

Screenshot of the AWS VPC Create Security Group page.

Basic details

Security group name: `jaison-labrador-workshop2`
Description: `jaison-labrador-workshop2`
VPC: `vpc-049d9ac1fcfb02436`

Inbound rules

Type	Protocol	Port range	Source	Description - optional
MySQL/Aurora	TCP	3306	Custom (sg-0134bfae8cab0165e)	rules-jaison-labrador-workshop2

Outbound rules

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Custom (0.0.0.0/0)	

Tags - optional

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
<code>jaison-labrador-workshop2</code>	<code>Enter value</code>

You can add up to 49 more tags.

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AWS access portal

SecurityGroup | VPC Console

Instances | EC2 us-east-1

Ajustes

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:groupId=sg-0f062bae0b81df15f

N. Virginia

bootcamp-cloud-modulo-2/jaison-labrador

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

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Client VPN endpoints

AWS Verified Access

Verified Access instances

New

CloudShell Feedback

Security group (sg-0f062bae0b81df15f) was created successfully

Details

VPC > Security Groups > sg-0f062bae0b81df15f - jaison-labrador-workshop2-RDS

sg-0f062bae0b81df15f - jaison-labrador-workshop2-RDS

Actions

Details

Security group name jaision-labrador-workshop2-RDS	Security group ID sg-0f062bae0b81df15f	Description jaision-labrador-workshop2-RDS	VPC ID vpc-049d9ac1fcfb02436
Owner 590183865524	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules | Outbound rules | Tags

Inbound rules (1/1)

Name	Security group rule...	IP version	Type	Protocol	Port range	Source
jaison-labrador-wor...	sgr-07b58bc89a0719d7f	-	MySQL/Aurora	TCP	3306	sg-0134bfaf

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AWS access portal

Create database - RDS Management

Databases - RDS Management

Ajustes

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

120%

N. Virginia

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S3 EC2 Billing and Cost Management IAM

RDS > Create database

Create database Info

Choose a database creation method

Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type Info

Aurora (MySQL Compatible) 

Aurora (PostgreSQL Compatible) 

MySQL 

MariaDB 

PostgreSQL 

Oracle 

Microsoft SQL Server 

IBM Db2 

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AWS access portal X Create database - RDS Management X Databases - RDS Management X Ajustes X https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance: 120% N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

Services Search [Option+S] N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

S3 EC2 Billing and Cost Management IAM

Edition MySQL Community

Engine version Info View the engine versions that support the following database features.

Hide filters

Show versions that support the Multi-AZ DB cluster Info Create a Multi-AZ DB cluster with one primary DB instance and two readable standby DB instances. Multi-AZ DB clusters provide up to 2x faster transaction commit latency and automatic failover in typically under 35 seconds.

Show versions that support the Amazon RDS Optimized Writes Info Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Engine Version MySQL 8.0.35

Enable RDS Extended Support Info Amazon RDS Extended Support is a paid offering. By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the [RDS for MySQL documentation](#).

Templates Choose a sample template to meet your use case.

Production Use defaults for high availability and fast, consistent performance.

Dev/Test This instance is intended for development use outside of a production environment.

Free tier Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. Info

Availability and durability

Deployment options Info The deployment options below are limited to those supported by the engine you selected above.

Single DB Instance (not supported for Multi-AZ DB cluster snapshot) Creates a single DB instance with no standby DB instances.

Multi-AZ DB Instance (not supported for Multi-AZ DB cluster snapshot) Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

Multi-AZ DB Cluster

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Screenshot of the AWS RDS Management console showing the creation of a new DB instance.

DB instance identifier: awsdb-jaisonlabrador

Credentials Settings:

- Master username:** awouserjds
- Credentials management:** Self managed (selected)
- Auto generate password:** Unselected

Master password: [REDACTED]

Password strength: Very strong

Confirm master password: [REDACTED]

Instance configuration:

- DB instance class:** Hide filters (selected)
- Show instance classes that support Amazon RDS Optimized Writes:** Unselected

Bottom navigation bar: CloudShell, Feedback, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences

The screenshot shows the AWS RDS Management console with the URL <https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance>. The page is titled "Create database" and shows the "Storage" configuration section.

Storage Type: General Purpose SSD (gp3)

Allocated storage: 20 GiB

Advanced settings: Baseline IOPS of 3,000 IOPS and storage throughput of 125 MiBps are included for allocated storage less than 400 GiB.

Storage autoscaling:

- Enable storage autoscaling:** Checked
- Maximum storage threshold:** 1000 GiB

At the bottom, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

AWS Services Search [Option+S] Databases - RDS Management Ajustes N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

Virtual private cloud (VPC) [Info](#)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-049d9ac1fcfb02436)
6 Subnets, 6 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

[After a database is created, you can't change its VPC.](#)

DB subnet group [Info](#)

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

default-vpc-049d9ac1fcfb02436
6 Subnets, 6 Availability Zones

Public access [Info](#)

Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

Existing VPC security groups

Choose one or more options

jaison-labrador-workshop2-RDS X

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This screenshot shows the 'Create database' wizard in the AWS RDS Management console. The 'Connectivity' step is active. It asks if a connection to a compute resource should be set up, with the 'Don't connect to an EC2 compute resource' option selected. It also shows the 'Virtual private cloud (VPC)' section where the 'Default VPC' is chosen. The 'Public access' section has 'No' selected, and the 'VPC security group (firewall)' section shows 'Choose existing' selected with 'jaison-labrador-workshop2-RDS' listed. The bottom of the screen includes standard AWS navigation links like CloudShell, Feedback, and cookie preferences.

