

School: CLOUDBOOSTA	Course: Cloud Computing
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Tasks:

1. Create AWS RDS DB subnet group
2. Create Oracle RDS parameter group
3. Create Oracle RDS option group
4. Configure Oracle RDS database deployment
5. Configure Oracle database credentials
6. Configure RDS networking and connectivity
7. Configure Oracle RDS monitoring and backup settings
8. Create Oracle RDS database instance
9. Verify RDS security group configuration
10. Launch EC2 command host instance
11. Connect to EC2 instance using SSM Session Manager
12. Verify Oracle RDS database availability
13. Connect to Oracle database using SQLPlus
14. Create database tables in Oracle RDS
15. Verify successful table creation

Goal:

To deploy and configure an Oracle RDS database instance on AWS, establish secure networking and connectivity, connect using SQLPlus from an EC2 command host, and perform database administration tasks in a cloud-based DevOps environment.

Result:

- Oracle RDS DB subnet group successfully created
- Oracle RDS parameter group successfully configured
- Oracle RDS option group successfully configured
- Oracle RDS database deployed successfully
- Oracle database credentials configured successfully
- Oracle RDS networking and connectivity configured successfully
- Oracle RDS monitoring and backup settings configured successfully
- Oracle database instance successfully created
- RDS security groups configured successfully
- EC2 command host launched successfully
- SSM Session Manager connection established successfully
- Oracle database connection validated successfully
- PRODUCTS table successfully created
- ORDERS table successfully created
- Oracle database tables verified successfully

Action:

Step 1: Created RDS DB Subnet Group

- Opened:
 - Aurora and RDS → Subnet groups
- Selected:
 - Create DB subnet group
- Configured:
- Name:
 - rds-subnet-group
- Description:
 - Subnet group for RDS Oracle instance
- Selected LabVPC
- Added:
 - DatabaseSubnet1
 - DatabaseSubnet2

Step 2: Created Oracle Parameter Group

- Opened:
 - Aurora and RDS → Parameter groups
- Selected:
 - Create parameter group

- Configured:
 - Parameter group name:
my-oracle-db-parameter-group
- Description:
Custom parameter group for Oracle RDS instance
- Engine type:
Oracle Standard Edition Two
- Parameter family:
oracle-se2-19

Step 3: Verified Parameter Group Creation

- Confirmed successful parameter group creation
- Verified parameter group listed under:
Custom parameter groups

Step 4: Created Oracle Option Group

- Opened:
Aurora and RDS → Option groups
- Selected:
Create option group
- Configured:
 - Name:
e-commerce-oracle-options
- Description:
Oracle RDS option group for e-commerce application
- Engine:
oracle-se2
- Major engine version:
19

Step 5: Configured Oracle Database Engine

- Opened:
Create database
- Selected:
Oracle database engine
- Chose:
 - Full configuration method
 - Dev/Test template

- Oracle Standard Edition Two
- License model:
Bring Your Own License (BYOL)
- Selected Oracle engine version 19c

Step 6: Configured Database Credentials

- Configured master username:
admin
- Set self-managed master password
- Configured password authentication
- Verified credential configuration successfully

Step 7: Configured Instance and Storage Settings

- Selected DB instance class:
db.t3.small
- Configured storage type:
General Purpose SSD (gp3)
- Allocated storage:
200 GB
- Configured Provisioned IOPS:
3000
- Configured storage throughput:
125 MiB/s

Step 8: Configured Connectivity and Networking

- Selected:
Don't connect to an EC2 compute resource
- Configured:
 - Network type:
IPv4
- Selected LabVPC
- Selected DB subnet group:
rds-subnet-group
- Configured:
No public access
- Selected VPC security group:
RDSSecurityGroup

Step 9: Configured Monitoring and Backup

- Enabled:
Database Insights – Standard
- Configured:
 - DB parameter group:
my-oracle-db-parameter-group
- Option group:
e-commerce-oracle-options
- Database name:
mydb
- Enabled automated backups
- Configured backup retention period:
7 days

Step 10: Created Oracle Database

- Reviewed estimated monthly cost
- Clicked:
Create database
- Initiated Oracle RDS deployment successfully

