



Oguzhan  
Selcuk  
Hiziroglu

*Bu çalışma Oğuzhan Selçuk Hızıroğlu tarafından AWS re/Start Cohort-2 öğrencileri için hazırlanmıştır.*

Home Course Modules: AWS re/Start FC 274-[DF]-Lab - Introduction to Ar Workbench Vocareum Labs

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2040975&stepid=2040976&ownerid=2021067&permit=7&tide=1&version=0

Vocareum Home My Classes Manage Help Oguzhan Hiziroglu

AWS

EN-US

**Start Lab**

**Tıkla**

# Introduction to Amazon Aurora

## Overview

This lab introduces you to Amazon Aurora and provides you with a basic understanding of how to use Aurora. You will follow the steps to create an Aurora instance and then connect to it.

## Topics covered

After completing this lab, you will be able to:

- Create an Aurora instance
- Connect to a pre-created Amazon Elastic Compute Cloud (Amazon EC2) instance
- Configure the Amazon EC2 instance to connect to Aurora
- Query the Aurora instance

## Duration

Home Course Modules: AWS re/Start FC 274-[DF]-Lab - Introduction to Ara Workbench Vocareum Labs

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AWS Start Lab End Lab AWS Details

EN-US

# Introduction to Amazon Aurora

## Overview

This lab introduces you to Amazon Aurora and provides you with a basic understanding of how to use Aurora. You will follow the steps to create an Aurora instance and then connect to it.

## Topics covered

After completing this lab, you will be able to:

- Create an Aurora instance
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## Duration

28°C Kışmen güneşli Ara

02:37 17.08.2023

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AWS (Green)

EN-US

Used \$0 of \$10 01:16 Start Lab End Lab AWS Details

**Tıkla**

## Accessing the AWS Management Console

- At the upper-right corner of these instructions, choose **Start Lab**

**Troubleshooting tip:** If you get an **Access Denied** error, close the error box, and choose **Start Lab** again.
- The lab status can be interpreted as follows:
  - A red circle next to AWS ● at the upper-left corner of this page indicates the lab has not been started.
  - A yellow circle next to AWS ○ at the upper-left corner of this page indicates the lab is starting.
  - A green circle next to AWS ● at the upper-left corner of this page indicates the lab is ready.

Wait for the lab to be ready before proceeding.
- At the top of these instructions, choose the green circle next to AWS ●

This option opens the AWS Management Console in a new browser tab. The system automatically sign you in.

**Tip:** If a new browser tab does not open, a banner or icon at the top of your browser will indicate that your browser is preventing the site from opening pop-up windows. Choose the banner or icon, and choose **Allow pop-ups**.

- Arrange the AWS Management Console tab so that it displays along side these instructions. Ideally, you should be able to see both browser tabs at the same time so that you can follow the lab steps.

**⚠ Do not change the lab Region unless specifically instructed to do so.**

It takes a few minutes to provision the resources necessary to complete this lab.

Introducing the technical stack

28°C Kışmen güneşli

Ara

02:41 17.08.2023

The screenshot shows the AWS CloudSearch search results for the query 'RDS'. The search bar at the top has the text 'RDS' with a red arrow pointing to it. A yellow box labeled '1' highlights the search term 'RDS' in the bar. Another yellow box labeled '2' highlights the result entry for 'RDS' in the list below.

Search results for 'RDS'

Try searching with longer queries for more relevant results

Services (14)

Features (32)

Resources New

Documentation (18,554)

Knowledge Articles (20)

Marketplace (516)

Blogs (1,920)

Events (40)

Tutorials (17)

**Services**

RDS ★ **'RDS' servisini aç**

Managed Relational Database Service

Top features

Dashboard Databases Query Editor Performance Insights Snapshots

AWS FIS ☆

Improve resiliency and performance with controlled experiments.

Database Migration Service ☆

Managed Database Migration Service

Kinesis ☆

Work with Real-Time Streaming Data

See all 14 results ▶

Features

Reserved instances

See all 32 results ▶

layout + Add widgets

AWS

Started with AWS

Fundamentals and find valuable resources to get the most out of AWS.

Find certification

AWS experts and advance your knowledge.

View with AWS?

New AWS services, features, and

Open issues

Current month costs

Top costs for current month

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#

AWS Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

## Amazon RDS

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.

**Databases** 'Databases' butonuna tıkla

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 [Preview](#)

Events Event subscriptions

**Resources** Refresh

You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota)

<a href="#">DB Instances (0/40)</a>	<a href="#">Parameter groups (0)</a>
Allocated storage (0 TB/100 TB)	Default (0)
<a href="#">Increase DB instances limit</a>	Custom (0/100)
<a href="#">DB Clusters (0/40)</a>	<a href="#">Option groups (0)</a>
<a href="#">Reserved instances (0/40)</a>	Default (0)
<a href="#">Snapshots (0)</a>	Custom (0/20)
Manual	<a href="#">Subnet groups (1/50)</a>
<a href="#">DB Cluster (0/100)</a>	<a href="#">Supported platforms</a> VPC

**Recommended for you**

**Amazon RDS Backup and Restore using AWS Backup**  
Learn how to backup and restore Amazon RDS databases using AWS Backup in just 10 minutes. [Learn more](#)

**Implementing Cross-Region DR**  
Learn how to set up Cross-Region disaster recovery (DR) for Aurora PostgreSQL using an Aurora global database spanning multiple Regions. [Learn more](#)

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

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02:42 17.08.2023

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

**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 [Preview](#)
- Events
- Event subscriptions

**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 (0)										<input checked="" type="checkbox"/> Group resources		Modify	Actions ▾	Restore from S3	<b>Create database</b>			
											Filter by databases							
		DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	Current activity	Maintenance							
No instances found																		

A red arrow points to the **Create database** button.