The screenshot shows the AWS RDS Management console with the URL <https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance>. The page is titled "Create database - RDS Management". The navigation bar includes "AWS Services", "Search [Option+S]", "N. Virginia", and "bootcamp-cloud-modulo-2/jaison-labrador". The main content area is titled "Create database" and shows the following steps:

- Step 1: Availability Zone**
A dropdown menu titled "Availability Zone" with "No preference" selected.
- RDS Proxy**
A description of RDS Proxy and a checkbox for "Create an RDS Proxy".
 - If checked, it creates an IAM role and a Secrets Manager secret for the proxy, with additional costs.
- Certificate authority - optional**
A description of a server certificate and a dropdown menu showing "rds-ca-rsa2048-g1 (default)" with an expiry date of "May 25, 2061".
 - If no certificate is selected, RDS chooses one for you.
- Additional configuration**
A section for "Database port" set to "3306".
- Tags - optional**
A section for adding key-value pairs. One tag is listed: "name" with value "jaisonlabradorwstwo". A button "Add new tag" is available, and a note says "You can add up to 49 more tags."
- Database authentication**
A section for "Database authentication options".
 - Password authentication** (selected): "Authenticates using database passwords."
 - Password and IAM database authentication**: "Authenticates using the database password and user credentials through AWS IAM users and roles."
 - Password and Kerberos authentication**: "Authenticates using the database password and user credentials through Kerberos."

At the bottom, there are links for "CloudShell", "Feedback", "© 2024, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences".

The screenshot shows the AWS RDS Management console with the 'Create database' wizard open. The browser tab is titled 'Create database - RDS Management' and the URL is <https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance>. The page is in Spanish, indicated by the 'Ajustes' button.

Monitoring

Enable Enhanced Monitoring
Enabling Enhanced Monitoring metrics are useful when you want to see how different processes or threads use the CPU.

Additional configuration

Database options

Initial database name: [Info](#) immersiondayjls
If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group: [Info](#) default.mysql8.0

Option group: [Info](#) default:mysql-8-0

Backup

Enable automated backups
Creates a point-in-time snapshot of your database

Warning: Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details [here](#).

Backup retention period: [Info](#) 7 days

Backup window: [Info](#)
The daily time range (in UTC) during which RDS takes automated backups.
 Choose a window
 No preference

Copy tags to snapshots

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AWS access portal X Create database - RDS Management X Databases - RDS Management X Ajustes X https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance: 120% N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

aws Services Search [Option+S] N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

S3 EC2 Billing and Cost Management IAM

Backup replication [Info](#)

Enable replication in another AWS Region
Enabling replication automatically creates backups of your DB instance in the selected Region, for disaster recovery, in addition to the current Region.

Encryption

Enable encryption
Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. [Info](#)

AWS KMS key [Info](#)
(default) aws/rds

Account
590183865524

KMS key ID
32423508-c7f7-4d41-9b34-5f10cdac0c21

Log exports
Select the log types to publish to Amazon CloudWatch Logs

Audit log
 Error log
 General log
 Slow query log

IAM role
The following service-linked role is used for publishing logs to CloudWatch Logs.
RDS service-linked role

Maintenance

Auto minor version upgrade [Info](#)

Enable auto minor version upgrade
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

Maintenance window [Info](#)
Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

Choose a window
 No preference

Deletion protection

Enable deletion protection

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The screenshot shows the AWS RDS Management interface for creating a new database instance. The top navigation bar includes tabs for 'AWS access portal', 'Create database - RDS Management' (which is active), 'Databases - RDS Management' (disabled), and 'Ajustes' (disabled). The URL is https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:.

The main content area is titled 'Create database' and shows the following configuration steps:

- IAM role**: A service-linked role is used for publishing logs to CloudWatch Logs.
- Maintenance**:
 - Auto minor version upgrade [Info](#)
 - Enable auto minor version upgrade**
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.
- Maintenance window** [Info](#): Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.
 - Choose a window
 - No preference
- Deletion protection**:
 - Enable deletion protection**
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.
- Estimated monthly costs**:

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

 - 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
 - 20 GB of General Purpose Storage (SSD).
 - 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application usage exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page](#).
- Important note**: You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

At the bottom right are 'Cancel' and 'Create database' buttons. The footer includes links for CloudShell, Feedback, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

AWS access portal

Databases - RDS Management

Databases - RDS Management

Ajustes

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:

120%

N. Virginia

bootcamp-cloud-modulo-2/jaison-labrador

Amazon RDS

Services

S3 EC2 Billing and Cost Management IAM

Search [Option+S]

Creating database awsdbs-jaisonlabrador

Your database might take a few minutes to launch. You can use settings from awsdbs-jaisonlabrador to simplify configuration of suggested database add-ons while we finish creating your DB for you.

View credential details

Introducing Aurora I/O-Optimized

Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (10)

Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size
awsdbs-camilogarcia	Available	Instance	MySQL Community	us-east-1d	db.t3.2
awsdbs-erik	Available	Instance	MySQL Community	us-east-1f	db.t4.2
awsdbs-jaisonlabrador	Creating	Instance	MySQL Community	-	db.t3.2
awsdbs-jhostyn	Available	Instance	MySQL Community	us-east-1c	db.t3.2
awsdbs-miguelmartinez	Available	Instance	MySQL Community	us-east-1c	db.t3.2
awsdbs-staniek	Available	Instance	MySQL Community	us-east-1b	db.t3.2
awsdbscristina	Available	Instance	MySQL Community	us-east-1b	db.t3.2
awsdbsjsg	Available	Instance	MySQL Community	us-east-1b	db.t4.2
awsdbsmiguelacuna	Available	Instance	MySQL Community	us-east-1b	db.t3.2
instanciadbjeronimo	Available	Instance	MySQL Community	us-east-1b	db.t3.2

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AWS access portal

Databases - RDS Management

Databases - RDS Management

Ajustes

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:

N. Virginia

bootcamp-cloud-module-2/jaison-labrador

Amazon RDS

Dashboard

Databases

Query Editor

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved Instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Zero-ETL Integrations New

Events

Event subscriptions

Recommendations

Certificate update

Creating database awsdb-jaisonlabrador

Your database might take a few minutes to launch. You can use settings from awsdb-jaisonlabrador to simplify configuration of suggested database add-ons while we finish creating your DB for you.

