

# AWS Command Line Interface

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Taller Semestral - 2021-2  
Introducción a Cloud Computing con AWS

Departamento de Informática  
Universidad Técnica Federico Santa María

17 de noviembre de 2021 - v1.0

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# Índice

1 Descripción

2 Configuración

3 Uso



# Descripción

- Herramienta única para manejar los servicios de AWS desde la línea de comando, permitiendo la automatización de su uso mediante procedimientos



# Credenciales

PermissionsGroupsTagsSecurity credentialsAccess Advisor

Sign-in credentials

Summary

• Console sign-in link <https://788416926207.signin.aws.amazon.com/console>

Console passwordEnabled (last signed in Today) | [Manage](#)

Assigned MFA deviceNot assigned | [Manage](#)

Signing certificatesNone

Access keys

Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time.

For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation.  
If you lose or forget your secret key, you cannot retrieve it. Instead, create a new access key and make the old key inactive. [Learn more](#)

Create access key

Access key ID	Created	Last used	Status
No results			

SSH keys for AWS CodeCommit

Use SSH public keys to authenticate access to AWS CodeCommit repositories. [Learn more](#)

Upload SSH public key

SSH key ID	Uploaded	Status
No results		

HTTPS Git credentials for AWS CodeCommit

Generate a user name and password you can use to authenticate HTTPS connections to AWS CodeCommit repositories. You can generate and store up to 2 sets of credentials. [Learn more](#)

Generate credentials

No credentials have been generated.

Credentials for Amazon Keyspaces (for Apache Cassandra)

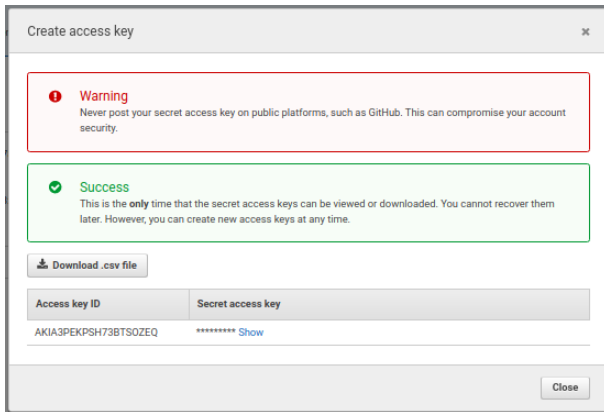
Generate a user name and password you can use to authenticate to Amazon Keyspaces. You can generate and store up to 2 sets of credentials for Amazon Keyspaces. [Learn more](#)

Generate credentials

No credentials have been generated.

Consola IAM para el usuario seleccionado

# Credenciales



Consola IAM para el usuario seleccionado

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Create access key

Access key ID	Created	Last used	Status
AKIA3PEKPSH73BTSQZEQ	2021-11-17 17:25 ADT	N/A	Active   <a href="#">Make inactive</a>

SSH keys for AWS CodeCommit

Use SSH public keys to authenticate access to AWS CodeCommit repositories. [Learn more](#)

Upload SSH public key

SSH key ID	Uploaded	Status
No results		

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Consola IAM para el usuario seleccionado



# Instalación

[https://docs.aws.amazon.com/es\\_es/cli/latest/userguide/  
install-cliv2.html](https://docs.aws.amazon.com/es_es/cli/latest/userguide/install-cliv2.html)



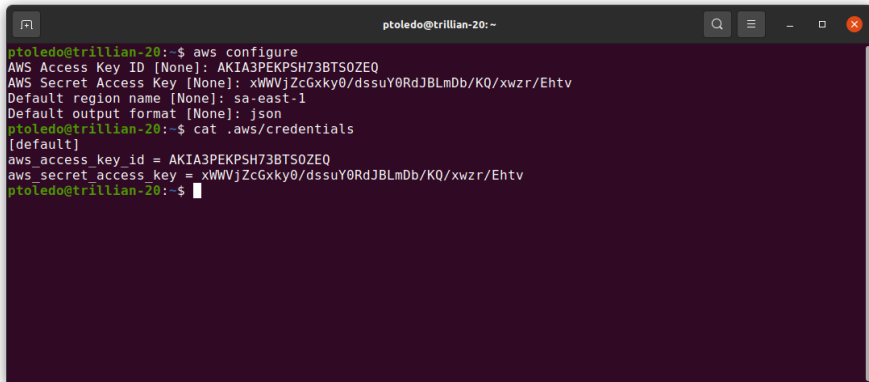
# Instalación

```
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"  
unzip awscliv2.zip  
sudo ./aws/install
```





