

Lab5

Task 1: Create RDS

The screenshot shows the AWS EC2 Security Groups page. On the left, there's a navigation sidebar with categories like Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups, Trust Stores), and CloudShell/Feedback. The main area displays a table titled "Security Groups (6) Info" with columns: Name, Security group ID, Security group name, VPC ID, and Description. The table lists six security groups: "launch-wizard-2", "launch-wizard-1", "MyAlbSG", "default", "MyWebServerBehindLoadBalancers", and "launch-wizard-3". Each row includes a "Delete" button.

The screenshot shows the "CreateSecurityGroup" page. The top navigation bar and sidebar are identical to the previous screenshot. The main content is divided into two sections: "Inbound rules" and "Outbound rules".
Inbound rules: The "Type" dropdown is set to "MySQL/Aurora". The "Protocol" dropdown is set to "TCP" and the "Port range" is "3306". The "Source" dropdown is set to "Custom" and the search bar contains "sg-0327c67cc47aca0ff". A dropdown menu shows "MyWebServerBehindLoadBalancers | sg-0327c67cc47aca0ff".
Outbound rules: The "Type" dropdown is set to "All traffic". The "Protocol" dropdown is set to "All" and the "Port range" is "All". The "Destination" dropdown is set to "Custom" and the search bar contains "0.0.0.0/0".
A yellow warning message at the bottom states: "⚠️ Rules with source of 0.0.0.0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.".

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aws Services Search [Option+S]

EC2 > Security Groups > Create security group

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
MyRdsSG
Name cannot be edited after creation.

Description Info
MyRdsSG

VPC Info
vpc-00ca485ce3bca3ba3

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>
MySQL/Aurora	TCP	3306	Custom	sg-0327c67cc47aca0ff sg-0327c67cc47aca0ff

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aws Services Search [Option+S]

EC2 > Security Groups > sg-0867138711159c77f1 - MyRdsSG

sg-0867138711159c77f1 - MyRdsSG Actions

Details

Security group name MyRdsSG	Security group ID sg-0867138711159c77f1	Description MyRdsSG	VPC ID vpc-00ca485ce3bca3ba3
Owner 339712977636	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Tags

Inbound rules (1)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0fa148438da14d735	-	MySQL/Aurora	TCP	3306

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aws Services Search [Option+S]

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 0

CloudShell Feedback

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% cost 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 (0)

Group resources Modify Actions

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations	CPU	Current ac
No instances found								

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aws Services Search [Option+S]

RDS > Create database

Create database

Choose a database creation method [Info](#)

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](#)

<input checked="" type="radio"/> Aurora (MySQL Compatible) 	<input type="radio"/> Aurora (PostgreSQL Compatible) 
<input type="radio"/> MySQL 	<input type="radio"/> MariaDB 

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

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AWS Services Search [Option+S]

Engine Version
Aurora MySQL 3.04.1 (compatible with MySQL 8.0.28) - default for major version 8.0

⚠ Parallel query is off by default. To enable it, use a DB instance parameter group with the aurora_parallel_query parameter enabled. [Learn more](#)

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.

Settings

DB cluster identifier [Info](#)
Enter a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Credentials Settings

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

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AWS Services Search [Option+S]

Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.

1 to 32 alphanumeric characters. The first character must be a letter.

Credentials management
You can use AWS Secrets Manager or manage your master user credentials.

Managed in AWS Secrets Manager - **most secure**
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

Self managed
Create your own password or have RDS create a password that you manage.

Auto generate password
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ` ^ @

Confirm master password [Info](#)

Cluster storage configuration - new [Info](#)
Choose the storage configuration for the Aurora DB cluster that best fits your application's price predictability and price performance needs.

Configuration options
Database instance, storage, and I/O charges vary depending on the configuration. [Learn more](#)

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aws Services Search [Option+S]

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

Hide filters

Include previous generation classes

Serverless v2

Memory optimized classes (includes r classes)

Burstable classes (includes t classes)

db.t3.medium [Info](#)

2 vCPUs 4 GiB RAM Network: 2,085 Mbps

Availability & durability

Multi-AZ deployment [Info](#)

Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)
Creates an Aurora Replica for fast failover and high availability.

Don't create an Aurora Replica

Connectivity [Info](#)

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Connectivity [Info](#)

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.

Network type [Info](#)
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) [Info](#)
Choose the VPC. The VPC defines the virtual networking environment for this DB cluster.

Default VPC (vpc-00ca485ce3bca5ba3)
6 Subnets, 6 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

DB subnet group [Info](#)
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB cluster can use in the VPC that you selected.

default

Public access [Info](#)

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aws Services Search [Option+S]

DB subnet group [Info](#)
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB cluster can use in the VPC that you selected.

Public access [Info](#)
 Yes
RDS assigns a public IP address to the cluster. Amazon EC2 instances and other resources outside of the VPC can connect to your cluster. Resources inside the VPC can also connect to the cluster. Choose one or more VPC security groups that specify which resources can connect to the cluster.
 No
RDS doesn't assign a public IP address to the cluster. Only Amazon EC2 instances and other resources inside the VPC can connect to your cluster. Choose one or more VPC security groups that specify which resources can connect to the cluster.