View credential details

Introducing Aurora I/O-Optimized

Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades.

Connection details to your database awsdb-jaisonlabrador

This is the only time you can view this password. Copy and save the password for your reference. If you lose the password, you must modify your database to change it. You can use a SQL client application or utility to connect to your database.

Learn about connecting to your database

Master username: awsuserjdl

Master password: workshop2-jaison-labrador

Create database

Close

	awsdb-jhostyn	Available	Instance	MySQL Community	us-east-1c	db.t3.0
○	awsdb-miguelmartinez	Available	Instance	MySQL Community	us-east-1c	db.t3.0
○	awsdb-staniek	Available	Instance	MySQL Community	us-east-1b	db.t3.0
○	awsdbcristina	Available	Instance	MySQL Community	us-east-1b	db.t3.0
○	awsdbjcg	Available	Instance	MySQL Community	us-east-1b	db.t4.0
○	awsdbmiquelacuna	Available	Instance	MySQL Community	us-east-1b	db.t3.0
○	instanciadajeronimo	Available	Instance	MySQL Community	us-east-1b	db.t3.0

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Screenshot of the AWS Secrets Manager "Store a new secret" wizard, Step 1: Choose secret type.

The "Secret type" section shows the following options:

- Credentials for Amazon RDS database
- Credentials for Amazon DocumentDB database
- Credentials for Amazon Redshift data warehouse
- Credentials for other database
- Other type of secret API key, OAuth token, other.

The "Credentials" section contains the following fields:

- User name: awsuserjdis
- Password: workshop2-jaison-labrador
- Show password:

The "Encryption key" section shows the following:

- aws/secretsmanager
- Add new key

The "Database" section displays a list of available DB instances:

DB Instance	DB engine	Status	Creation date (UTC)
awldb-camilogarcia	mysql	available	September 19, 2024...
awldb-cristina	mysql	available	September 20, 2024...
awldb-erik	mysql	available	September 20, 2024...
awldb-jaisonlabrador	mysql	available	September 20, 2024...
awldb-jhostyn	mysql	available	September 20, 2024...
awldb-jsg	mysql	available	September 20, 2024...

Screenshot of the AWS Secrets Manager "Store a new secret" wizard.

The page title is "Configure secret".

Left sidebar navigation:

- Step 1: Choose secret type
- Step 2: Configure secret (selected)
- Step 3 - optional: Configure rotation
- Step 4: Review

Main content area:

Secret name and description

Secret name: mysecretjids

Description - optional: mysecret Jaison Labrador

Tags - optional

No tags associated with the secret.

Add

Resource permissions - optional

Add or edit a resource policy to access secrets across AWS accounts.

Edit permissions

Replicate secret - optional

Create read-only replicas of your secret in other Regions. Replica secrets incur a charge.

Buttons at the bottom:

- Cancel
- Previous
- Next

Page footer:

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Screenshot of the AWS Secrets Manager "Store a new secret" wizard, Step 3 - optional: Configure rotation.

The page title is "Configure rotation - optional".

Configure automatic rotation: Configure AWS Secrets Manager to rotate this secret automatically.

Automatic rotation

Rotation schedule: info

Schedule expression builder Schedule expression

Time unit: Hours 25

Window duration - optional: 4h

Enter the time in hours.

Rotate immediately when the secret is stored. The next rotation will begin on your schedule.

Rotation function: info

Create a rotation function Use a rotation function from your account

Lambda rotation function: Secrets Manager adds the prefix "SecretsManager" to your function name.

SecretsManager mysql-rotation-lambda

Function name is required. Rotation function name including prefix must be maximum 64 alphanumeric characters, hyphens, and underscores.

Rotation strategy: info

Single user: The user must have permission to update their password.

Alternating users: This strategy clones the initial user and stores both sets of credentials in one secret. One set of credentials is always valid. You must provide admin credentials in a separate secret.

Cancel Previous **Next**

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The screenshot shows the 'Review' step of creating a new secret in AWS Secrets Manager. The left sidebar lists steps: Step 1 (Choose secret type), Step 2 (Configure secret), Step 3 (optional Configure rotation), and Step 4 (Review). The main area is divided into four sections: Secret type, Secret configuration, Rotation schedule, and Rotation function.

Secret type

- Secret type: Amazon RDS database
- Encryption key: aws/secretsmanager

Secret configuration

- Secret name: mysecretjds
- Description: mysecret Jaison Labrador
- Tags: -
- Resource permissions: -
- Secret replication: Disabled

Rotation schedule

- Automatic rotation: Disabled
- Rotation schedule: -

Rotation function

At the bottom, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

The screenshot shows the AWS Secrets Manager interface for creating a new secret. The top navigation bar includes tabs for 'AWS access portal', 'Databases - RDS Management', 'Store a new secret | Secrets Manager', and 'Ajustes'. The main content area is titled 'Store a new secret' and shows the following configuration steps:

- Rotation schedule**:
 - Automatic rotation: Disabled
 - Rotation schedule: -
- Rotation function**:
 - Lambda rotation function: -
 - Secret that performs rotation: -
- Sample code**:

Use these code samples to retrieve the secret in your application.