Step 11: Verified RDS Security Group

- Opened EC2 Security Groups
- Verified:
RDSSecurityGroup
- Confirmed Oracle listener port:
1521
- Verified inbound rules configured successfully

Step 12: Launched EC2 Command Host

- Opened EC2 Console
- Verified command host instance:
Commandhost
- Confirmed instance state:
Running
- Verified instance health checks passed successfully

Step 13: Connected Using SSM Session Manager

- Opened:
EC2 → Connect → SSM Session Manager
- Verified SSM agent status:
Online
- Established successful Session Manager connection

Step 14: Verified Oracle RDS Database Availability

- Opened:
Aurora and RDS → Databases
- Verified database:
oracle-db
- Confirmed status:
Available

Step 15: Reviewed Oracle Database Connectivity

- Opened Oracle database connectivity section
- Verified:
 - Endpoint and port
 - VPC configuration
 - Security group attachment
 - Availability zone
 - Connectivity settings

Step 16: Connected to Oracle Database Using SQLPlus

- Connected to Oracle database from command host
- Used SQLPlus for database connection
- Verified Oracle Database 19c connection established successfully

Step 17: Created PRODUCTS Table

- Executed SQL command:

CREATE TABLE PRODUCTS (

```
PRODUCT_ID NUMBER PRIMARY KEY,  
NAME VARCHAR2(100),  
PRICE NUMBER(10,2),  
STOCK NUMBER  
);
```

- Verified table creation success message:
Table created.

Step 18: Created ORDERS Table

- Executed SQL command:

```
CREATE TABLE ORDERS (  
ORDER_ID NUMBER PRIMARY KEY,  
ORDER_DATE DATE,  
CUSTOMER_ID NUMBER,  
TOTAL_AMOUNT NUMBER(10,2)  
);
```

- Verified successful ORDERS table creation

Step 19: Verified Database Tables

- Executed SQL query:

```
SELECT TABLE_NAME FROM USER_TABLES;
```

- Verified tables returned:
 - PRODUCTS
 - ORDERS

Summary

- Oracle RDS infrastructure was successfully deployed on AWS Cloud
- RDS subnet groups, parameter groups, and option groups configured successfully
- Oracle database networking and security configured successfully

- EC2 command host connected successfully using SSM Session Manager
- Oracle database connectivity validated successfully using SQLPlus
- PRODUCTS and ORDERS tables created successfully in Oracle RDS
- Database administration and SQL operations executed successfully
- AWS cloud database deployment and management workflow validated successfully

Lab objective achieved:

Implemented Oracle RDS deployment, secure networking configuration, EC2-based database access, and SQL database administration successfully within AWS cloud infrastructure in a DevOps environment.

Create DB subnet group

To create a new subnet group, give it a name and a description, and choose an existing VPC. You will then be able to add subnets related to that VPC.

Subnet group details

Name

You won't be able to modify the name after your subnet group has been created.

rds-subnet-group

Must contain from 1 to 255 characters. Alphanumeric characters, spaces, hyphens, underscores, and periods are allowed.

Description

Subnet group for RDS Oracle instance

VPC

Choose a VPC identifier that corresponds to the subnets you want to use for your DB subnet group. You won't be able to choose a different VPC identifier after your subnet group has been created.

LabVPC (vpc-067c314c612b0a291)

6 Subnets, 2 Availability Zones

Add subnets

Availability Zones

Choose the Availability Zones that include the subnets you want to add.

Choose an availability zone

eu-west-2a

eu-west-2b

Subnets

Choose the subnets that you want to add. The list includes the subnets in the selected Availability Zones.

Select subnets

DatabaseSubnet1

Subnet ID: subnet-05a16f4f723243b14 CIDR: 10.0.4.0/24

DatabaseSubnet2

Subnet ID: subnet-04fb14705ad9746e8 CIDR: 10.0.5.0/24

For Multi-AZ DB clusters, you must select 3 subnets in 3 different Availability Zones.

