56°

Lab - AWS re/Start

Actividad: Trabajo con Amazon S3

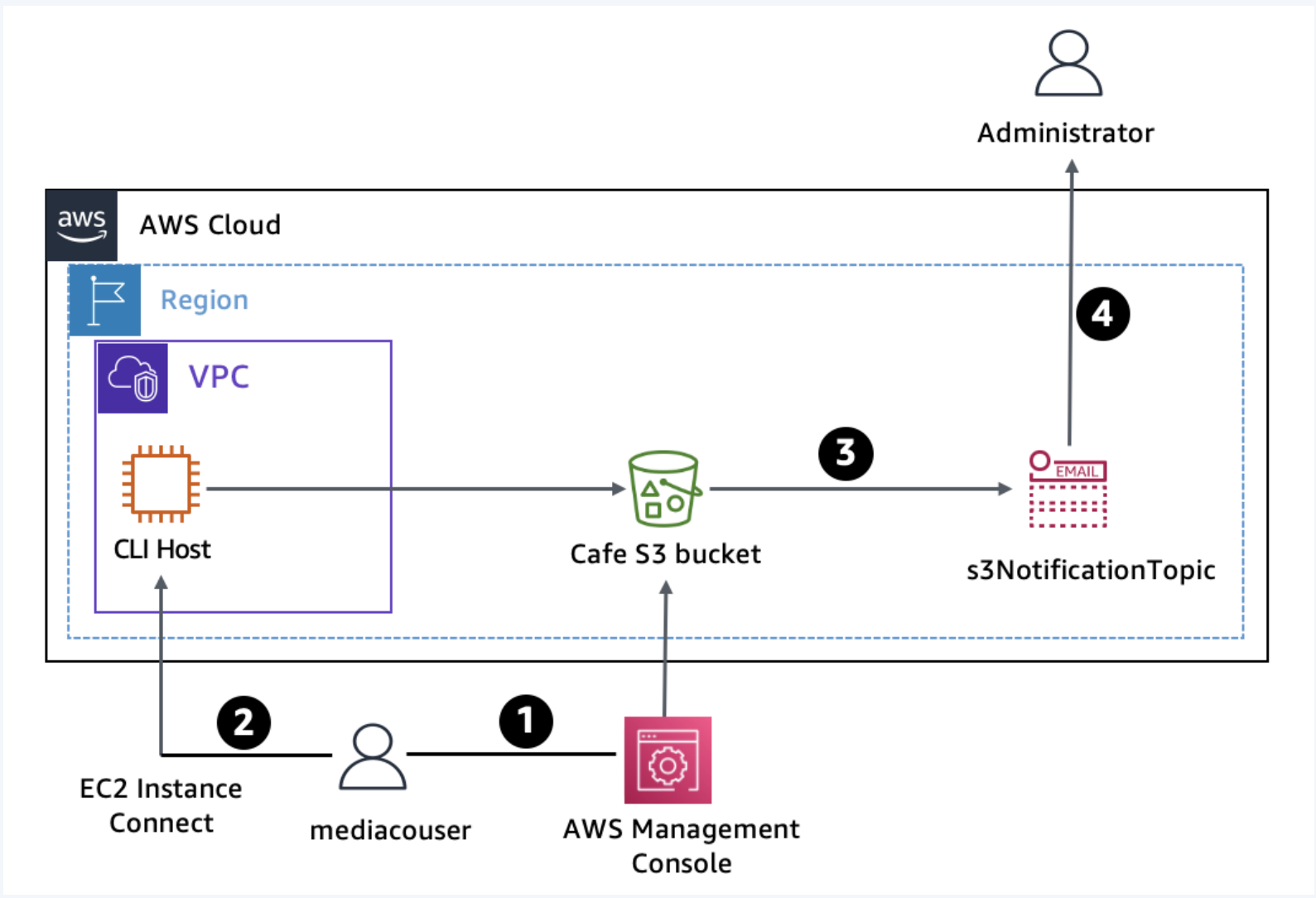
SWIPE

Tarea 01

Interactuando con Amazon S3

Los objetivos son:

- Utilice los comandos de la CLI de AWS s3api y s3 para crear y configurar un bucket de S3.
- Verificar los permisos de escritura de un usuario en un bucket de S3.
- Configurar la notificación de eventos en un bucket de S3.