Java JavaScript C# Python3 Ruby Go Rust

```
1 // Use this code snippet in your app.
2 // If you need more information about configurations or implementing the sample
3 // code, visit the AWS docs:
4 // https://docs.aws.amazon.com/sdk-for-java/latest/developer-guide/home.html
5
6 // Make sure to import the following packages in your code
7 // import software.amazon.awssdk.regions.Region;
8 // import software.amazon.awssdk.services.secretsmanager.SecretsManagerClient;
9 // import software.amazon.awssdk.services.secretsmanager.model
10 // .GetSecretValueRequest;
11 // import software.amazon.awssdk.services.secretsmanager.model
12 // .GetSecretValueResponse;
13
14 public static void getSecret() {
15 }
```

Java Line 1, Column 1 Errors: 0 Warnings: 0

[Download AWS SDK for Java](#)

At the bottom right are buttons for 'Cancel', 'Previous', and a large orange 'Store' button.

The screenshot shows the AWS Secrets Manager console with a secret named "mysecretjdis".

Secret details:

- Encryption key: aws/secretsmanager
- Secret name: mysecretjdis
- Secret ARN: arn:aws:secretsmanager:us-east-1:590183865524:secret:mysecretjdis-u6LA7x
- Secret description: mysecret Jaison Labrador

Overview (selected) | Rotation | Versions | Replication | Tags

Secret value Info Retrieve secret value

Resource permissions - optional Info Edit permissions

Sample code
Use these code samples to retrieve the secret in your application.

Java | JavaScript | C# | Python3 | Ruby | Go | Rust

```
1 // Use this code snippet in your app.
2 // If you need more information about configurations or implementing the sample
3 // code, visit the AWS docs:
4 // https://docs.aws.amazon.com/sdk-for-java/latest/developer-guide/home.html
5
6 // Make sure to import the following packages in your code
7 // import software.amazon.awssdk.regions.Region;
8 // import software.amazon.awssdk.services.secretsmanager.SecretsManagerClient;
9 // import software.amazon.awssdk.services.secretsmanager.model.GetSecretValueRequest;
10 // import software.amazon.awssdk.services.secretsmanager.model.GetSecretValueResponse;
11
```

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The screenshot shows the AWS Secrets Manager console with the URL <https://us-east-1.console.aws.amazon.com/secretsmanager/listsecrets?region=us-east-1>. The page displays a success message: "You successfully stored the secret mysecretjdlis. To show it in the list, choose Refresh. Use the sample code to update your applications to retrieve this secret." Below this, there is a "View details" button and a "See sample code" button.

The main area is titled "AWS Secrets Manager > Secrets". It features a search bar with the placeholder "Filter secrets by name, description, tag key, tag value, owning service or primary Region". A "Store a new secret" button is located at the top right of the table header.

Secret name	Description	Last retrieved (UTC)
mysecretjdlis	mysecret Jaison Labrador	-
mysecret	-	September 20, 2024
Mysecret-RDS-Jhoan	Mysecret-RDS-Jhoan	-
secret-jeronimo	-	-
mysecret-jhostyn	mysecret-jhostyn	-
MiguelAcunaSecrets	-	-
mysecretcristina	-	-
mysecretcamilogarcia	-	-
mysecret-miguelMartinez	mysecret-miguelMartinez	September 20, 2024
mysecrtStaniek	mysecrtStaniek workshop 2	-

At the bottom of the page, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences. The footer also includes the text "© 2024, Amazon Web Services, Inc. or its affiliates."

Screenshot of the AWS IAM 'Create role' wizard - Step 1: Select trusted entity.

The page shows the 'Trusted entity type' section with four options:

- AWS service**: Allows AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account**: Allows entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- Web identity**: Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 federation**: Allows users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy**: Creates a custom trust policy to enable others to perform actions in this account.

The 'Use case' section shows 'EC2' selected as the service or use case. Under 'Choose a use case for the specified service', the 'EC2' option is selected, which allows EC2 instances to call AWS services on behalf of the user.

At the bottom right, there are 'Cancel' and 'Next Step' buttons.

Screenshot of the AWS IAM 'Create role' wizard, Step 2: Add permissions.

The page title is 'Add permissions'.

Left sidebar navigation: Step 1 (Select trusted entity), Step 2 (Add permissions), Step 3 (Name, review, and create).

Section: Permissions policies (1/958) Info

Filter by Type: All types, 1 match

Search bar: AmazonSSMManagedInstanceCore

Policy name	Type	Description
AmazonSSMManagedInstanceCore	AWS managed	The policy for Amazon EC2 Role to enable...

Optional section: Set permissions boundary - *optional*

Buttons: Cancel, Previous, Next (highlighted in orange)

Page footer: Transfiriendo datos desde us-east-1.console.aws.amazon.com... © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Screenshot of the AWS IAM 'Create role' wizard, Step 1: Name, review, and create.

Role details

Role name: SSMInstanceProfileJaisionLabrador

Description: Allows EC2 Instances to call AWS services on your behalf.