Subnets selected (2)

Availability zone	Subnet name	Subnet ID	CIDR block
eu-west-2a	DatabaseSubnet1	subnet-05a16f4f723243b14	10.0.4.0/24
eu-west-2b	DatabaseSubnet2	subnet-04fb14705ad9746e8	10.0.5.0/24

Cancel

Create

✔ Successfully created rds-subnet-group. [View subnet group](#)

✕

Create parameter group

Parameter group details

Parameter group name

The name must have 1 to 255 characters and begin with a letter. The name can't end with a hyphen or contain two consecutive hyphens. Valid characters: A-Z, a-z, 0-9, and - (hyphen)

Description

This description appears in the Parameter groups dashboard. You can use it to quickly identify the purpose of the parameter group.

Engine type

Parameter group family

You can associate a DB parameter group with only one DB parameter group family. You can apply the parameter group only to a DB instance whose DB engine is compatible with the parameter group family.

[Cancel](#)[Create](#)

Aurora and 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

Events

Event subscriptions

Recommendations 0

Certificate update

Successfully created rds-subnet-group. [View subnet group](#)

Parameter groups [Info](#)

Custom Default

Custom parameter groups (1)

Actions

Create parameter group

☐

Name

Family

Type

Description

☐

[my-oracle-rds-parameter-group](#)

oracle-se2-19

DB instance parameter group

Custom parameter group for Oracle RDS in

Successfully created rds-subnet-group. [View subnet group](#)

Create option group

Option group details

Info

Name

e-commerce-oracle-options

Description

Oracle RDS option group for e-commerce application

Engine

oracle-se2

Major Engine Version

19

Cancel

Create



[e-commerce-oracle-options](#)

Oracle RDS option group for e-commerce application

Oracle Standard Edition Two

19

Successfully created option group **e-commerce-oracle-options**. [View option group](#)

0 0 0 2 0 0 0

Create database [Info](#)

Engine options

Engine type [Info](#)

☐ Aurora (MySQL Compatible)



☐ Aurora (PostgreSQL Compatible)



☐ MySQL



☐ PostgreSQL



☐ MariaDB



☒ Oracle

ORACLE

☐ Microsoft SQL Server



☐ IBM Db2

IBM Db2

Choose a database creation method

☒ Full configuration

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.

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

Architecture settings [Info](#)

☐ Oracle multitenant architecture

A container database (CDB) includes one or more tenant databases (PDBs). A non-CDB doesn't use the multitenant architecture. You can convert a non-CDB to a CDB, but you can't convert a CDB to a non-CDB.

Edition

☐ Oracle Enterprise Edition

Affordable and full-featured database management system.

☒ Oracle Standard Edition Two

Affordable and full-featured database management system supporting up to 16 vCPUs. Oracle Database Standard Edition Two is a replacement for Standard Edition and Standard Edition One.

License

Bring Your Own License (BYOL)

Engine version

Oracle 19.0.0.0.ru-2026-01.ru-2026-01.r3

☒ Spatial Patch Bundle Engine Versions

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

oracle-db

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in 'mydbinstance'). Constraints: 1 to 63 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.

admin

1 to 16 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.
- ☐ **Auto generate password**
Amazon RDS can generate a password for you, or you can specify your own password.

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

Master password [Info](#)

Password strength [Very strong](#)

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

Confirm master password [Info](#)

▼ Additional credentials settings

Database authentication options [Info](#)

- ☒ **Password authentication**
Authenticates using database passwords.
- ☐ **Password and Kerberos authentication**
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

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**
- ☒ **Include additional memory configurations** [Info](#)
- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ **Burstable classes (includes t classes)**

Instance type

db.t3.small
2 vCPUs 2 GiB RAM EBS Bandwidth: Up to 2,085 Mbps Network: Up to 5 Gbps

Storage

Storage type [Info](#)

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp3)
Performance scales independently from storage.

Allocated storage [Info](#)

200 GiB

Minimum: 20 GiB. Maximum: 32,768 GiB

Provisioned IOPS [Info](#)

12000 IOPS

Baseline IOPS of 12,000 IOPS is included for allocated storage of 200 GiB or greater. Provisioned IOPS value must be 12,000 IOPS to 64,000 IOPS. The IOPS to GiB ratio must be between 0 and 500

Storage throughput [Info](#)

500 MiBps

Baseline storage throughput of 500 MiBps is included for allocated storage of 200 GiB or greater. Minimum: 500 MiBps. Maximum: 4,000 MiBps

Additional storage configuration

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

- ☒ **Enable storage autoscaling**
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

1000 GiB

Allocated storage value must be 220 GiB to 32,768 GiB

► Additional storage volumes - *optional* [Info](#)

Availability & durability

Multi-AZ deployment [Info](#)

- ☒ Create a standby instance (recommended for production usage)
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
- ☐ Do not create a standby instance

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 instance.