Home Course Modules: AWS re/St 274-[DF]-Lab - Introduction Workbench Vocareum Labs Create database - RDS Man

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogulu @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue 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

Aurora (MySQL Compatible)



Aurora (PostgreSQL Compatible)



MySQL



MariaDB

PostgreSQL

Oracle

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Aurora (MySQL 5.7) 2.07.9  
Aurora (MySQL 5.7) 2.07.10  
**Aurora (MySQL 5.7) 2.11.1**  
**Aurora (MySQL 5.7) 2.11.2** ✓  
Aurora (MySQL 5.7) 2.11.3  
Aurora MySQL 2.12.0 (compatible with MySQL 5.7.40)  
Aurora MySQL 3.01.0 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.01.1 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.02.0 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.02.1 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.02.2 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.02.3 (compatible with MySQL 8.0.23)  
Aurora MySQL 3.03.0 (compatible with MySQL 8.0.26)  
Aurora MySQL 3.03.1 (compatible with MySQL 8.0.26)  
Aurora MySQL 3.04.0 (compatible with MySQL 8.0.28)  
Aurora (MySQL 5.7) 2.11.2

**DB engine versions**

The following DB engine versions are supported for these database features:

**Provisioned: single-master**  
2.07.9, 2.07.10, 2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with parallel query**  
2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with global database**  
2.07.9 (Global compatible), 2.07.10 (Global compatible), 2.11.1 (Global compatible), 2.11.2 (Global compatible), 2.11.3 (Global compatible), (Global compatible), (Global compatible), (Global compatible), (Global compatible)

**Templates**  
Choose a sample template to meet your use case.

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28°C Ara 02:47 17.08.2023

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Service

Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_roglu @ 4965...

**Microsoft® SQL Server®**

Engine version [Info](#)  
View the engine versions that support the following database features.

▼ Hide filters

Show versions that support the global database feature  
Allows a single Amazon Aurora database to span multiple AWS Regions.

Show versions that support the parallel query feature  
Improves the performance of analytic queries by pushing processing down to the Aurora storage layer.

Show versions that support Serverless v2  
Offers instance scaling for even the most demanding workloads.

Available versions (15/16) [Info](#)

Aurora (MySQL 5.7) 2.11.2 

**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.

**DB engine versions**

The following DB engine versions are supported for these database features:

**Provisioned: single-master**  
2.07.9, 2.07.10, 2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with parallel query**  
2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with global database**  
2.07.9 (Global compatible), 2.07.10 (Global compatible), 2.11.1 (Global compatible), 2.11.2 (Global compatible), 2.11.3 (Global compatible), (Global compatible), (Global compatible), (Global compatible), (Global compatible)

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28°C Kışmen güneşli Ara b V 1 F 1 M 1 C 1 X 1 02:47 17.08.2023 2

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Service

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**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**

**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.

Manage master credentials in AWS Secrets Manager  
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

**Info** If you manage the master user credentials in Secrets Manager, some RDS features aren't supported.  
[Learn more](#) 

Auto generate a password

**DB engine versions**

The following DB engine versions are supported for these database features:

**Provisioned: single-master**  
2.07.9, 2.07.10, 2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with parallel query**  
2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with global database**  
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02:48 17.08.2023

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Service

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

Manage master credentials in AWS Secrets Manager  
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

**Info** If you manage the master user credentials in Secrets Manager, some RDS features aren't supported.  
[Learn more](#)

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

Master password [Info](#)  
.....  
Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

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

**DB engine versions**

The following DB engine versions are supported for these database features:

**Provisioned: single-master**  
2.07.9, 2.07.10, 2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with parallel query**  
2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with global database**  
2.07.9 (Global compatible), 2.07.10 (Global compatible), 2.11.1 (Global compatible), 2.11.2 (Global compatible), 2.11.3 (Global compatible), (Global compatible), (Global compatible), (Global compatible), (Global compatible)

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02:49 17.08.2023

The screenshot shows the AWS RDS Instance Configuration page. The top navigation bar includes the AWS logo, Services (CloudFormation, EC2, S3, RDS, EFS, CloudWatch, IAM, Amazon Redshift, VPC, Route 53, CloudFront, Certificate Manager, Elastic Beanstalk, Lambda, API Gateway, Simple Queue Service), a search bar, and a [Alt+S] keyboard shortcut. The region is set to Oregon. The user's session is vocabs/user2700240=Student\_View\_Oguzhan\_H\_z\_roglu @ 4965...