Step 1: Select trusted entities

Trust policy:

```
1 ~ [ 2 "Version": "2012-10-17", 3 "Statement": [ 4 { 5 "Effect": "Allow", 6 "Action": [ 7 "sts:AssumeRole" 8 ], 9 "Principal": { 10 "Service": [ 11 "ec2.amazonaws.com" 12 ] 13 } 14 ] 15 ]]
```

Step 2: Add permissions

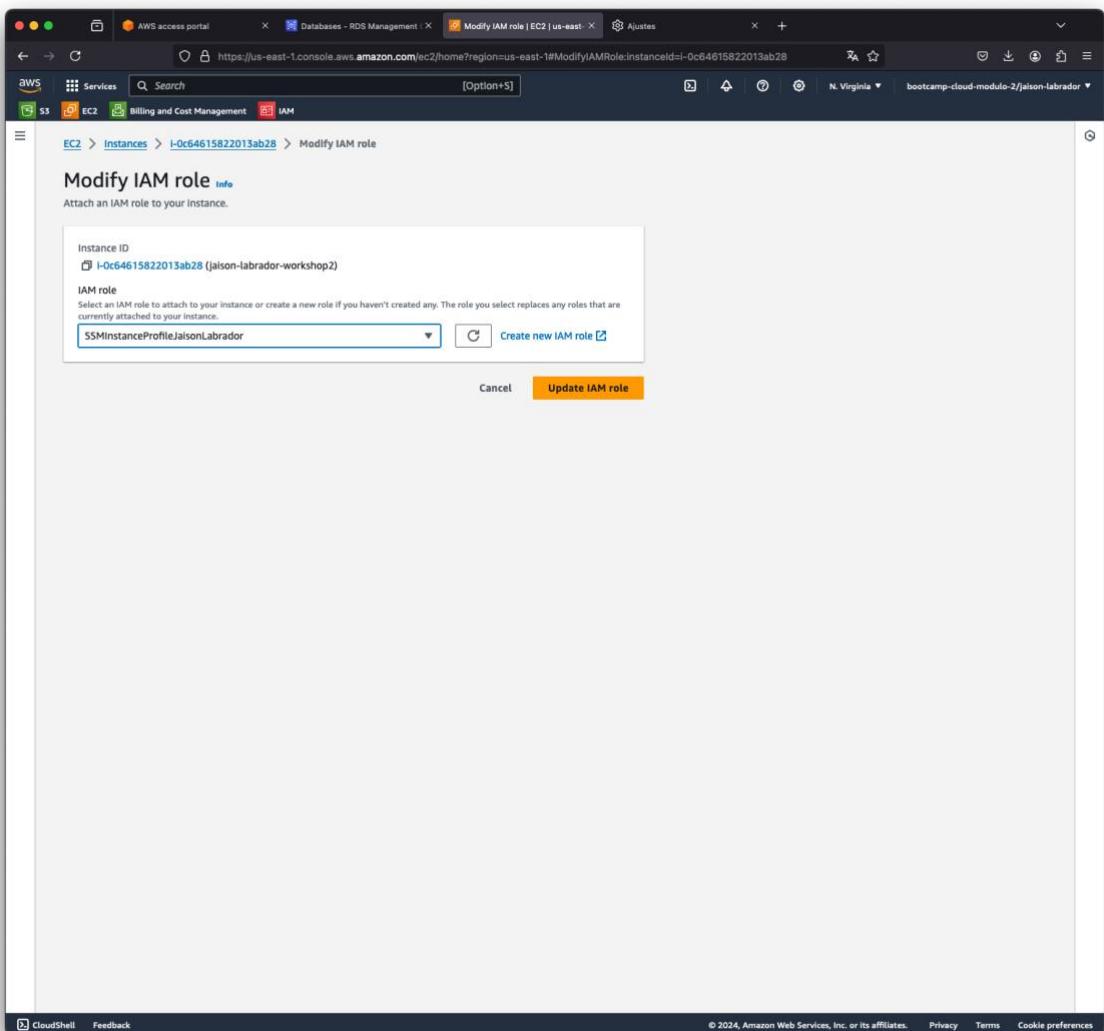
Permissions policy summary:

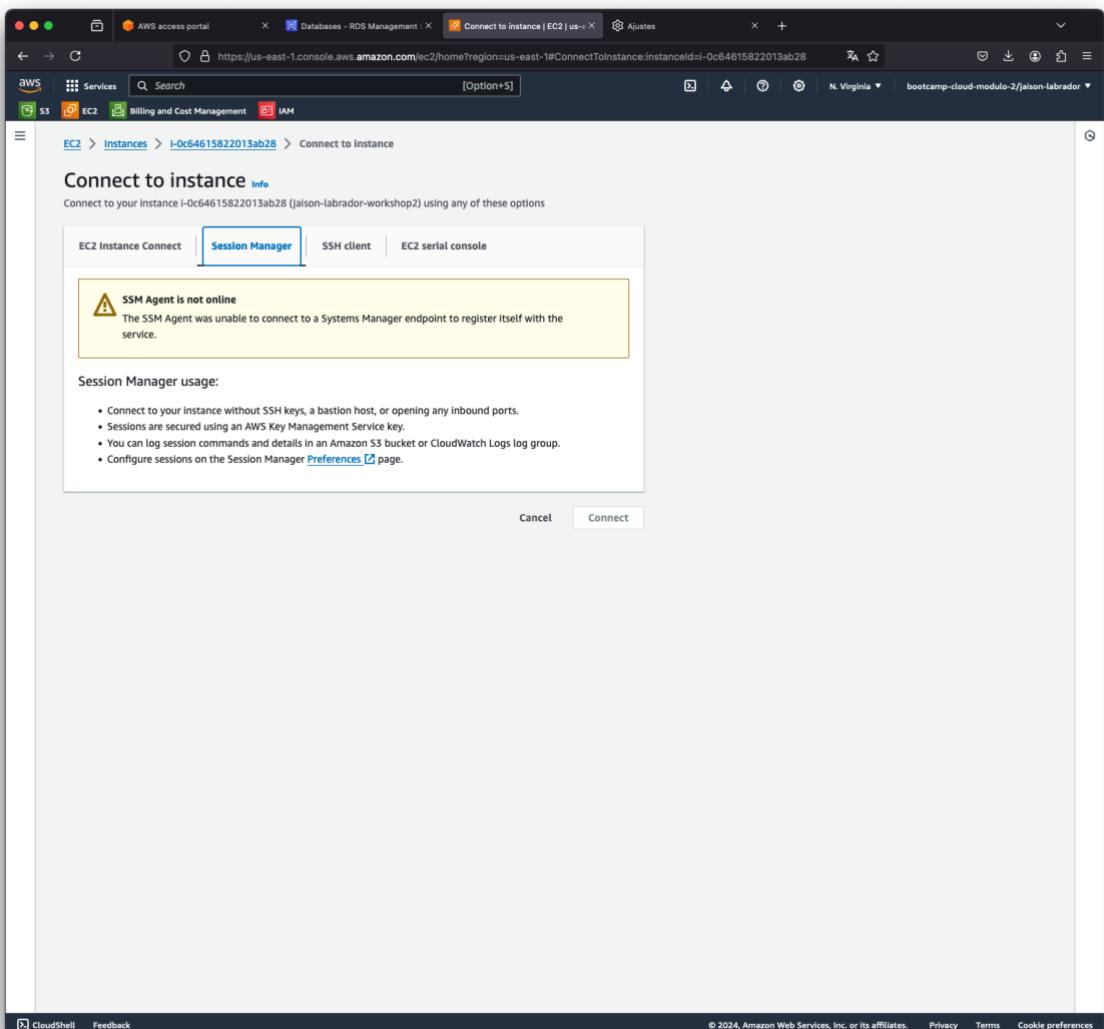
Policy name	Type	Attached as
AmazonSSMManagedInstanceCore	AWS managed	Permissions policy