LabVPC (vpc-067c314c612b0a291)

6 Subnets, 2 Availability Zones

After a database is created, you can't change its VPC. 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.

rds-subnet-group

2 Subnets, 2 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

VPCStack-RDSSecurityGroup-5qgH7GVsy9rF

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.

rds-ca-rsa2048-g1 (default)

Expiry: May 22, 2061

If you don't select a certificate authority, RDS chooses one for you.

► Additional configuration

Tags - *optional*

A tag consists of a case-sensitive key-value pair.

No tags associated with the resource.

[Add new tag](#)

Monitoring [Info](#)

Choose monitoring tools for this database. Database Insights provides a combined view of Performance Insights and Enhanced Monitoring for your fleet of databases. **Database Insights** pricing is separate from RDS monthly estimates. See [Amazon CloudWatch pricing](#) [↗](#).

☐ Database Insights - Advanced

- Retains 15 months of performance history
- Fleet-level monitoring
- Integration with CloudWatch Application Signals

☒ Database Insights - Standard

- Retains 7 days of performance history, with the option to pay for the retention of up to 24 months of performance history

Performance Insights

☐ Enable Performance Insights

With Performance Insights dashboard, you can visualize the database load on your Amazon RDS DB instance load and filter the load by waits, SQL statements, hosts, or users.

▼ Additional monitoring settings

Enhanced Monitoring, CloudWatch Logs and DevOps Guru

Enhanced Monitoring

☐ Enable Enhanced monitoring

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

Log exports

Select the log types to publish to Amazon CloudWatch Logs

- ☐ Alert log
- ☐ Audit log
- ☐ Listener log
- ☐ Oracle Management Agent log
- ☐ Trace log

IAM role

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

RDS service-linked role

▼ Additional configuration

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

Database options

Initial database name [Info](#)

myddb

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

DB parameter group [Info](#)

my-oracle-rds-parameter-group

Option group [Info](#)

e-commerce-oracle-options

Character set

AL32UTF8

Backup

☒ Enable automated backup

Creates a point-in-time snapshot of your database.

Backup retention period [Info](#)

The number of days (1-35) for which automatic backups are kept.

7

days

Backup window [Info](#)

The daily time range (in UTC) during which RDS takes automated backups.

- ☐ Choose a window
- ☒ No preference

Backup tags [Info](#)

Copies tags from the source database to the automated backup and snapshots respectively.

☐ Copy tags to automated backup

This is a one-time setting. Future tag modifications need manual updates.

☒ Copy tags to snapshots

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.
- ☐ **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](#)

Maintenance

Auto minor version upgrade [Info](#)

- ☐ **Enable auto minor version upgrade**
Enabling auto minor version upgrade will automatically upgrade your database minor version. For limitations and more details, see [Automatically upgrading the minor engine version documentation](#).

Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

- ☐ Choose a window
- ☒ No preference

- ☐ **Enable deletion protection**
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

Estimated monthly costs

DB instance	55.48 USD
Storage	53.20 USD
Total	108.68 USD

This billing estimate is based on on-demand usage as described in [Amazon RDS Pricing](#). Estimate does not include costs for backup storage, I/Os (if applicable), or data transfer.

Estimate your monthly costs for the DB Instance using the [AWS Simple Monthly Calculator](#).

 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](#)

<

Events

Capacity Manager [New](#)

AMI Catalog

Lifecycle Manager

Network Interfaces

Trust Stores

Auto Scaling Groups

Settings

Create security group

< 1 >

[illegible]

< 1 > 

- EC2 > Instances
- EC2
- Dashboard
- AWS Global View
- Events
- Instances
- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- Capacity Manager
- 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
- Auto Scaling
- Auto Scaling Groups
- Settings

Instances (1) Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Saved filter sets

Choose filter set

Find Instance by attribute or tag (case-sensitive)

< 1 >

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
☐	CommandHost	i-068dd1d6d4267bcf4	Running	t3.micro	3/3 checks passed	View alarms

Select an instance

Connect

Connect to an instance using the browser-based client.