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Tarea 01

Empezamos creando el bucket en AWS CLI:

```
[ec2-user@ip-10-200-0-171 ~]$ aws configure
AWS Access Key ID [****************Czy0]: AKIA6ODU5F3TU4UOMI5H
AWS Secret Access Key [****************MI5H]: 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
Default region name [us-west-2]: us-west-2
Default output format [json]: json
[ec2-user@ip-10-200-0-171 ~]$ aws s3 mb s3://cafe-mrvlab2303 --region 'us-west-2'
make_bucket: cafe-mrvlab2303
[ec2-user@ip-10-200-0-171 ~]$
```

Y cargamos las imágenes en este:

```
[ec2-user@ip-10-200-0-171 ~]$ aws s3 sync ~/initial-images/ s3://cafe-mrvlab2303/images
upload: initial-images/Donuts.jpg to s3://cafe-mrvlab2303/images/Donuts.jpg
upload: initial-images/Cup-of-Hot-Chocolate.jpg to s3://cafe-mrvlab2303/images/Cup-of-Hot-Chocolate.jpg
upload: initial-images/Strawberry-Tarts.jpg to s3://cafe-mrvlab2303/images/Strawberry-Tarts.jpg
[ec2-user@ip-10-200-0-171 ~]$ aws s3 ls s3://cafe-mrvlab2303/images/ --human-readable --summarize
2024-03-07 00:09:31  308.7 KiB Cup-of-Hot-Chocolate.jpg
2024-03-07 00:09:31  371.8 KiB Donuts.jpg
2024-03-07 00:09:31  468.0 KiB Strawberry-Tarts.jpg

Total Objects: 3
   Total Size: 1.1 MiB
[ec2-user@ip-10-200-0-171 ~]$
```

Haciendo una revisión de las políticas asignadas al usuario *mediacouser* en AWS IAM:

IAMUserChangePassword — AWS managed — Group mediaco

IAMUserChangePassword

Provides the ability for an IAM user to change their own password.

Copy JSON

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "iam:ChangePassword"
            ],
            "Resource": [
                "arn:aws:iam::*:user/${aws:username}"
            ]
        },
        {
            "Effect": "Allow",
            "Action": [
                "iam:GetAccountPasswordPolicy"
            ],
            "Resource": "*"
        }
    ]
}
```

mediaCoPolicy — Customer inline — Group mediaco

mediaCoPolicy

Copy JSON | Edit

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Action": [
                "s3:ListAllMyBuckets",
                "s3:GetBucketLocation"
            ],
            "Resource": [
                "arn:aws:s3:::*"
            ],
            "Effect": "Allow",
            "Sid": "AllowGroupToSeeBucketListInTheConsole"
        },
        {
            "Action": [
                "s3:ListBucket"
            ],
            "Resource": [
                "arn:aws:s3:::cafe-*",
```