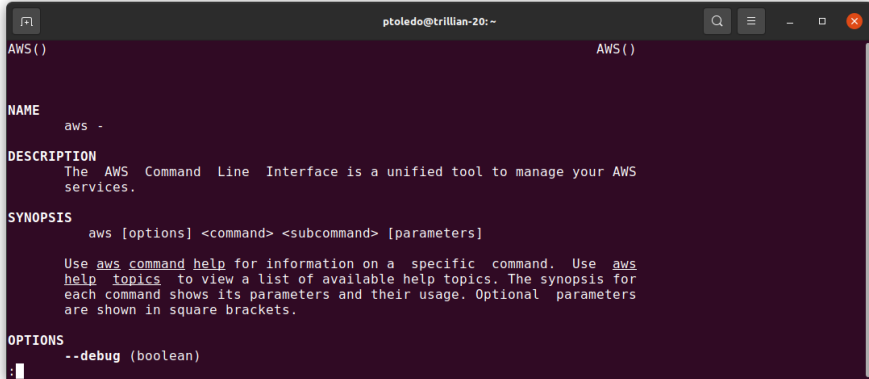
# Configuración de credenciales



```
ptoledo@trillian-20: ~  
ptoledo@trillian-20:~$ aws configure  
AWS Access Key ID [None]: AKIA3PEKPSH73BTS0ZEQ  
AWS Secret Access Key [None]: xWwVjZcGxky0/dssuY0RdJBLmDb/KQ/xwzr/Ehtv  
Default region name [None]: sa-east-1  
Default output format [None]: json  
ptoledo@trillian-20:~$ cat .aws/credentials  
[default]  
aws_access_key_id = AKIA3PEKPSH73BTS0ZEQ  
aws_secret_access_key = xWwVjZcGxky0/dssuY0RdJBLmDb/KQ/xwzr/Ehtv  
ptoledo@trillian-20:~$
```

Consola

# Ayuda General

A terminal window with a dark purple background and white text. The window title is 'ptoledo@trillian-20: ~'. The output of the 'aws help' command is displayed, showing sections for NAME, DESCRIPTION, SYNOPSIS, and OPTIONS. The text is as follows:

```
AWS()
AWS()

NAME
    aws -

DESCRIPTION
    The AWS Command Line Interface is a unified tool to manage your AWS
    services.

SYNOPSIS
    aws [options] <command> <subcommand> [parameters]

    Use aws command help for information on a specific command. Use aws
    help topics to view a list of available help topics. The synopsis for
    each command shows its parameters and their usage. Optional parameters
    are shown in square brackets.

OPTIONS
    --debug (boolean)
: |
```

`aws help (man aws)`

# Ayuda Producto

```
ptoledo@trillian-20: ~  
EC2() EC2()  
  
NAME  
    ec2 -  
  
DESCRIPTION  
    Amazon Elastic Compute Cloud (Amazon EC2) provides secure and resizable  
    computing capacity in the AWS Cloud. Using Amazon EC2 eliminates the  
    need to invest in hardware up front, so you can develop and deploy ap-  
    plications faster. Amazon Virtual Private Cloud (Amazon VPC) enables  
    you to provision a logically isolated section of the AWS Cloud where  
    you can launch AWS resources in a virtual network that you've defined.  
    Amazon Elastic Block Store (Amazon EBS) provides block level storage  
    volumes for use with EC2 instances. EBS volumes are highly available  
    and reliable storage volumes that can be attached to any running in-  
    stance and used like a hard drive.  
  
    To learn more, see the following resources:  
:  
:
```