Step 3: Add tags

Add tags - optional

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Screenshot of the AWS IAM 'Create policy' interface showing the 'Specify permissions' step.

The 'Policy editor' section shows the following configuration:

- Effect:** Allow
- Actions allowed:** A list of actions under 'Secrets Manager' is selected:
 - Read (Selected 1/5):
 - All read actions
 - DescribeSecret
 - GetSecretValue (selected)
 - GetRandomPassword
 - ListSecretVersionIds
 - Write (11)
 - Permissions management (3)
 - Tagging (2)
- Resources:** All resources
- Request conditions - optional:** Actions on resources are allowed or denied only when these conditions are met.

A red box highlights the error message at the bottom:

You need permissions
User: arn:aws:sts::590183865524:assumed-role/AWSReservedSSO_bootcamp-cloud-modulo-2-38925819ac97a59/alison-labrador is not explicitly permitted to perform this action.

Screenshot of the AWS IAM 'Create policy' wizard - Step 2: Review and create.

Review and create Info

Review the permissions, specify details, and tags.

Step 1 Specify permissions

Step 2 Review and create

Policy details

Policy name
Enter a meaningful name to identify this policy.

Description - optional
Add a short explanation for this policy.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Allow (1 of 421 services)

Service	Access level	Resource	Request condition
Secrets Manager	Limited: Read	All resources	None

Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

You can add up to 50 more tags.

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AWS access portal

Add permissions | IAM | Global

Home | EC2 | us-east-1

Ajustes

https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/details/SSMInstanceProfileJaisonLabrador/attach-policies

IAM Services Search [Option+S]

EC2 Billing and Cost Management IAM S3

IAM > Roles > SSMInstanceProfileJaisonLabrador > Add permissions

Attach policy to SSMInstanceProfileJaisonLabrador

▶ Current permissions policies (1)

Other permissions policies (1/959)

Filter by Type

Policy name	Type	Description
<input type="checkbox"/> ReadSecrets-miguelMartinez	Customer managed	ReadSecrets-miguelMartinez
<input type="checkbox"/> ReadSecretsCamiloGarcia	Customer managed	ReadSecretsCamiloGarcia
<input checked="" type="checkbox"/> ReadSecretsJaisonLabrador	Customer managed	ReadSecretsJaisonLabrador
<input type="checkbox"/> ReadSecretsStaniek	Customer managed	ReadSecrets Staniek Workshop 2

Cancel Add permissions

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The screenshot shows the AWS IAM 'Add permissions' dialog. At the top, there's a header with tabs for 'AWS access portal', 'Add permissions | IAM | Global', 'Home | EC2 | us-east-1', and 'Ajustes'. Below the header, the URL is https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/details/SSMInstanceProfileJaisonLabrador/attach-policies. The main content area has a breadcrumb navigation: 'IAM > Roles > SSMInstanceProfileJaisonLabrador > Add permissions'. The title 'Attach policy to SSMInstanceProfileJaisonLabrador' is followed by a section titled '▶ Current permissions policies (1)'. Below this is a table titled 'Other permissions policies (1/959)' with a 'Filter by Type' header. The table lists four policies: 'ReadSecrets-miguelMartinez' (Customer managed), 'ReadSecretsCamiloGarcia' (Customer managed), 'ReadSecretsJaisonLabrador' (Customer managed, selected with a checked checkbox), and 'ReadSecretsStaniek' (Customer managed). The 'ReadSecretsJaisonLabrador' row is highlighted with a blue background. At the bottom right of the dialog are 'Cancel' and 'Add permissions' buttons.

AWS access portal

SSMInstanceProfileJaisonLabrador

Home | EC2 | us-east-1

Ajustes

https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/details/SSMInstanceProfileJaisonLabrador?section=permissions

S3

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
- External access
- Unused access
- Analyzer settings
- Credential report
- Organization activity
- Service control policies

Related consoles

- IAM Identity Center
- AWS Organizations

Policy was successfully attached to role.

SSMInstanceProfileJaisonLabrador [Info](#)

Allows EC2 Instances to call AWS services on your behalf.

