi-Attach enabled
No	use1-az2 (us-east-1c)	Mon Feb 02 20:21:46 GMT-0500 (Colombia Standard Time)	No
Attached resources	Outposts ARN	Managed	Operator
i-03b72938612fd4697 (Laboratorio_Almacenamiento) (EBS card index: 0) /dev/sdd (attached)	-	false	-

Below the details, there are tabs for "Source", "Encryption", "Status checks", "Monitoring", and "Tags". The "Status checks" tab shows a "Status check" of "Okay" and "I/O status" of "Enabled". The "Initialization state" is listed as "I/O status updated on Mon Feb 02 2026 20:21:46 GMT-0500 (Colombia Standard Time)".

Se le dio formato xfs y se monto internamente en una carpeta llamada /angelgonzalez

```
=          reflink=1    bigtime=1 inobtcount=1 nnext64=0
=
data      =          exchange=0
          bsize=4096   blocks=262144, imaxpct=25
          sunit=1     swidth=1 blks
naming    =version 2  ascii-ci=0, ftype=1, parent=0
log       =internal log blocks=16384, version=2
          bsize=4096
          sectsz=512  sunit=1 blks, lazy-count=1
realtime  =none     extsz=4096  blocks=0, rtextents=0
[anggonpad@ip-172-31-31-247 ~]$ sudo mkdir /angelgonzalez
[anggonpad@ip-172-31-31-247 ~]$ sudo mount /dev/nvme10n1 /angelgonzalez
```

```
[anggonpad@ip-172-31-31-247 ~]$ lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme1n1   259:0   0   1G  0 disk
nvme0n1   259:1   0   8G  0 disk
└─nvme0n1p1 259:2   0   8G  0 part /
└─nvme0n1p127 259:3   0   1M  0 part
└─nvme0n1p128 259:4   0  10M  0 part /boot/efi
nvme2n1   259:5   0   1G  0 disk
nvme3n1   259:6   0   1G  0 disk /pablocastano6
nvme4n1   259:7   0   1G  0 disk /baldo542
nvme5n1   259:8   0   1G  0 disk
nvme6n1   259:9   0   1G  0 disk
nvme7n1   259:10  0   1G  0 disk
nvme8n1   259:11  0   1G  0 disk
nvme9n1   259:12  0   1G  0 disk
nvme10n1  259:13  0   1G  0 disk /angelgonzalez
nvme11n1  259:14  0   1G  0 disk /mateo
nvme12n1  259:15  0   1G  0 disk
nvme13n1  259:16  0   1G  0 disk
nvme14n1  259:17  0   1G  0 disk
nvme15n1  259:18  0   1G  0 disk
nvme16n1  259:19  0  100G 0 disk
nvme17n1  259:20  0   1G  0 disk
```

```
[anggonpad@ip-172-31-31-247 ~]$ sudo chown anggonpad /angelgonzalez/
[anggonpad@ip-172-31-31-247 ~]$ ls /angelgonzalez/
[anggonpad@ip-172-31-31-247 ~]$ touch /angelgonzalez/test.txt
[anggonpad@ip-172-31-31-247 ~]$ cd /angelgonzalez/
[anggonpad@ip-172-31-31-247 angelgonzalez]$ ls
test.txt
[anggonpad@ip-172-31-31-247 angelgonzalez]$
```

Actividad 4. Script de automatización.

```
1 #!/bin/bash
2 # Script de Backup Automatizado - Bootcamp AWS
3 # Descripción: Comprime datos de EBS/EFS y los sube a un Bucket S3.
4 # =====
5
6 BUCKET_NAME="mi-bucket-de-respaldo-unico"      # Bucket creado en el lab
7 SOURCE_EFS="/mnt/shared"                         # Punto de montaje EFS
8 SOURCE_EBS="/mnt/logs"                           # Punto de montaje EBS
9 BACKUP_DIR="/tmp/backups"                        # Carpeta temporal local
10 TIMESTAMP=$(date +%Y-%m-%d_%H-%M-%S)
11 FILE_NAME="backup_${TIMESTAMP}.tar.gz"
12
13
14 mkdir -p $BACKUP_DIR
15 echo "— Iniciando proceso de respaldo: ${TIMESTAMP} —"
16
17 if [ -d "$SOURCE_EFS" ] && [ -d "$SOURCE_EBS" ]; then
18     echo "[1/3] Comprimiendo archivos de EFS y EBS..."
19     tar -czf $BACKUP_DIR/$FILE_NAME $SOURCE_EFS $SOURCE_EBS
20 else
21     echo "ERROR: No se encontraron los puntos de montaje."
22     exit 1
23 fi
24
25 echo "[2/3] Subiendo archivo a S3: s3://$BUCKET_NAME/"
26 aws s3 cp $BACKUP_DIR/$FILE_NAME s3://$BUCKET_NAME/
27
28 if [ $? -eq 0 ]; then
29     echo "[3/3] Respaldo completado exitosamente."
30     rm $BACKUP_DIR/$FILE_NAME
31     echo "Limpieza local completada."
32 else
33     echo "ERROR: Falló la subida a S3. Revisa los permisos de IAM de la instancia."
34     exit 1
35 fi
36
37 echo "— Proceso finalizado —"
38
```

NORMAL ➔ ↵ main backup.sh [+]

▲ < ✎ sh Bot 38:1