Instance ID i-068dd1d6d4267bcf4 (CommandHost)	VPC ID vpc-067c314c612b0a291	Security groups sg-0271dcf9eea30b532 (VPCStack-AppInstanceSecurityGroup-X6lBBjGvofc)	IAM role three-tier-ec2-ssm-role
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- EC2 Instance Connect
- SSM Session Manager
- SSH client
- EC2 serial console

SSM agent status

Introducing Systems Manager just-in-time node access
Move towards zero standing privileges by requiring operators to request access before remotely connecting to instances. [Learn more](#)

Try for free

Ping status Online	Last ping time Sat May 09 2026 01:20:57 GMT+0300 (Eastern European Summer Time)	Session Manager connection status Connected	Agent version 3.3.859.0
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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

Session ID: cba_admin-23c5q6x5a8e7ia9g839jpa66tu

 [Shortcuts](#)

Instance ID: i-068dd1d6d4267bcf4

[Terminate](#)

```
sh-5.2$ sqlplus -version
```

```
SQL*Plus: Release 21.0.0.0.0 - Production  
Version 21.14.0.0.0
```

```
sh-5.2$ █
```

Aurora and 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

Events

Event subscriptions

Recommendations 0

Certificate update

Databases (1)   

Modify

Actions

Create database

 DB identifier

Status

Role

Engine

Up

 [oracle-db](#)

Available

Instance

Oracle Standard Edition T...

SE

Aurora and RDS

- Dashboard
- Databases
- Query editor
- Performance insights
- Snapshots
- Exports in Amazon S3
- Automated backups
- Reserved instances
- Proxies

- Subnet groups
- Parameter groups
- Option groups

oracle-db

Modify

Actions

You can upgrade to Oracle Database 21c and higher only if your DB engine uses the multitenant architecture. To convert your database to the multitenant architecture, choose **Modify** and then **Oracle Multitenant architecture**.

Summary

DB identifier oracle-db	Status Available	Role Instance	Engine Oracle Standard Edition Two
CPU 6.70%	Class db.t3.small	Current activity 0 Connections	Region & AZ eu-west-2a

Recommendations

Connectivity & security

Monitoring

Logs & events

Configuration

Zero-ETL integrations

Ma

Connect using

Info

- ☐ Code snippets
Use when connecting through SDK, APIs, or third party tools including agents.
- ☒ Endpoints
Use when connecting through any IDE interface.

Database name MYDB	Master username admin	Internet access gateway Disabled	Port 1521
------------------------------	---------------------------------	--	---------------------

Additional configurations

Connectivity & security

Endpoint & port

Endpoint
oracle-db.cdgowmasatg
e.eu-west-2.rds.amazonaws.c
om

Port
1521

Networking

Availability Zone
eu-west-2a

VPC
LabVPC (vpc-
067c314c612b0a291)

Subnet group
rds-subnet-group

Subnets
subnet-04fb14705ad9746e8
subnet-05a16f4f723243b14

Network type
IPv4

Security

VPC security groups
VPCStack-
RDSSecurityGroup-
5qgH7GVsy9rF (sg-
061e51f2d15fa67ce)
Active

Publicly accessible
No

Certificate authority Info
rds-ca-rsa2048-g1

Certificate authority date
May 22, 2061, 02:46
(UTC+03:00)

**DB instance certificate
expiration date**
May 09, 2029, 00:52
(UTC+03:00)

Connected compute resources (0)

Info

Actions

Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.

Filter by compute resources

< 1 >

Resource identifier

Resource type

Availability Zone

VPC security group

Compute resource security group

No connected compute resources

No connected compute resources that were created automatically to display.