[Delete](#)

Summary

Creation date: September 19, 2024, 19:56 (UTC-05:00)

ARN: arn:aws:iam::590183865524:role/SSMInstanceProfileJaisonLabrador

Last activity: -

Maximum session duration: 1 hour

Instance profile ARN: arn:aws:iam::590183865524:instance-profile/SSMInstanceProfileJaisonLabrador

[Edit](#)

Permissions [Trust relationships](#) [Tags](#) [Access Advisor](#) [Revoke sessions](#)

Permissions policies (2) [Info](#)

You can attach up to 10 managed policies.

Filter by Type: All types

Policy name	Type	Attached entities
AmazonSSMManagedInstanceCore	AWS managed	16
ReadSecretsJaisonLabrador	Customer managed	1

Permissions boundary (not set)

You need permissions

User: arn:aws:sts::590183865524:assumed-role/AWSReservedSSO_bootcamp-cloud-modulo-2_3892581f9ae97aa99/jaison-labrador is not authorized to perform: access-analyzer>ListPolicyGenerations on resource: arn:aws:access-analyzer:us-east-1:590183865524:*

CloudShell Feedback

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AWS access portal Event history | CloudTrail | us-east-1 Home | EC2 | us-east-1 Ajustes https://us-east-1.console.aws.amazon.com/cloudtrailv2/home?region=us-east-1#/events?Username=jaison-labrador AWS Services Search [Option+S] EC2 Billing and Cost Management IAM S3 N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

We're continuing to improve the CloudTrail Lake console experience to make it easier to use. Let us know what you think.

New CloudTrail event data store pricing tier View the new pricing page to find out which event data store pricing tier best fits your use cases, and how to get the most out of your CloudTrail Lake setup! Create event data store

CloudTrail > Event history

Event history (50+) Info Event history shows you the last 90 days of management events.

Lookup attributes User name jaison-labrador Filter by date and time 1 2 ... > @

User name	Event name	Event time	User name	Event source	Resource type	Resource name
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:26:37 ...	jaison-labrador	config.amazonaws.com	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:37 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:26:32 ...	jaison-labrador	config.amazonaws.com	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:27 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:27 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:24 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:23 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:06 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:26:06 ...	jaison-labrador	config.amazonaws.com	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:26:06 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:25:50 ...	jaison-labrador	config.amazonaws.com	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:25:44 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:25:44 ...	jaison-labrador	config.amazonaws.com	-	-
jaison-labrador	LookupEvents	September 19, 2024, 20:25:44 ...	jaison-labrador	cloudtrail.amazonaws.c...	-	-
jaison-labrador	ListDelegatedAdmini...	September 19, 2024, 20:25:38 ...	jaison-labrador	organizations.amazonaws...	-	-
jaison-labrador	DescribeConfiguratio...	September 19, 2024, 20:25:26 ...	jaison-labrador	organizations.amazonaws...	-	-

0 / 5 events selected

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AWS access portal Event details - CloudTrail Home | EC2 us-east-1 Ajustes https://us-east-1.console.aws.amazon.com/cloudtrailv2/home?region=us-east-1#/events/15d34e0-4e20-401a-93be-797a7c5b01a2 N. Virginia bootcamp-cloud-modulo-2/jaison-labrador

CloudTrail

We're continuing to improve the CloudTrail Lake console experience to make it easier to use. Let us know what you think.

New CloudTrail event data store pricing tier View the new pricing page to find out which event data store pricing tier best fits your use cases, and how to get the most out of your CloudTrail Lake setup! Create event data store

AccessDeniedException User: arn:aws:sts::590183865524:assumed-role/AWSReservedSSO_bootcamp-cloud-modulo-2_3892581f9ae97a99/jaison-labrador is not authorized to perform: config:DescribeConfigurationRecorderStatus because no identity-based policy allows the config:DescribeConfigurationRecorderStatus action

CloudTrail > Event history > AttachRolePolicy

AttachRolePolicy

Details

Event time	AWS access key	AWS region
September 19, 2024, 20:23:50 (UTC-05:00)	ASIAYS2NTDS2J0Z6JDIF	us-east-1
User name	Source IP address	Error code
jaison-labrador	191.97.12.202	-
Event name	Event ID	Read-only
AttachRolePolicy	f15d34e0-4e20-401a-93be-797a7c5b01a2	false
Event source	Request ID	
iam.amazonaws.com	161629df-76e1-4f48-a909-d88aa5576f9c	

Resources referenced (2)

Resource type	Resource name	AWS Config resource timeline
AWS::IAM::Policy	arn:aws:iam::590183865524:policy/ReadSecretsJaisonLabrador	Enable AWS Config resource recording
AWS::IAM::Role	SSMInstanceProfileJaisonLabrador	Enable AWS Config resource recording