**Instance configuration**

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

**DB instance class** [Info](#)

Memory optimized classes (includes r classes)

Burstable classes (includes t classes) db.t3.small  
2 vCPUs 2 GiB RAM Network: 2.085 Mbps ▼

Include previous generation classes

**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

**DB engine versions** X

The following DB engine versions are supported for these database features:

**Provisioned: single-master**  
2.07.9, 2.07.10, 2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with parallel query**  
2.11.1, 2.11.2, 2.11.3, 2.12.0, 3.01.0, 3.01.1, 3.02.0, 3.02.1, 3.02.2, 3.02.3, 3.03.0, 3.03.1, 3.04.0

**Provisioned with global database**  
2.07.9 (Global compatible), 2.07.10 (Global compatible), 2.11.1 (Global compatible), 2.11.2 (Global compatible), 2.11.3 (Global compatible), (Global compatible), (Global compatible), (Global compatible), (Global compatible)

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Service

## 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.

LabVPC (vpc-0fd6098e34b699bcc)  
2 Subnets, 2 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

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28°C Kışmen güneşli

Ara

02:51 17.08.2023



us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue

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**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.

dbsubnetgroup  
2 Subnets, 2 Availability Zones

**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**

Choose one or more options

default X

**Çarşıya tıkla ve 'default' security group'u kaldır**

**Availability Zone** [Info](#)

No preference

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue

Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

**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.  
**dbsubnetgroup**  
2 Subnets, 2 Availability Zones

**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**  
Choose one or more options  
DBSecurityGroup X **'DBSecurityGroup'u seç'**

**Availability Zone** [Info](#)  
No preference

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S

## Monitoring

### Monitoring

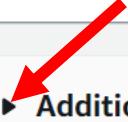
Enable Enhanced monitoring  
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

Granularity: 60 seconds

Monitoring Role: default  
Clicking "Create database" will authorize RDS to create the IAM role rds-monitoring-role

### Additional configuration

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

 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.

Cancel **Create database**

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S

**Monitoring**

**Monitoring**

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

Granularity: 60 seconds

Monitoring Role: default

Clicking "Create database" will authorize RDS to create the IAM role rds-monitoring-role

**Additional configuration**

Database options

Initial database name: **world**

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

▼ Additional configuration

Database options

Initial database name [Info](#)  
**world**

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

DB cluster parameter group [Info](#)

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S

**Monitoring**

**Seçim kaldırıldı**

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](#)



us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S]

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S

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### Backup

Backup retention period [Info](#)  
The number of days (1-35) for which automatic backups are kept.

1 day

Copy tags to snapshots

**Encryption** Seçim kaldırıldı

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](#)

### Backtrack

Backtrack lets you quickly rewind the DB cluster to a specific point in time, without having to create another DB cluster. [Info](#)

Enable Backtrack  
Enabling Backtrack will charge you for storing the changes you make for backtracking.

### 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.

## IAM role

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

## RDS service-linked role

**Seçimi kaldır**

### ~~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.

**i** 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.

**Cancel**

## Create database

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:gdb=false;s3-import=false

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

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  
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

**Seçim kaldırıldı**

**Enable auto minor version upgrade**

**Create database**

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.

Cancel Create database

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Home Course Modules: AWS re/St 274-[DF]-Lab - Introduction Workbench Vocareum Labs Databases - RDS Managem

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

AWS Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

Creating database **aurora**

Your database might take a few minutes to launch.

You can use settings from aurora to simplify configuration of suggested database add-ons while we finish creating your DB for you.

How was your experience creating an Amazon RDS database? [Provide feedback](#)

View credential details X

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 (2)

Group resources C Modify Actions ▾ Restore from S3 Create database

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	Current activity	Maintenance
aurora	Creating	Regional cluster	Aurora MySQL	us-west-2	1 instance	-	-	-	none
aurora-instance-1	Creating	Reader instance	Aurora MySQL	-	db.t3.small	-	-	-	none

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

**Services** Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

**Successfully created database aurora**

You can use settings from aurora to simplify configuration of [suggested database add-ons](#) while we finish creating your DB for you.

How was your experience creating an Amazon RDS database? [Provide feedback](#)

**Introducing Aurora I/O-Optimized**

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RDS > Databases

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Databases (2)											
<a href="#">Group resources</a> <a href="#">C</a> <a href="#">Modify</a> <a href="#">Actions ▾</a> <a href="#">Restore from S3</a> <a href="#">Create database</a>											
<a href="#">Filter by databases</a> <a href="#">◀</a> <a href="#">1</a> <a href="#">▶</a> <a href="#">⚙️</a>											
DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	Current activity	Maintenance		
aurora	<span style="border: 2px dashed red; padding: 2px;">Available</span>	Regional cluster	Aurora MySQL	us-west-2	1 instance	-	-	-	none		
aurora-instance-1	<span style="border: 2px dashed red; padding: 2px;">Creating</span>	Reader instance	Aurora MySQL	-	db.t3.small	-	-	-	none		

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

**Services** Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

**Successfully created database aurora** View connection details X

You can use settings from aurora to simplify configuration of [suggested database add-ons](#) while we finish creating your DB for you.

How was your experience creating an Amazon RDS database? [Provide feedback](#)

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RDS > Databases

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

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<a href="#">Group resources</a> <a href="#">C</a> <a href="#">Modify</a> <a href="#">Actions ▾</a> <a href="#">Restore from S3</a> <a href="#">Create database</a>											
<a href="#">Filter by databases</a> < 1 > <a href="#">⚙️</a>											
DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	Current activi...			
aurora	Available	Regional cluster	Aurora MySQL	us-west-2	1 instance	-	-	-			
aurora-instance-1	Configuring-enhanced-monitoring	Writer instance	Aurora MySQL	us-west-2a	db.t3.small	-	0.00%				

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

**Services** Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue S...

**Successfully created database aurora** View connection details X

You can use settings from aurora to simplify configuration of [suggested database add-ons](#) while we finish creating your DB for you.