Set up EC2 connection

Set up Lambda connection

Security group rules (2)

Filter by Security group rules

< 1 > ⚙

Security group	Type	Rule
VPCStack-RDSSecurityGroup-5qgH7GVsy9rF (sg-061e51f2d15fa67ce)	EC2 Security Group - Inbound	sg-0271dcf9cca30b532
VPCStack-RDSSecurityGroup-5qgH7GVsy9rF (sg-061e51f2d15fa67ce)	CIDR/IP - Outbound	0.0.0.0/0

Replication (1)

Filter by Replication

< 1 > ⚙

DB identifier	Role	Region & AZ	Replication source	Replication state	Lag
oracle-db	Instance	eu-west-2a	-	-	-

Manage IAM roles

Add IAM roles to this instance

Feature

Choose an IAM role to add

Choose a feature to add

Add role

Current IAM roles for this instance (0)

Delete

Role	Feature	Status
------	---------	--------

Session ID: cba_admin-23c5q6x5a8e7ia9g839jpa66tu

 Shortcuts

Instance ID: i-068dd1d6d4267bcf4

Terminate

```
sh-5.2$ sqlplus 'admin/Godis55good!@//oracle-db.cdgowmasatge.eu-west-2.rds.amazonaws.com:1521/mydb'
```

```
SQL*Plus: Release 21.0.0.0.0 - Production on Fri May 8 22:46:38 2026  
Version 21.14.0.0.0
```

```
Copyright (c) 1982, 2022, Oracle. All rights reserved.
```

```
Connected to:  
Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production  
Version 19.30.0.0.0
```

```
SQL> █
```

Session ID: cba_admin-23c5q6x5a8e7ia9g839jpa66tu



Instance ID: i-068dd1d6d4267bcf4

Terminate

INSTANCES					CACHE			TABLE_LO			
SAMPLE_SIZE	LAST_ANAL	PAR_IOT	TYPE		T	S	NES	BUFFER	FLASH_C	CELL_FL	ROW_MOVE
GLO_USE	DURATION		SKIP_COR	MON							
CLUSTER_OWNER											
DEPENDEN	COMPRESS	COMPRESS_FOR						DRO_REA	SEG_RESULT	CLU	
ACTIVITY_TRACKING		DML_TIMESTAMP						HAS_CON	INMEMORY	INMEMORY	
INMEMORY_DISTRI	INMEMORY_COMPRESS	INMEMORY_DUPL									
DEFAULT_COLLATION											
D_S_EXT	HYB_CELLMEMORY				CON	CON	EXT	EXT	INMEMORY_SER		
INMEMORY_SERVICE_NAME											
CON_MEMOPTIM	MEMOPTIM	HAS_ADM	DAT	LOGICAL							

10 rows selected.

SQL>

```
SQL> CREATE TABLE PRODUCTS (  
    PRODUCT_ID NUMBER PRIMARY KEY,  
    NAME VARCHAR2(100),  
    PRICE NUMBER(10,2),  
    STOCK NUMBER  
);
```

Table created.

```
SQL>
```

```
SQL> CREATE TABLE ORDERS (
    ORDER_ID NUMBER PRIMARY KEY,
    ORDER_DATE DATE,
    CUSTOMER_ID NUMBER,
    TOTAL_AMOUNT NUMBER(10,2)
);
```

Table created.

```
SQL> █
```

```
SQL> SELECT TABLE_NAME FROM USER_TABLES;
```

```
TABLE_NAME
```

```
-----  
PRODUCTS
```

```
ORDERS
```

```
SQL> █
```

```
SQL> INSERT ALL
      INTO products (product_id, name, price, stock) VALUES (1, 'Widget A', 19.99, 100)
      INTO products (product_id, name, price, stock) VALUES (2, 'Widget B', 29.99, 150)
      INTO products (product_id, name, price, stock) VALUES (3, 'Widget C', 9.99, 200)
      INTO products (product_id, name, price, stock) VALUES (4, 'Widget D', 39.99, 120)
      INTO products (product_id, name, price, stock) VALUES (5, 'Widget E', 49.99, 110)
      INTO products (product_id, name, price, stock) VALUES (6, 'Widget F', 59.99, 100)
SELECT * FROM dual;  2      3      4      5      6      7      8
```

6 rows created.

```
SQL> █
```

PRODUCT_ID

NAME

PRICE

STOCK

39.99

120

5

Widget E

49.99

110

6

PRODUCT_ID

NAME

PRICE

STOCK

Widget F

59.99

100

6 rows selected.