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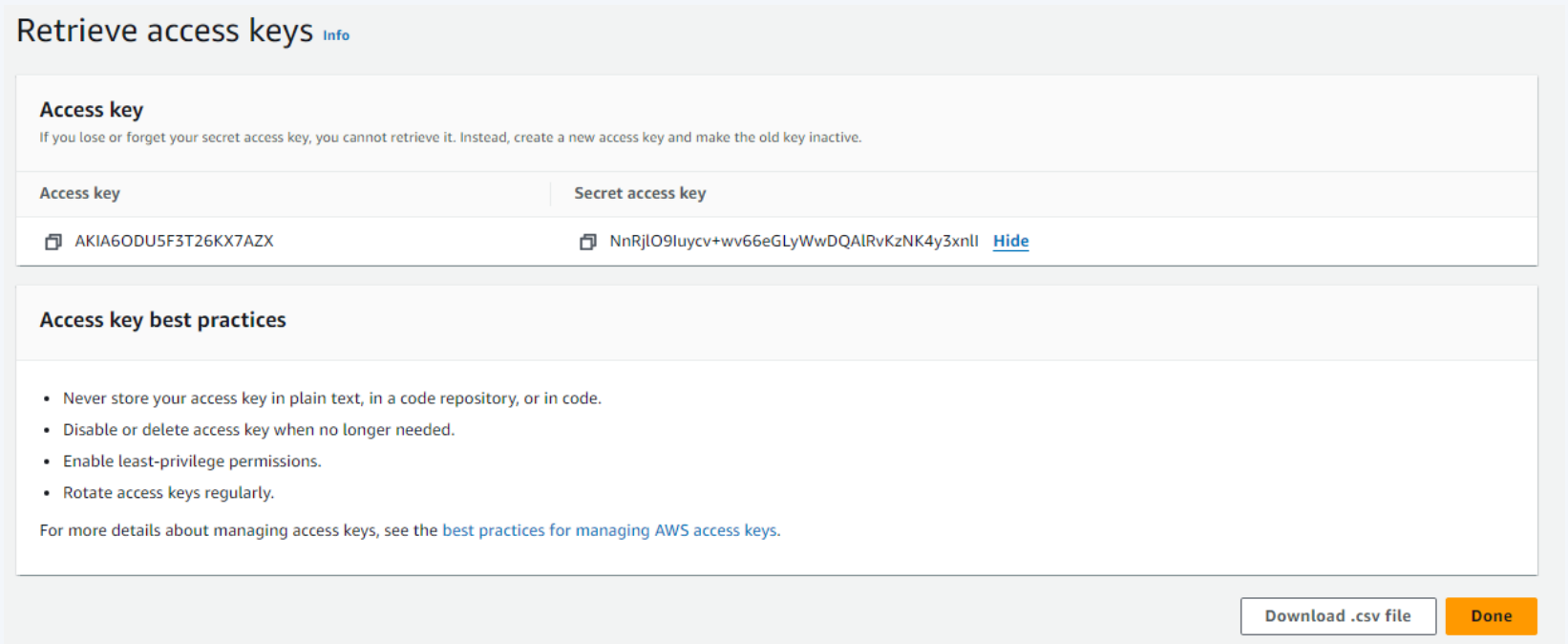
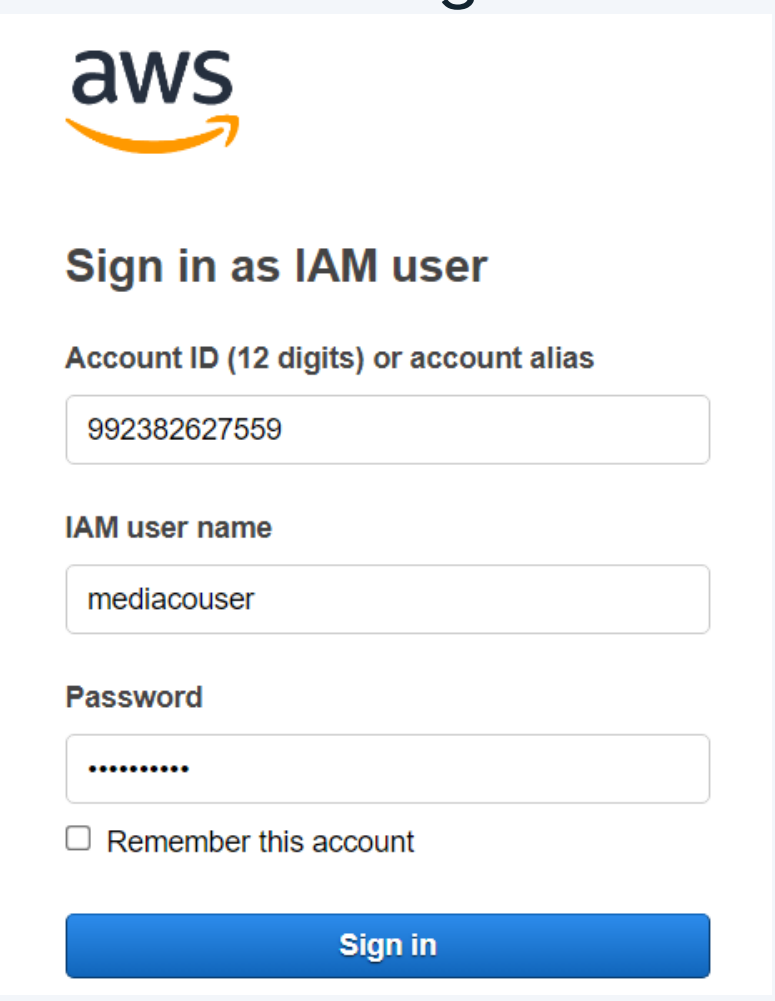
Tarea 01