How was your experience creating an Amazon RDS database? [Provide feedback](#)

**Introducing Aurora I/O-Optimized** X

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RDS > Databases

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Databases (2)											
<a href="#">Group resources</a> <a href="#">C</a> <a href="#">Modify</a> <a href="#">Actions ▾</a> <a href="#">Restore from S3</a> <a href="#">Create database</a>											
<a href="#">Filter by databases</a> < 1 > <a href="#">⚙️</a>											
DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	Current activity	Maintenance		
aurora	<span>Available</span>	Regional cluster	Aurora MySQL	us-west-2	1 instance	-	-	-	none		
aurora-instance-1	<span>Available</span>	Writer instance	Aurora MySQL	us-west-2a	db.t3.small	-	<div style="width: 0.00%;">0.00%</div>	0.00%	none		

Home Course Modules: AWS re/Start 274-[DF]-Lab - Introduction Workbench Vocareum Labs Databases - RDS Management

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

Services Search results for 'ec2' Try searching with longer queries for more relevant results

Successfully completed You can use services How was your experience?

Introducing Aurora's I/O-Optimized Databases

RDS > Data Services

EC2 Services (13) Features (53) Resources New Documentation (32,900) Knowledge Articles (20) Marketplace (2,494) Blogs (2,012) Events (30) Tutorials (21)

EC2 Virtual Servers in the Cloud

Top features Dashboard Launch templates Instances Spot Instance requests Savings plans

EC2 Image Builder A managed service to automate build, customize and deploy OS images

Recycle Bin Protect resources from accidental deletion

Amazon Inspector Continual vulnerability management at scale

See all 13 results ►

See all 53 results ►

View connection details

% costs savings for I/O-intensive applications.

Creates a staging environment for changes to

Restore from S3 Create database

< 1 >

Current activity Maintenance

0.00%

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Ara

03:10 17.08.2023

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1 'EC2' yaz  
2 'EC2' servisini aç

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Home:

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

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New EC2 Experience Tell us what you think X

**EC2 Dashboard**

EC2 Global View

Events

**Instances**

Instances **Instances** ←

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

**Images**

AMIs

AMI Catalog

**Elastic Block Store**

Volumes

**Resources**

You are using the following Amazon EC2 resources in the US West (Oregon) Region:

Instances (running)	1	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	1	Key pairs	1
Load balancers	0	Placement groups	0	Security groups	4
Snapshots	0	Volumes	1		

**Account attributes**

**Default VPC** vpc-00d5d27a68d6632c3

**Settings**

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

**Explore AWS**

Get Up to 40% Better Price Performance

T4g instances deliver the best price performance for burstable general purpose workloads in Amazon EC2.

[Learn more](#)

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity.

[Learn more](#)

**Launch instance**

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

**Service health**

AWS Health Dashboard

Region: US West (Oregon)

Status

[https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:](https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances)

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:

Services Search [Alt+S]

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New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes

CloudShell Feedback Language

28°C Kışmen güneşli Ara

Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

Instances (1/1) Info Connect Instance state Actions Launch instances

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Command Host	i-067de00709cbf5d13	Running	t3.medium	✓ /2 checks passed	No alarms	us-west-2a	ec2-54-202-215-

1 2

Instance: i-067de00709cbf5d13 (Command Host)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-067de00709cbf5d13 (Command Host)	54.202.215.106   open address	10.0.0.59
IPv6 address	Instance state	Public IPv4 DNS
-	✓ Running	ec2-54-202-215-106.us-west-2.compute.amazonaws.com   open address
Hostname type	Private IP DNS name (IPv4 only)	

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-067de00709cbf5d13

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Ser...

EC2 Instances i-067de00709cbf5d13 Connect to instance

## Connect to instance Info

Connect to your instance i-067de00709cbf5d13 (Command Host) using any of these options

**EC2 Instance Connect** **Session Manager** **SSH client** **EC2 serial console**

Instance ID  i-067de00709cbf5d13 (Command Host)

Connection Type  Connect using EC2 Instance Connect  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

Connect using EC2 Instance Connect Endpoint  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address  54.202.215.106

User name  ec2-user

**Note:** In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-067de00709cbf5d13

Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

CloudFormation EC2 S3 RDS EFS CloudWatch IAM Amazon Redshift VPC Route 53 CloudFront Certificate Manager Elastic Beanstalk Lambda API Gateway Simple Queue Ser

EC2 Instances i-067de00709cbf5d13 Connect to instance

## Connect to instance Info

Connect to your instance i-067de00709cbf5d13 (Command Host) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Session Manager usage:

- Connect to your instance without SSH keys, a bastion host, or opening any inbound ports.
- Sessions are secured using an AWS Key Management Service key.
- You can log session commands and details in an Amazon S3 bucket or CloudWatch Logs log group.
- Configure sessions on the Session Manager [Preferences](#) page.

Cancel **Connect**

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03:12 17.08.2023

us-west-2.console.aws.amazon.com/systems-manager/session-manager/i-067de00709cbf5d13?region=us-west-2#

Session ID: user2700240=\_Student\_View\_\_Oguzhan\_H\_z\_\_roglu-0e6b3b932f6fb00b4 Instance ID: i-067de00709cbf5d13

Terminate

sh-4.2\$ sudo yum install mariadb -y

1 sudo yum install mariadb -y komutunu yaz ve ardından ENTER'a bas

2

28°C Kışmen güneşli Ara

Ara

03:13 17.08.2023

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-067de00709cbf5d13

Services Services Search results for 'RDS' Try searching with longer queries for more relevant results

EC2 > Instances Services (14) Features (32) Resources New Documentation (18,557) Knowledge Articles (20) Marketplace (516) Blogs (1,920) Events (40) Tutorials (17)

Session ID RDS ★ Managed Relational Database Service Top features Dashboard Databases Query Editor Performance Insights Snapshots

AWS FIS Improve resiliency and performance with controlled experiments.