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

RDS Proxy
RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.
 Create an RDS Proxy [Info](#)
RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

Certificate authority - optional [Info](#)
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

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aws Services Search [Option+S]

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, encryption turned on, failover, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options
Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB cluster parameter group [Info](#)

DB parameter group [Info](#)

Option group [Info](#)

Failover priority

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Amazon RDS

Databases (3)

DB identifier	Status	Role	Engine	Region & AZ	Size
mydbcluster	Creating	Regional cluster	Aurora MySQL	us-east-1	2 instances
mydbcluster-instance-1	Creating	Reader instance	Aurora MySQL	us-east-1f	db.t3.medium
mydbcluster-instance-1-us-east-1b	Creating	Reader instance	Aurora MySQL	us-east-1b	db.t3.medium

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mydbcluster

Related

DB identifier	Status	Role	Engine	Region & AZ	Size
mydbcluster	Available	Regional cluster	Aurora MySQL	us-east-1	2 instances
mydbcluster-instance-1	Creating	Writer instance	Aurora MySQL	us-east-1f	db.t3.medium
mydbcluster-instance-1-us-east-1b	Creating	Reader instance	Aurora MySQL	us-east-1b	db.t3.medium

Connectivity & security Monitoring Logs & events Configuration Zero-ETL integrations Maintenance & backups Tags

Endpoints (2)

Endpoint name	Status	Type	Port
mydbcluster.cluster-cj0888qsgejd.us-east-1.rds.amazonaws.com	Available	Writer	3306
mydbcluster.cluster-ro-cj0888qsgejd.us-east-1.rds.amazonaws.com	Available	Reader	3306

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aws Services Search [Option+S] Actions

Amazon RDS

mydbcluster

Related

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations
mydbcluster	Available	Regional cluster	Aurora MySQL	us-east-1	2 instances	
mydbcluster-instance-1	Available	Writer instance	Aurora MySQL	us-east-1f	db.t3.medium	
mydbcluster-instance-1-us-east-1b	Available	Reader instance	Aurora MySQL	us-east-1b	db.t3.medium	

Connectivity & security Monitoring Logs & events Configuration Zero-ETL integrations Maintenance & backups Tags

Endpoints (2)

Endpoint name	Status	Type	Port
mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com	Available	Writer	3306
mydbcluster.cluster-ro-cjo888qsgejd.us-east-1.rds.amazonaws.com	Available	Reader	3306

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Session ID: user3067672=sanjaya.koju-08779ac45681c99f1 Instance ID: i-0b9022f17fc15d23f

Termination

```

Verifying      : mariadb105-common-3:10.5.23-1.amzn2023.0.1.x86_64          4/5
Verifying      : mariadb-connector-c-config-3.1.13-1.amzn2023.0.3.noarch    5/5

Installed:
mariadb-connector-c-3.1.13-1.amzn2023.0.3.x86_64      mariadb-connector-c-config-3.1.13-1.amzn2023.0.3.noarch      mariadb105-3:10.5.23-1.amzn2023.0.1.x86_64

Complete!
sh-5.2$ mysql -h mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com -p 3306 -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to MySQL server on 'mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com' (115)
sh-5.2$ sudo -s
[root@ip-172-31-35-177 bin]# sudo dnf install mariadb105 -y
Last metadata expiration check: 0:04:55 ago on Sun Mar 24 18:02:44 2024.
Package mariadb105-3:10.5.23-1.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-35-177 bin]# mysql -h mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com -p 3306 -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to MySQL server on 'mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com' (115)
[root@ip-172-31-35-177 bin]# mysql -h mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com -p 3306 -u root -p
Enter password:
ERROR 1049 (42000): Unknown database '3306'
[root@ip-172-31-35-177 bin]# mysql -h mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com -p 3306 -u root -p
Enter password:
ERROR 1049 (42000): Unknown database '3306'
[root@ip-172-31-35-177 bin]# mysql -h mydbcluster.cluster-cjo888qsgejd.us-east-1.rds.amazonaws.com -p 3306 -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 327
Server version: 8.0.28 Source distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> 
```

Session ID: user3067672=sanjaya.koju-08779ac45681c99f1 Instance ID: i-0b9022f17fc15d23f