SQL>

```
SQL> COMMIT;
```

```
Commit complete.
```

```
SQL> █
```

```
SQL> SELECT (SELECT database_role FROM v$database) AS database_role,  
            host_name,  
            database_status  
FROM V$INSTANCE; 2      3      4
```

```
DATABASE_ROLE
```

```
-----
```

```
HOST_NAME
```

```
-----
```

```
DATABASE_STATUS
```

```
-----
```

```
PRIMARY
```

```
ip-172-16-2-114
```

```
ACTIVE
```

```
SQL> █
```

```
SQL> EXIT;
```

```
Disconnected from Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production  
Version 19.30.0.0.0
```

```
sh-5.2$ █
```

Reboot DB Instance

DB Instances
Are you sure you want to reboot these DB Instance(s)?

- oracle-db

☒ Reboot With Failover?

Cancel

Confirm

```
sh-5.2$ sqlplus 'admin/Godis55good!@//oracle-db.cdgowmasatge.eu-west-2.rds.amazonaws.com:1521/mydb'
```

```
SQL*Plus: Release 21.0.0.0.0 - Production on Fri May 8 23:11:22 2026  
Version 21.14.0.0.0
```

```
Copyright (c) 1982, 2022, Oracle. All rights reserved.
```

```
Last Successful login time: Fri May 08 2026 22:46:38 +00:00
```

```
Connected to:  
Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production  
Version 19.30.0.0.0
```

```
SQL> █
```

```
SQL> SELECT (SELECT database_role FROM v$instance) AS database_role,  
            host_name,  
            database_status  
FROM v$instance; 2      3      4
```

```
DATABASE_ROLE
```

```
HOST_NAME
```

```
DATABASE_STATUS
```

```
PRIMARY
```

```
ip-172-16-0-138
```

```
ACTIVE
```

```
SQL> 
```

```
PRODUCT_ID
-----
NAME
-----
      PRICE      STOCK
-----
      39.99      120
      5
Widget E
      49.99      110
      6
PRODUCT_ID
-----
NAME
-----
      PRICE      STOCK
-----
Widget F
      59.99      100

6 rows selected.

SQL> █
```

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

Delete oracle-db instance

Permanently delete **oracle-db** DB instance. You can't undo this action.

Warning: Proceeding with this action will delete the instance with all its content and can affect related resources. [Learn more](#)

☐ Create final snapshot
Determines whether a final DB Snapshot is created before the DB instance is deleted.

☐ Retain automated backups
Determines whether retaining automated backups for 7 days after deletion

☒ I acknowledge that upon instance deletion, automated backups, including system snapshots and point-in-time recovery, will no longer be available.

To avoid accidental deletion provide additional written consent.

To confirm deletion, type **delete me** into the field.

delete me

[Cancel](#) [Delete](#)

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Custom engine versions

Zero-ETL integrations

Events

Event subscriptions

Recommendations 0

Certificate update

Deleting DB Instance oracle-db

Databases (1) ☐ Group resources

Modify

Actions

Create database

☐ DB identifier	Status	Role	Engine	Up
<u>oracle-db</u>	Deleting	Instance	Oracle Standard Edition T...	SEt

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Events

Event subscriptions

Recommendations 0

Certificate update

Successfully deleted rds-subnet-group

0

0

2

0

0

Subnet groups (0)

Edit

Delete

Create DB subnet group

< 1 >

☒	Name	Description	Status	VPC
No db subnet groups You don't have any db subnet groups.				

Create DB subnet group

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Successfully deleted rds-subnet-group

0

0

2

0

0

Parameter groups [Info](#)

Custom

Default

Custom parameter groups (0)

Actions

Create parameter group

< 1 >

☒	Name	Family	Type	Description	ARN
No parameter group found					

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Parameter groups

Option groups

Successfully deleted option group e-commerce-oracle-options.

Option groups (4)

Refresh

Add option

Modify option

Delete option

Delete option group

Create group

Filter by option groups

< 1 >

	Name	Description	Engine	Engine version
☐	default:aurora-mysql-8-0	Default option group for aurora-mysql 8.0	Aurora MySQL	8.0
☐	default:mysql-8-0	Default option group for mysql 8.0	MySQL Community	8.0
☐	default:mysql-8-4	Default option group for mysql 8.4	MySQL Community	8.4
☐	default:oracle-se2-19	Default option group for oracle-se2 19	Oracle Standard Edition Two	19