Database Migration Service Managed Database Migration Service

Kinesis Work with Real-Time Streaming Data

Features See all 32 results ► Reserved instances

1 'RDS' yaz 2 'RDS' servisini aç

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2

AWS Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_roglu @ 4965...

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## Amazon RDS

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.

**Databases** 'Databases' butonuna tıkla

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 [Preview](#)

Events Event subscriptions

**Resources** Refresh

You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota)

<b>DB Instances</b> (1/40)	<b>Parameter groups</b> (2)
Allocated storage (0 TB/100 TB)	Default (2)
<a href="#">Increase DB instances limit</a>	Custom (0/100)
<b>DB Clusters</b> (1/40)	<b>Option groups</b> (1)
<b>Reserved instances</b> (0/40)	Default (1)
<b>Snapshots</b> (0)	Custom (0/20)
Manual	<b>Subnet groups</b> (1/50)
<b>DB Cluster</b> (0/100)	<b>Supported platforms</b> <a href="#">VPC</a>

**Recommended for you**

**Test Your DR Strategy in Minutes**  
Amazon Aurora Global Database now supports planned managed failover, making disaster recovery drills a breeze. [Learn more](#)

**Amazon RDS Backup and Restore using AWS Backup**  
Learn how to backup and restore Amazon RDS databases using AWS Backup in just 10 minutes. [Learn more](#)

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

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## Amazon RDS

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RDS > Databases

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DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	CU
aurora	Available	Regional cluster	Aurora MySQL	us-west-2	1 instance	3 Actions	-	-
aurora-instance-1	Available	Writer instance	Aurora MySQL	us-west-2a	db.t3.small	-	11.79%	-

'aurora' hyperlinkine tıkla (İçine gir)

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#database:id=aurora;is-cluster=true

AWS Services Search [Alt+S] Oregon voclabs/user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogli @ 4965...

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## Amazon RDS

Related

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU
aurora	Available	Regional cluster	Aurora MySQL	us-west-2	1 instance	3 Actions	-
aurora-instance-1	Available	Writer instance	Aurora MySQL	us-west-2a	db.t3.small	-	11.54%

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

Kopyala

### Endpoints (2)

Find resources

Name	Status	Type	Port
aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com	Available	Writer instance	3306
aurora.cluster-ro-cuji19devphp.us-west-2.rds.amazonaws.com	Available	Reader instance	3306

Actions Create custom endpoint

## 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 [Preview](#)

Events

Event subscriptions

### Related

Filter by databases

#### DB identifier

DB identifier	Status	Role	Eng
aurora	Available	Regional cluster	Aurora
aurora-instance-1	Available	Writer instance	Aurora

#### Connectivity & security

Not Defteri'ne yapıştır

#### Monitoring

#### Logs & events

#### Configuration

### Endpoints (2)

Find resources

Copied :name

aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com

aurora.cluster-ro-cuji19devphp.us-west-2.rds.amazonaws.com

Actions	Create custom endpoint
St 1, Süt 56	%100
Windows (CRLF)	UTF-8
1	Actions

St 1, Süt 56

%100

Windows (CRLF)

UTF-8

Actions

Create custom endpoint

< 1 >

Actions

Course Modules: AWS | 274-[DF]-Lab - Intro | Workbench | Vocareum Labs | Database Details - RD | AWS Systems Manager

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2040975&stepid=2040976&ownerid=2021067&permit=7&tide=1&version=0

Vocareum

AWS AWS Details

Used \$0 of \$10 00:38 Start Lab End Lab AWS Details

Oguzhan Hiziroglu

Bir önceki slaytta Not Defteri'ne yapıştırdığın Aurora cluster'ının endpointini Lab Talimatlarında belirtilen formata dönüştür ve ardından formatlı halini kopyala

EN-US

28. In the following command, replace <endpoint\_goes\_here> with the endpoint that you copied to your text editor.

```
mysql -u admin --password='admin123' -h <endpoint_goes_here>
```

Your command should look similar to the following:

```
mysql -u admin --password='admin123' -h mydbcluster.cluster-123456789012.us-west-2.rds.amazonaws.com
```

The MySQL Command-Line Client is a SQL shell which enables interaction with database engines. More information is available [here](#).

**Kopyala**

aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com

```
mysql -u admin --password='admin123' -h <endpoint_goes_here>
```

```
mysql -u admin --password='admin123' -h aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com
```

Copy the command

29. Return to the Session run the command you had copied in the previous step.



28°C Kışmen güneşli 03:20 17.08.2023

Session ID: Instance ID: i-067de00709cbf5d13

user2700240=Student\_View\_Oguzhan\_H\_z\_rogolu-0e6b3b932f6fb00b4

Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd amzn2-core | 3.7 kB 00:00:00

Resolving Dependencies

--> Running transaction check

--> Package mariadb.x86\_64 1:5.5.68-1.amzn2.0.1 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

---

Package	Arch	Version	Repository	Size
mariadb	x86_64	1:5.5.68-1.amzn2.0.1	amzn2-core	8.8 M