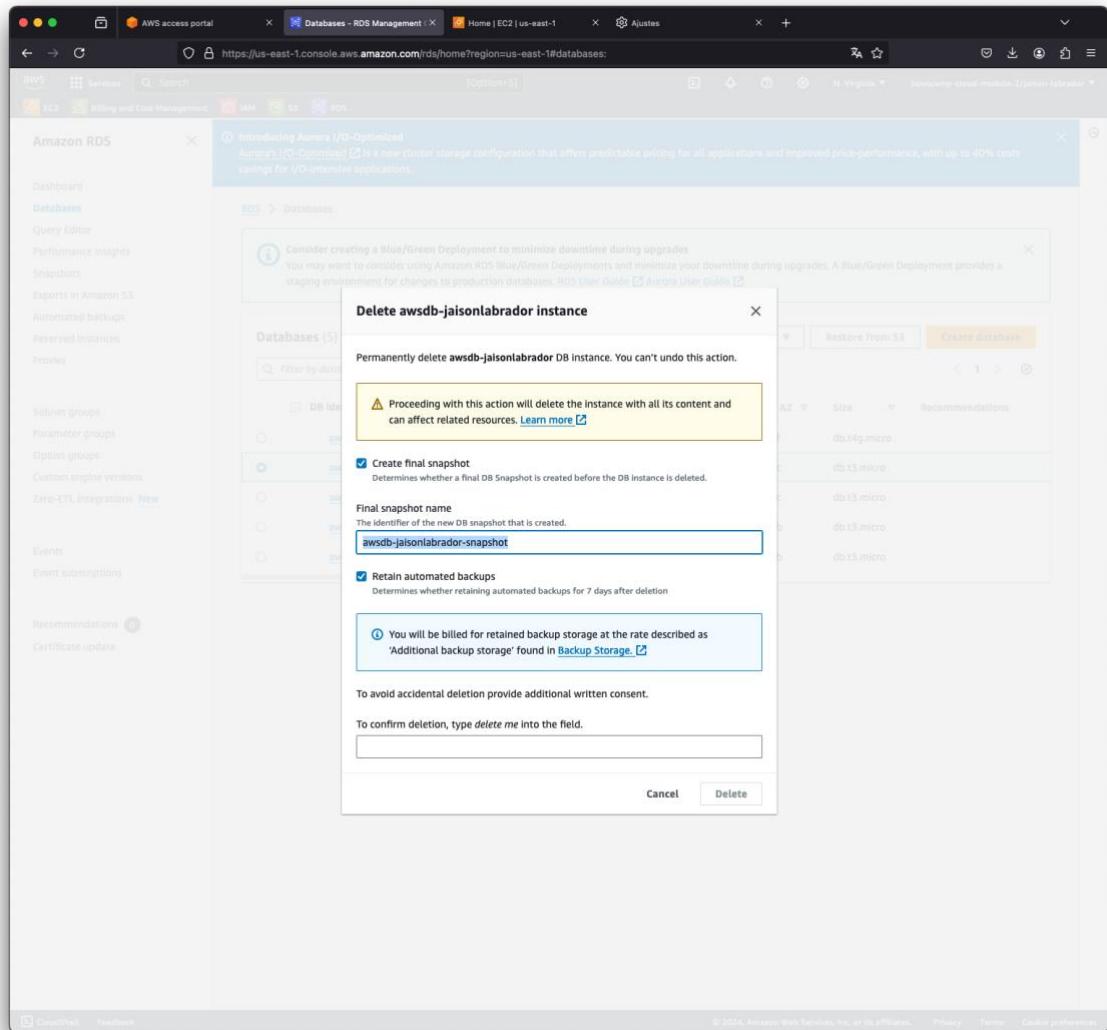
Event record

JSON view

```
1 {
2   "eventVersion": "1.10",
3   "userIdentity": {
4     "type": "AssumedRole",
5     "principalId": "AROAY52NTDS2J0Z6JDIF:jaison-labrador",
6     "arn": "arn:aws:sts::590183865524:assumed-role/AWSReservedSSO_bootcamp-cloud-modulo-2_3892581f9ae97a99/jaison-labrador",
7     "accountId": "590183865524",
8     "accessKeyId": "ASIAYS2NTDS2J0Z6JDIF",
9     "sessionContext": {
10       "sessionIssuer": {
11         "type": "AWSIdentityProvider"
12       }
13     }
14   }
15 }
```

Copy

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Screenshot of the AWS RDS Management console showing the deletion of a database instance.

The browser tabs show: AWS access portal, Databases - RDS Management, Home | EC2 | us-east-1, and Ajustes.

The URL is: https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:

The sidebar navigation includes: AWS, Services, Search, EC2, Billing and Cost Management, IAM, S3, and RDS.

The main content area shows a confirmation message: "Deleting DB instance awsdbs-jaisonlabrador".

A banner at the top right says: "Introducing Aurora I/O-Optimized" and describes it as a new cluster storage configuration offering predictable pricing and improved price-performance.

A callout box suggests: "Consider creating a Blue/Green Deployment to minimize downtime during upgrades".

The "Databases (5)" table lists the following instances:

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations
awsdb-erik	Available	Instance	MySQL Community	us-east-1f	db.t4g.micro	
awsdb-jaisonlabrador	Deleting	Instance	MySQL Community	us-east-1c	db.t3.micro	
awsdb-jhostyn	Available	Instance	MySQL Community	us-east-1c	db.t3.micro	
awsdb-stanlek	Available	Instance	MySQL Community	us-east-1b	db.t3.micro	
awsdbmiguelacuna	Deleting	Instance	MySQL Community	us-east-1b	db.t3.micro	

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The screenshot shows the AWS Secrets Manager console with the URL <https://us-east-1.console.aws.amazon.com/secretsmanager/secret?name=mysecretjds®ion=us-east-1>. The main page displays 'Secret details' for 'mysecretjds'. It includes fields for 'Encryption key' (aws/secretsmanager), 'Secret description' (mysecret jason Labrador), 'Secret name' (mysecretjds), and 'Secret ARN' (arn:aws:secretsmanager:us-east-1:590185869524:secret:mysecretjds-0f8A7w). Below these are tabs for 'Overview', 'Rotation', 'Versions', and 'Replicas'. A 'Secret value' section allows viewing or removing the secret value. A 'Resource permissions - optional' section provides options to add or edit a resource policy. A 'Sample code' section contains code snippets for Java, JavaScript, C#, Python, Ruby, Go, and Rust. A modal dialog titled 'Disable secret and schedule deletion' is overlaid, asking for a 'Waiting period' of 7 days. The 'Schedule deletion' button is highlighted in orange.