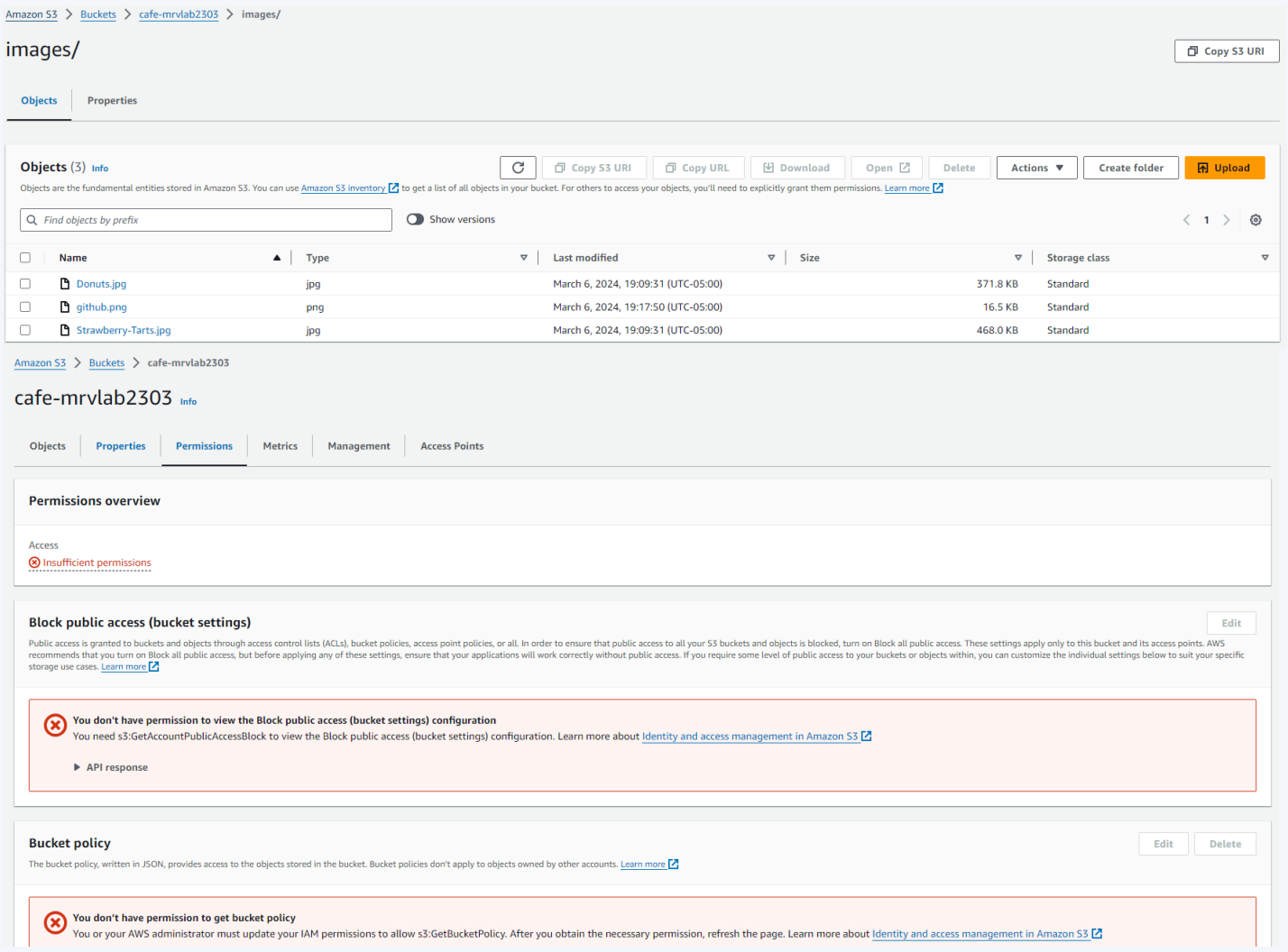
También, creamos un access/secret key a este usuario:



Nos logeamos como dicho usuario, para probar los permisos



Podemos cargar y eliminar objetos, pero no alterar los permisos del bucket



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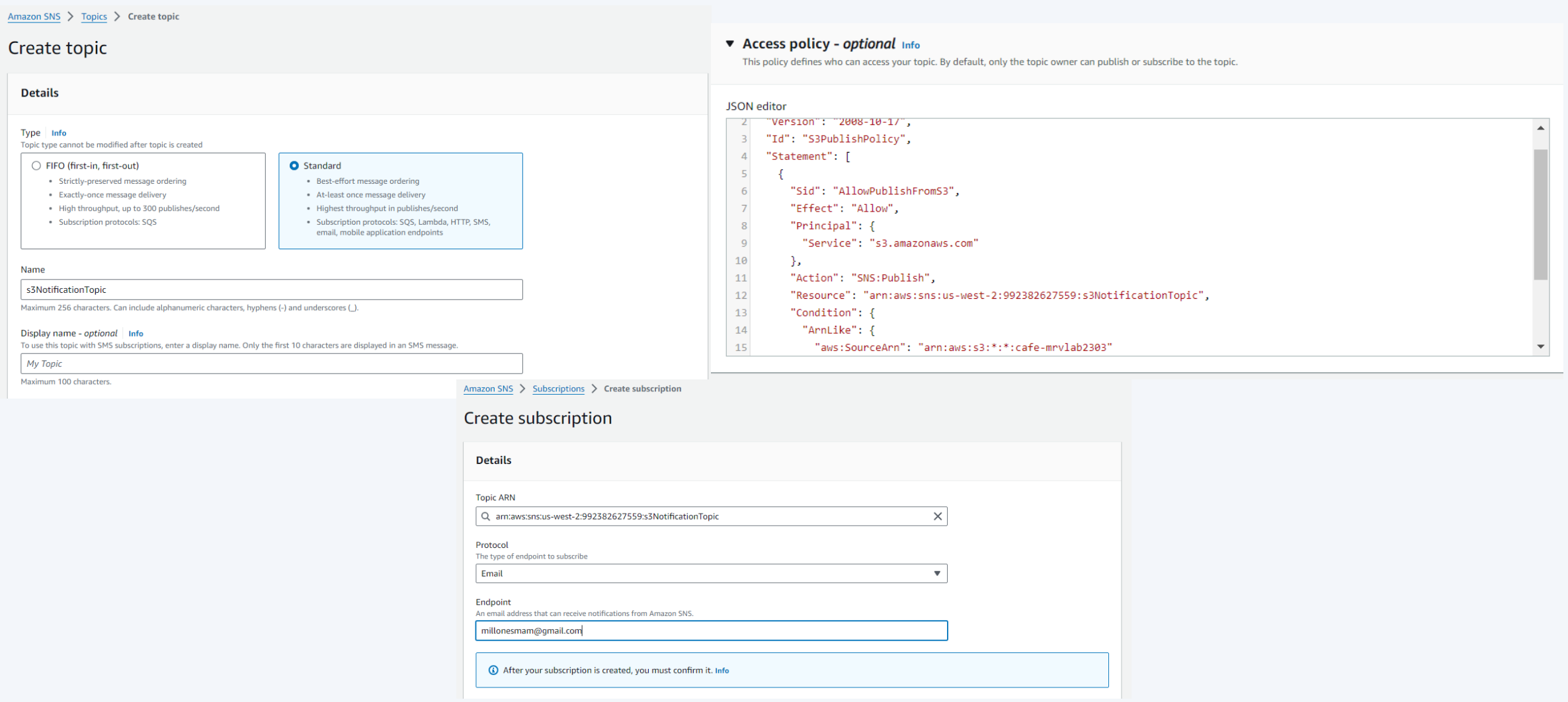
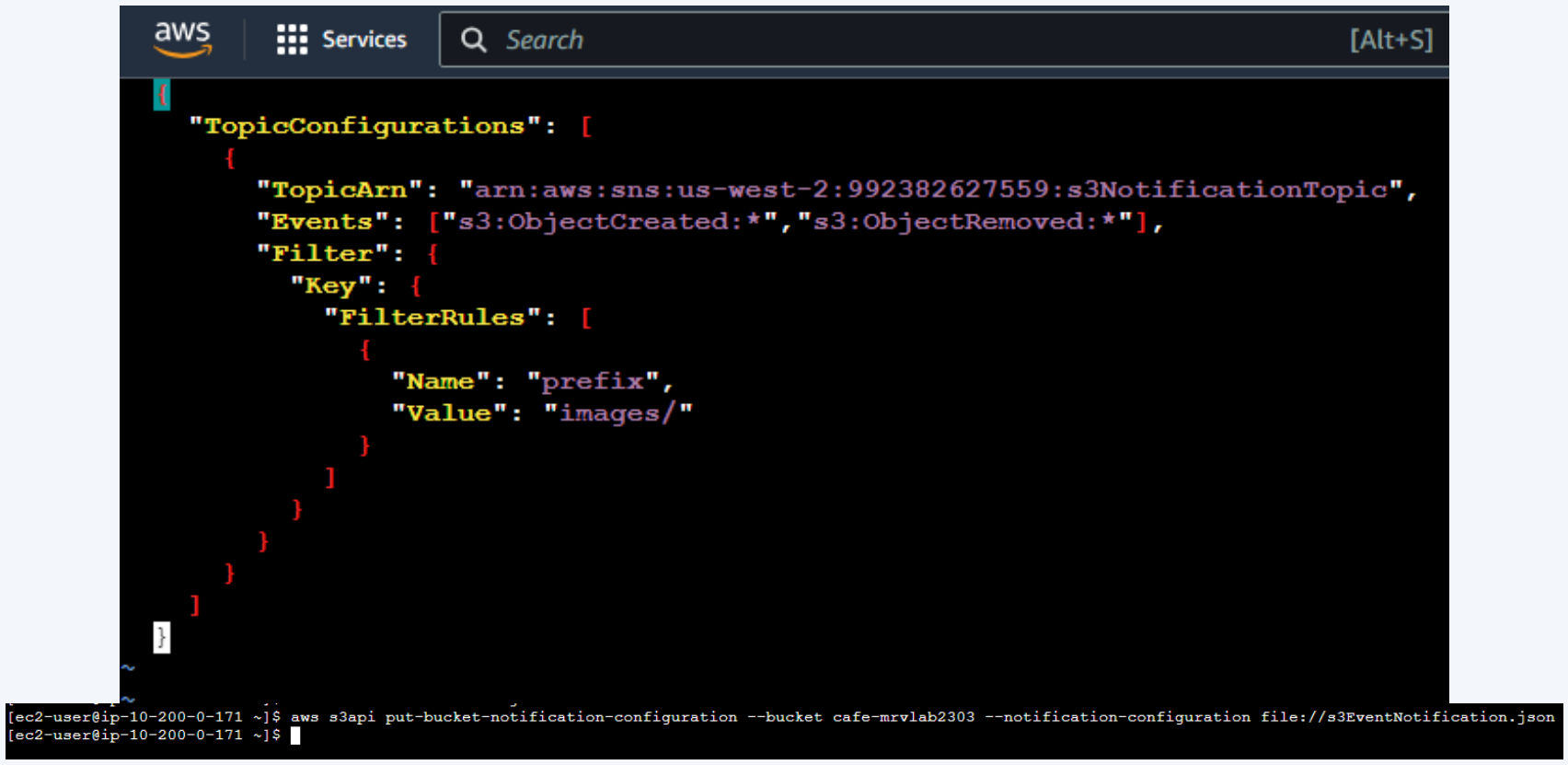
Ahora, vamos a configurar la notificación según algún evento en el bucket de S3