Installing:

mariadb x86\_64 1:5.5.68-1.amzn2.0.1

---

Transaction Summary

---

Install 1 Package

Total download size: 8.8 M

Installed size: 49 M

Downloading packages:

mariadb-5.5.68-1.amzn2.0.1.x86\_64.rpm | 8.8 MB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

  Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1

  Verifying : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1

Installed:

mariadb.x86\_64 1:5.5.68-1.amzn2.0.1

Complete!

sh-4.2\$ mysql -u admin --password='admin123' -h aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com

Yapıştır ve ENTER' bas

Session ID: Instance ID: i-067de00709cbf5d13

user2700240=Student\_View\_Oguzhan\_H\_z\_rogulu-0e6b3b932f6fb00b4

Package	Arch	Version	Repository	Size
mariadb	x86_64	1:5.5.68-1.amzn2.0.1	amzn2-core	8.8 M

Installing:

Transaction Summary

Install 1 Package

Total download size: 8.8 M  
Installed size: 49 M  
Downloading packages:  
mariadb-5.5.68-1.amzn2.0.1.x86\_64.rpm | 8.8 MB 00:00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1  
Verifying : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1

Installed:  
mariadb.x86\_64 1:5.5.68-1.amzn2.0.1

Complete!

sh-4.2\$ mysql -u admin --password='admin123' -h aurora.cluster-cuji19devph.us-west-2.rds.amazonaws.com  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MySQL connection id is 104  
Server version: 5.7.12 MySQL Community Server (GPL)  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> Veritabanına bağlandık

Session ID: Instance ID: i-067de00709cbf5d13

user2700240=Student\_View\_Oguzhan\_H\_z\_rogulu-0e6b3b932f6fb00b4

Package	Arch	Version	Repository	Size
mariadb	x86_64	1:5.5.68-1.amzn2.0.1	amzn2-core	8.8 M

Installing:

Transaction Summary

Install 1 Package

Total download size: 8.8 M  
Installed size: 49 M  
Downloading packages:  
mariadb-5.5.68-1.amzn2.0.1.x86\_64.rpm | 8.8 MB 00:00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1  
Verifying : 1:mariadb-5.5.68-1.amzn2.0.1.x86\_64 1/1

Installed:  
mariadb.x86\_64 1:5.5.68-1.amzn2.0.1

Complete!  
sh-4.2\$ mysql -u admin --password='admin123' -h aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MySQL connection id is 104  
Server version: 5.7.12 MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> SHOW DATABASES;

**SHOW DATABASES; komutunu yaz ve ardından ENTER'a bas**

Session ID: Instance ID: i-067de00709cbf5d13 Terminate

```
user2700240=_Student_View__Oguzhan_H_z_rogolu-
0e6b3b932f6fb00b4
Downloading packages:
mariadb-5.5.68-1.amzn2.0.1.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
    Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1
    Verifying  : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1

Installed:
  mariadb.x86_64 1:5.5.68-1.amzn2.0.1

Complete!
sh-4.2$ mysql -u admin --password='admin123' -h aurora.cluster-cujil9devphp.us-west-2.rds.amazonaws.com
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 104
Server version: 5.7.12 MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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            |
| world          |
+-----+
5 rows in set (0.00 sec)

MySQL [(none)]> USE world;
```

Mevcut veritabanını belirlemek ve doğru veritabanı instance'ıyla çalıştığımızdan emin olmak için **SHOW DATABASES;** komutunu kullandık

USE **world;** komutunu yaz ve ardından **ENTER'a bas.** Bu komut, artık tüm sorguların **world** isimli veritabanı üzerinde çalıştırılacağını belirtir.

Mevcut veritabanını belirlemek ve doğru veritabanı instance'ıyla çalıştığımızdan emin olmak için **SHOW DATABASES;** komutunu kullandık

**USE world;** komutunu yaz ve ardından **ENTER**'a bas. Bu komut, artık tüm sorguların **world** isimli veritabanı üzerinde çalıştırılacağını belirtir.

Session ID: Instance ID: i-067de00709cbf5d13 Terminate

```
user2700240=Student_View_Oguzhan_H_z_rogolu-  
0e6b3b932f6fb00b4  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
  Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1  
  Verifying : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1  
  
Installed:  
  mariadb.x86_64 1:5.5.68-1.amzn2.0.1  
  
Complete!  
sh-4.2$ mysql -u admin --password='admin123' -h aurora.cluster-cuji19devphp.us-west-2.rds.amazonaws.com  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MySQL connection id is 104  
Server version: 5.7.12 MySQL Community Server (GPL)  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
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            |  
| world          |  
+-----+  
5 rows in set (0.00 sec)  
  
MySQL [(none)]> USE world;  
Database changed ←  
MySQL [world]>
```

Session ID: Instance ID: i-067de00709cbf5d13

user2700240=Student\_View\_Oguzhan\_H\_z\_rogolu-0e6b3b932f6fb00b4

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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            |
| world          |
+-----+
5 rows in set (0.00 sec)