`aws ec2 help`



# Buckets

## Listar



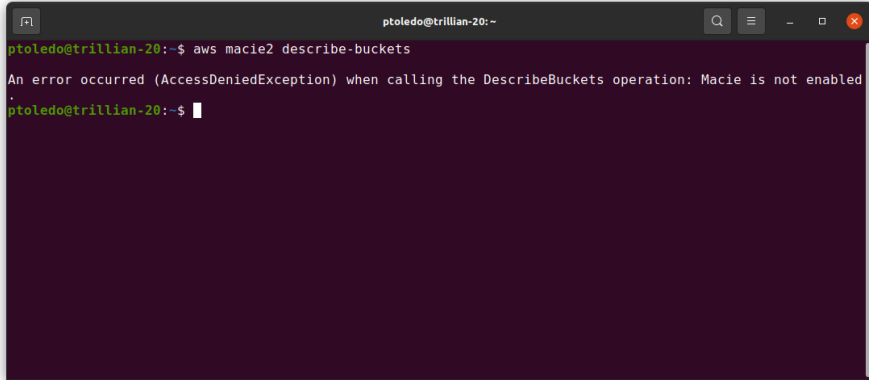
A terminal window titled 'ptoledo@trillian-20: ~' with standard window controls. The terminal shows the command 'aws s3 ls' and its output, which lists three S3 buckets with their creation dates and names. The prompt 'ptoledo@trillian-20:~\$' is followed by a cursor.

```
ptoledo@trillian-20:~$ aws s3 ls
2021-11-08 15:48:39 ecomfest.link
2021-11-12 17:46:15 ejemploentrega5
2021-11-01 00:39:59 www.exampledomain.cloud
ptoledo@trillian-20:~$
```

`aws s3 ls`

# Buckets

## Describir

A terminal window with a dark purple background. The title bar shows 'ptoledo@trillian-20: ~'. The prompt is 'ptoledo@trillian-20:~\$'. The command 'aws macie2 describe-buckets' has been entered. The output is an error message: 'An error occurred (AccessDeniedException) when calling the DescribeBuckets operation: Macie is not enabled'. The prompt is now 'ptoledo@trillian-20:~\$' with a cursor.

```
ptoledo@trillian-20:~$ aws macie2 describe-buckets
An error occurred (AccessDeniedException) when calling the DescribeBuckets operation: Macie is not enabled
ptoledo@trillian-20:~$
```

`aws macie2 describe-buckets`

# Buckets

## Describir (Habilitar Macie)

*<https://docs.aws.amazon.com/macie/latest/user/getting-started.html>*



# Buckets

## Describir

```
ptoledo@trillian-20: ~  
{  
  "buckets": [  
    {  
      "accountId": "788416926207",  
      "allowsUnencryptedObjectUploads": "TRUE",  
      "bucketArn": "arn:aws:s3:::ecomfest.link",  
      "bucketCreatedAt": "2021-11-08T18:48:39+00:00",  
      "bucketName": "ecomfest.link",  
      "classifiableObjectCount": 1,  
      "classifiableSizeInBytes": 483,  
      "jobDetails": {  
        "isDefinedInJob": "FALSE",  
        "isMonitoredByJob": "FALSE"  
      },  
      "lastUpdated": "2021-11-17T20:55:52.758000+00:00",  
      "objectCount": 9,  
      "objectCountByEncryptionType": {  
        "customerManaged": 0,  
        "kmsManaged": 0,  
        "s3Managed": 0,  
        "unencrypted": 9,  
      }  
    }  
  ]  
}
```

aws macie2 describe-buckets

# Buckets

## Describir

```
ptoledo@trillian-20: ~  
{  
  "buckets": [  
    {  
      "accountId": "788416926207",  
      "allowsUnencryptedObjectUploads": "TRUE",  
      "bucketArn": "arn:aws:s3:::www.exampledomain.cloud",  
      "bucketCreatedAt": "2021-11-01T03:39:59+00:00",  
      "bucketName": "www.exampledomain.cloud",  
      "classifiableObjectCount": 1,  
      "classifiableSizeInBytes": 6465,  
      "jobDetails": {  
        "isDefinedInJob": "FALSE",  
        "isMonitoredByJob": "FALSE"  
      },  
      "lastUpdated": "2021-11-17T21:00:35.429000+00:00",  
      "objectCount": 2,  
      "objectCountByEncryptionType": {  
        "customerManaged": 0,  
        "kmsManaged": 0,  
        "s3Managed": 0,  
        "unencrypted": 2,  
      }  
    }  
  ]  
}
```

```
aws macie2 describe-buckets --criteria  
'{"bucketName":{"prefix":"www.exampledomain"}}'
```





¿Preguntas?

Fotografía:  
<https://unsplash.com/@6heinz3r>

Tema de la presentación basado en:  
<https://gitlab.com/matteodelabre/beamertheme-bruno>