Termination

```

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| university |
+-----+
5 rows in set (0.002 sec)

MySQL [(none)]> CREATE TABLE COURSE (
-> COURSE_ID int,
-> COURSE_CODE varchar(255),
-> COURSE_NAME varchar(255),
-> TEACHER_ID int
-> );
ERROR 1046 (3D000): No database selected
MySQL [(none)]> USE university;
Database changed
MySQL [university]> CREATE TABLE COURSE (
->     COURSE_ID int,
->     COURSE_CODE varchar(255),
->     COURSE_NAME varchar(255),
->     TEACHER_ID int
-> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '--> COURSE_ID int,' at line 2
MySQL [university]> CREATE TABLE COURSE (
->     COURSE_ID int,
->     COURSE_CODE varchar(255),
->     COURSE_NAME varchar(255),
->     TEACHER_ID int
-> );
Query OK, 0 rows affected (0.027 sec) 
```

```

Session ID: user3067672=sanjaya.koju-08779ac45681c99f1
Instance ID: i-0b9022f17fc15d23f
Terminate

-> COURSE_CODE varchar(255),
-> COURSE_NAME varchar(255),
-> TEACHER_ID int
-> );
Query OK, 0 rows affected (0.027 sec)

MySQL [university]> show tables;
+-----+
| Tables_in_university |
+-----+
| COURSE |
+-----+
1 row in set (0.002 sec)

MySQL [university]> CREATE TABLE TEACHER (
-> TEACHER_ID int,
-> NAME
-> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 4
MySQL [university]> CREATE TABLE TEACHER ( TEACHER_ID int, NAME );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 1
MySQL [university]> CREATE TABLE TEACHER ( TEACHER_ID int, NAME VARCHAR(540);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
MySQL [university]> CREATE TABLE TEACHER ( TEACHER_ID int, NAME VARCHAR(540));
Query OK, 0 rows affected (0.035 sec)

MySQL [university]> INSERT INTO TEACHER (TEACHER_ID, NAME)
-> VALUES (1, "UNBOLD"),
-> (2, "ASAAD"),
-> (3, "UMER")
-> ;
Query OK, 3 rows affected (0.004 sec)
Records: 3 Duplicates: 0 Warnings: 0

MySQL [university]> 

```

```

Session ID: user3067672=sanjaya.koju-08779ac45681c99f1
Instance ID: i-0b9022f17fc15d23f
Terminate

1
MySQL [university]> CREATE TABLE TEACHER ( TEACHER_ID int, NAME VARCHAR(540);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
MySQL [university]> CREATE TABLE TEACHER ( TEACHER_ID int, NAME VARCHAR(540));
Query OK, 0 rows affected (0.035 sec)

MySQL [university]> INSERT INTO TEACHER (TEACHER_ID, NAME)
-> VALUES (1, "UNBOLD"),
-> (2, "ASAAD"),
-> (3, "UMER")
-> ;
Query OK, 3 rows affected (0.004 sec)
Records: 3 Duplicates: 0 Warnings: 0

MySQL [university]> INSERT INTO COURSE (COURSE_ID, COURSE_CODE, COURSE_NAME, TEACHER_ID)
-> VALUES (1, "CS516", "CLOUD COMPUTING", 1),
-> (2, "CS568", "REACT", 2),
-> (3, "CS569", "ANGULAR", 3);
Query OK, 3 rows affected (0.005 sec)
Records: 3 Duplicates: 0 Warnings: 0

MySQL [university]> SELECT T.NAME, C.COURSE.ID, C.COURSE_NAME FROM TEACHER T JOIN ON COURSE C T.TEACHER_ID = C.TEACHER_ID;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ON COURSE C T.TEACHER_ID = C.TEACHER_ID' at line 1
MySQL [university]> SELECT T.NAME, C.COURSE.ID, C.COURSE_NAME FROM TEACHER T JOIN COURSE C ON T.TEACHER_ID = C.TEACHER_ID;
ERROR 1054 (42S22): Unknown column 'C.COURSE.ID' in 'field list'
MySQL [university]> SELECT T.NAME, C.COURSE_ID, C.COURSE_NAME FROM TEACHER T JOIN COURSE C ON T.TEACHER_ID = C.TEACHER_ID;
+-----+
| NAME | COURSE_ID | COURSE_NAME |
+-----+
| UNBOLD | 1 | CLOUD COMPUTING |
| ASAAD | 2 | REACT |
| UMER | 3 | ANGULAR |
+-----+
3 rows in set (0.001 sec)

MySQL [university]> 

```

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us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-0b9022f17fc15d23f?region=us-east-1#

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Session ID: user3067672=sanjaya.koju-08779ac45681c99f1 Instance ID: i-0b9022f17fc15d23f

Terminate

```
+-----+-----+
| UNBOLD | 1 | CLOUD COMPUTING |
| ASAAD  | 2 | REACT          |
| UMER   | 3 | ANGULAR        |
+-----+-----+
3 rows in set (0.001 sec)

MySQL [university]> mysql -h mydbcluster.cluster-ro-cjo888qsgejd.us-east-1.rds.amazonaws.com -P 3306 -u root -p
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'mysql -h mydbcluster.cluster-ro-cjo888qsgejd.us-east-1.rds.amazonaws.com -P 3306' at line 1
MySQL [university]> exit
Bye
[root@ip-172-31-35-177 bin]# mysql -h mydbcluster.cluster-ro-cjo888qsgejd.us-east-1.rds.amazonaws.com -P 3306 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 359
Server version: 8.0.28 Source distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;
+-----+
| Database      |
+-----+
| information_schema |
| mysql          |
| performance_schema |
| sys            |
| university     |
+-----+
5 rows in set (0.014 sec)

MySQL [(none)]> create database d;
ERROR 1836 (HY000): Running in read-only mode
MySQL [(none)]>
```