MySQL [(none)]> USE world;
Database changed
MySQL [world]> CREATE TABLE `country` (
    -> `Code` CHAR(3) NOT NULL DEFAULT '',
    -> `Name` CHAR(52) NOT NULL DEFAULT '',
    -> `Continent` enum('Asia', 'Europe', 'North America', 'Africa', 'Oceania', 'Antarctica', 'South America') NOT NULL DEFAULT 'Asia',
    -> `Region` CHAR(26) NOT NULL DEFAULT '',
    -> `SurfaceArea` FLOAT(10,2) NOT NULL DEFAULT '0.00',
    -> `IndepYear` SMALLINT(6) DEFAULT NULL,
    -> `Population` INT(11) NOT NULL DEFAULT '0',
    -> `LifeExpectancy` FLOAT(3,1) DEFAULT NULL,
    -> `GNP` FLOAT(10,2) DEFAULT NULL,
    -> `GNPold` FLOAT(10,2) DEFAULT NULL,
    -> `LocalName` CHAR(45) NOT NULL DEFAULT '',
    -> `GovernmentForm` CHAR(45) NOT NULL DEFAULT '',
    -> `Capital` INT(11) DEFAULT NULL,
    -> `Code2` CHAR(2) NOT NULL DEFAULT '',
    -> PRIMARY KEY (`Code`)
    -> );
```

**Tablomuzu oluşturuyoruz. Aşağıdaki komutu gir ve ENTER'a bas**



28°C Kışmen güneşli 03:23 17.08.2023

Session ID: Instance ID: i-067de00709cbf5d13

Terminate

user2700240=\_Student\_View\_Oguzhan\_H\_z\_rogolu-  
0e6b3b932f6fb00b4

```
MySQL [(none)]> SHOW DATABASES;  
+-----+  
| Database      |  
+-----+  
| information_schema |  
| mysql          |  
| performance_schema |  
| sys            |  
| world          |  
+-----+  
5 rows in set (0.00 sec)
```

```
MySQL [(none)]> USE world;
```

Database changed

```
MySQL [world]> CREATE TABLE `country` (  
    -> `Code` CHAR(3) NOT NULL DEFAULT '',  
    -> `Name` CHAR(52) NOT NULL DEFAULT '',  
    -> `Continent` enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') NOT NULL DEFAULT 'Asia',  
    -> `Region` CHAR(26) NOT NULL DEFAULT '',  
    -> `SurfaceArea` FLOAT(10,2) NOT NULL DEFAULT '0.00',  
    -> `IndepYear` SMALLINT(6) DEFAULT NULL,  
    -> `Population` INT(11) NOT NULL DEFAULT '0',  
    -> `LifeExpectancy` FLOAT(3,1) DEFAULT NULL,  
    -> `GNP` FLOAT(10,2) DEFAULT NULL,  
    -> `GNPOld` FLOAT(10,2) DEFAULT NULL,  
    -> `LocalName` CHAR(45) NOT NULL DEFAULT '',  
    -> `GovernmentForm` CHAR(45) NOT NULL DEFAULT '',  
    -> `Capital` INT(11) DEFAULT NULL,  
    -> `Code2` CHAR(2) NOT NULL DEFAULT '',  
    -> PRIMARY KEY (`Code`)  
    -> );
```

Query OK, 0 rows affected (0.04 sec)

Tablomuz oluştu

Session ID: Instance ID: i-067de00709cbf5d13 Terminate

user2700240=Student\_View\_Oguzhan\_H\_z\_rogulu-0e6b3b932f6fb00b4

```
-> `Population` INT(11) NOT NULL DEFAULT '0',
-> `LifeExpectancy` FLOAT(3,1) DEFAULT NULL,
-> `GNP` FLOAT(10,2) DEFAULT NULL,
-> `GNPold` FLOAT(10,2) DEFAULT NULL,
-> `LocalName` CHAR(45) NOT NULL DEFAULT '',
-> `GovernmentForm` CHAR(45) NOT NULL DEFAULT '',
-> `Capital` INT(11) DEFAULT NULL,
-> `Code2` CHAR(2) NOT NULL DEFAULT '',
-> PRIMARY KEY (`Code`)
-> );
```

**Query OK, 0 rows affected (0.04 sec)**

```
MySQL [world]> INSERT INTO `country` VALUES ('GAB', 'Gabon', 'Africa', 'Central Africa', 267668.00, 1960, 1226000, 50.1, 5493.00, 5279.00, 'Le Gabon', 'Republic', 902, 'GA');
```

**Query OK, 1 row affected (0.00 sec)**

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('IRL', 'Ireland', 'Europe', 'British Islands', 70273.00, 1921, 3775100, 76.8, 75921.00, 73132.00, 'Ireland/Éire', 'Republic', 1447, 'IE');
```

**Query OK, 1 row affected (0.01 sec)**

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('THA', 'Thailand', 'Asia', 'Southeast Asia', 513115.00, 1350, 61399000, 68.6, 116416.00, 153907.00, 'Prathet Thai', 'Constitutional Monarchy', 3320, 'TH');
```

**Query OK, 1 row affected (0.01 sec)**

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('CRI', 'Costa Rica', 'North America', 'Central America', 51100.00, 1821, 4023000, 75.8, 10226.00, 9757.00, 'Costa Rica', 'Republic', 584, 'CR');
```

**Query OK, 1 row affected (0.01 sec)**

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('AUS', 'Australia', 'Oceania', 'Australia and New Zealand', 7741220.00, 1901, 18886000, 79.8, 351182.00, 392911.00, 'Australia', 'Constitutional Monarchy, Federation', 135, 'AU');
```

**Query OK, 1 row affected (0.01 sec)**

```
MySQL [world]>
```

**INSERT INTO komutu ile tablomuza veri ekliyoruz**

Session ID: Instance ID: i-067de00709cbf5d13

**Terminate**

user2700240=Student\_View\_Oguzhan\_H\_z\_rogolu-0e6b3b932f6fb00b4