Cada que se cree o elimine un objeto -> evento



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Tarea 01

Ahora hacemos el test:

```
[ec2-user@ip-10-200-0-171 ~]$ aws s3api put-object --bucket cafe-mrvlab2303 --key images/Caramel-Delight.jpg --body ~/new-images/Caramel-Delight.jpg
{
    "ETag": "\"31ac30da619244b0ce786f106e4f3df7\"",
    "ServerSideEncryption": "AES256"
}

[ec2-user@ip-10-200-0-171 ~]$
[ec2-user@ip-10-200-0-171 ~]$ aws s3api put-object --bucket cafe-mrvlab2303 --key images/Caramel-Delight.jpg --body ~/new-images/Caramel-Delight.jpg
{
    "ETag": "\"31ac30da619244b0ce786f106e4f3df7\"",
    "ServerSideEncryption": "AES256"
}
[ec2-user@ip-10-200-0-171 ~]$ aws s3api get-object --bucket cafe-mrvlab2303 --key images/Donuts.jpg Donuts.jpg
{
    "AcceptRanges": "bytes",
    "ContentType": "image/jpeg",
    "LastModified": "Thu, 07 Mar 2024 00:09:31 GMT",
    "ContentLength": 380753,
    "ETag": "\"405b0bcc53cb5ab713c967dc1422b4f4\"",
    "ServerSideEncryption": "AES256",
    "Metadata": {}
}
[ec2-user@ip-10-200-0-171 ~]$ aws s3api delete-object --bucket cafe-mrvlab2303 --key images/Strawberry-Tarts.jpg
[ec2-user@ip-10-200-0-171 ~]$
```

cuando se crea un objeto

Amazon S3 Notification Recibidos ×

AWS Notifications <no-reply@sns.amazonaws.com> 19:39 (hace 0 minutos)

para mí

{"Records":[{"eventVersion":"2.1","eventSource":"aws:s3","awsRegion":"us-west-2","eventTime":"2024-03-07T00:38:58.708Z","eventName":"ObjectCreated:Put","userIdentity":{"principalId":"AWS:AIDA6ODU5F3T7JOBFOWFB"},"requestParameters":{"sourceIPAddress":"34.209.225.88"},"responseElements":{"x-amz-request-id":"QS3E0R7DFCSAVPN3","x-amz-id-2":"/UvZ0ObRXRALpau2LKVDCgObcnt9iYoV1PoJqUgW0PUtoPKQEFZ19f4nADZ6UdRh4phWhYqbaNpRPCTCpWolJDhG6+ro5Nnv"},"s3":{"s3SchemaVersion":"1.0","configurationId":"OTA1MmRiYTItMTlkNy00ZWMzLTkyMTQtMjU3MmM3N2EzY2Ri","bucket":{"name":"cafe-mrvlab2303","ownerIdentity":{"principalId":"A1WN2COV4X0P5F"},"arn":"arn:aws:s3:::cafe-mrvlab2303"},"object":{"key":"images/Caramel-Delight.jpg","size":239148,"eTag":"31ac30da619244b0ce786f106e4f3df7","sequencer":"0065E90CA2A7465ED5"}}}]}

--
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:
https://sns.us-west-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-west-2:992382627559:s3NotificationTopic:a18fa0d1-2364-445e-965c-f20789fd95b2&Endpoint=millonesmam@gmail.com

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at https://aws.amazon.com/support

cuando se eliminó

Amazon S3 Notification Recibidos ×

AWS Notifications 19:39 (hace 0 minutos)

{"Records":[{"eventVersion":"2.1","eventSource":"aws:s3","awsRegion":"us-west-2","eventTime":"2024-03-07T00:38:58.708Z","eventName":"ObjectCreated:Put","userIde

AWS Notifications <no-reply@sns.amazonaws.com> 19:39 (hace 0 minutos)

para mí

{"Records":[{"eventVersion":"2.1","eventSource":"aws:s3","awsRegion":"us-west-2","eventTime":"2024-03-07T00:39:24.938Z","eventName":"ObjectRemoved:Delete","userIdentity":{"principalId":"AWS:AIDA6ODU5F3T7JOBFOWFB"},"requestParameters":{"sourceIPAddress":"34.209.225.88"},"responseElements":{"x-amz-request-id":"ZS6DZTTEDWS92TMD","x-amz-id-2":"L6iH8Ywtg41EnmKEiJILpsXAiXJ8szVt0DJRfWXeSppQYczW/c2lG+0sGsbph5uR6tk/oxoBdpK/g4ecpv/EmoNDQUy535lm"},"s3":{"s3SchemaVersion":"1.0","configurationId":"OTA1MmRiYTItMTlkNy00ZWMzLTkyMTQtMjU3MmM3N2EzY2Ri","bucket":{"name":"cafe-mrvlab2303","ownerIdentity":{"principalId":"A1WN2COV4X0P5F"},"arn":"arn:aws:s3:::cafe-mrvlab2303"},"object":{"key":"images/Strawberry-Tarts.jpg","sequencer":"0065E90CBCE7E00094"}}}]}

```
[ec2-user@ip-10-200-0-171 ~]$ aws s3api put-object-acl --bucket cafe-mrvlab2303 --key images/Donuts.jpg --acl public-read

An error occurred (AccessDenied) when calling the PutObjectAcl operation: Access Denied
[ec2-user@ip-10-200-0-171 ~]$
```

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