```
-> `Population` INT(11) NOT NULL DEFAULT '0',
-> `LifeExpectancy` FLOAT(3,1) DEFAULT NULL,
-> `GNP` FLOAT(10,2) DEFAULT NULL,
-> `GNPOld` FLOAT(10,2) DEFAULT NULL,
-> `LocalName` CHAR(45) NOT NULL DEFAULT '',
-> `GovernmentForm` CHAR(45) NOT NULL DEFAULT '',
-> `Capital` INT(11) DEFAULT NULL,
-> `Code2` CHAR(2) NOT NULL DEFAULT '',
-> PRIMARY KEY (`Code`)
-> );
```

**Query OK, 0 rows affected (0.04 sec)**

```
MySQL [world]> INSERT INTO `country` VALUES ('GAB','Gabon','Africa','Central Africa',267668.00,1960,1226000,50.1,5493.00,5279.00,'Le Gabon','Republic',902,'GA');
Query OK, 1 row affected (0.00 sec)
```

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('IRL','Ireland','Europe','British Islands',70273.00,1921,3775100,76.8,75921.00,73132.00,'Ireland/Éire','Republic',1447,'IE');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('THA','Thailand','Asia','Southeast Asia',513115.00,1350,61399000,68.6,116416.00,153907.00,'Prathet Thai','Constitutional Monarchy',3320,'TH');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('CRI','Costa Rica','North America','Central America',51100.00,1821,4023000,75.8,10226.00,9757.00,'Costa Rica','Republic',584,'CR');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('AUS','Australia','Oceania','Australia and New Zealand',7741220.00,1901,18886000,79.8,351182.00,392911.00,'Australia','Constitutional Monarchy, Federation',135,'AU');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]> SELECT * FROM country WHERE GNP > 35000 and Population > 10000000;
```

**Sorgumuzu çalışıralım**

Session ID: Instance ID: i-067de00709cbf5d13  
user2700240=\_Student\_View\_\_Oguzhan\_H\_z\_roglu-  
0e6b3b932f6fb00b4

## Terminate

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('IRL','Ireland','Europe','British Islands',70273.00,1921,3775100,76.8,75921.00,73132.00,'Ireland/Éire','Republic',1447,'IE');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]> INSERT INTO `country` VALUES ('THA', 'Thailand', 'Asia', 'Southeast Asia', 513115.00, 1350, 61399000, 68.6, 116416.00, 153907.00, 'Prathet Thai', 'Constitutional Monarchy', 3320, 'TH');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]> INSERT INTO `country` VALUES ('CRI','Costa Rica','North America','Central America',51100.00,1821,4023000,75.8,10226.00,9757.00,'Costa Rica','Republic',584,'CR');
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [world]>
MySQL [world]> INSERT INTO `country` VALUES ('AUS','Australia','Oceania','Australia and New Zealand',7741220.00,1901,18886000,79.8,351182.00,392911.00,'Australia','Constitutional Monarchy, Federation',135,'AU');
Query OK, 1 row affected (0.01 sec)
```

MvSOT> [world]>

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2040975&stepid=2040976&ownerid=2021067&permit=7&tide=1&version=0

Vocareum Home My Classes Manage Help Oguzhan Hiziroglu

AWS Used \$0 of \$10 00:32 Start Lab End Lab AWS Details

- Connected to a pre-created Amazon Elastic Compute Cloud (Amazon EC2) instance
- Configured the Amazon EC2 instance to connect to Aurora
- Queried the Aurora instance

**Lab complete** 

35. Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.

36. An **Ended AWS Lab Successfully** message is briefly displayed indicating that the lab has ended.

## Additional resources

- [Amazon RDS Multi-AZ Deployments](#)
- [Working with an Amazon RDS DB Instance in a VPC](#)
- [What Is Amazon VPC?](#)
- [Encrypting Amazon RDS Resources](#)
- [Enhanced Monitoring](#)
- [Amazon EC2 Key Pairs](#)

For more information about AWS Training and Certification, see [AWS Training and Certification](#).

*Your feedback is welcome and appreciated.*

If you would like to share any suggestions or corrections, please provide the details in our [AWS Training and Certification Contact Form](#).

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2040975&stepid=2040976&ownerid=2021067&permit=7&tide=1&version=0

Vocareum My Classes Manage Help Oguzhan Hiziroglu

AWS Used \$0 of \$10 00:31 Start Lab End Lab AWS Details

Are you sure you want to end the lab?

Yes No

**Lab complete**

35. Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.

36. An **Ended AWS Lab Successfully** message is briefly displayed indicating that the lab has ended.

**Additional resources**

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Your feedback is welcome and appreciated.

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Vocareum

AWS

Used \$0 of \$10 00:31 Start Lab End Lab AWS Details

- Connected to a pre-created Amazon Elastic Compute Cloud (Amazon EC2) instance
- Configured the Amazon EC2 instance to connect to Aurora
- Queried the Aurora instance

## Lab complete

- Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.
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Vocareum

AWS

Used \$0 of \$10 00:00 Start Lab End Lab AWS Details

- Connected to a pre-created Amazon Elastic Compute Cloud (Amazon EC2) instance
- Configured the Amazon EC2 instance to connect to Aurora
- Queried the Aurora instance

## Lab complete

- Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.
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Oguzhan  
Selcuk  
Hiziroglu

*Bu çalışma Oğuzhan Selçuk Hızıroğlu tarafından AWS re/Start Cohort-2 öğrencileri için hazırlanmıştır.*