

# Upgrading AWS MySQL RDS 5.7 to 8.0



#### Introduction

Upgrading your AWS MySQL RDS instance from version 5.7 to 8.0 can bring significant performance improvements and new features. This comprehensive guide will walk you through the steps to successfully upgrade your MySQL RDS instance to version 8.0.

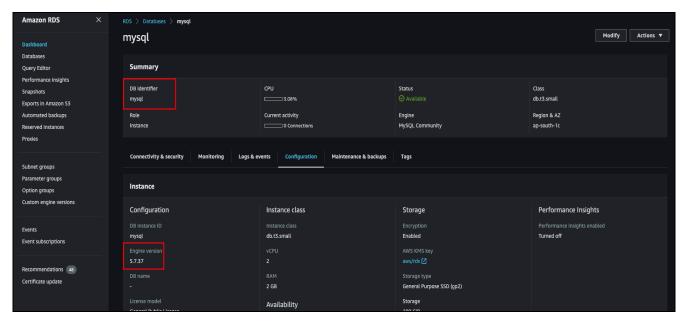
### **Preparation Steps**

- 1. Ensure that the OvalEdge version is updated.
- 2. Stop the Apache Tomcat and MySQL RDS services.
- 3. Take a snapshot of the RDS instance to create a backup before upgrading.

## **Upgrade Steps**

Assuming that your AWS MySQL RDS instance is currently running on version 5.7, as shown in the screenshot below:

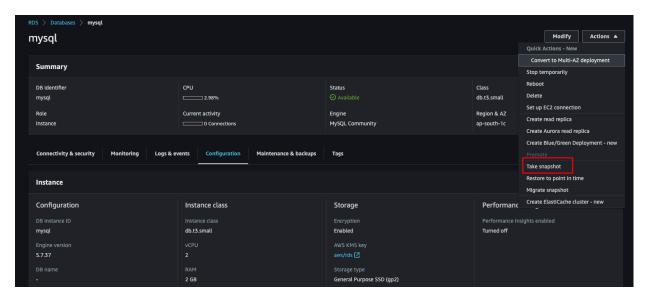
#### MySQL 5.7 running in RDS





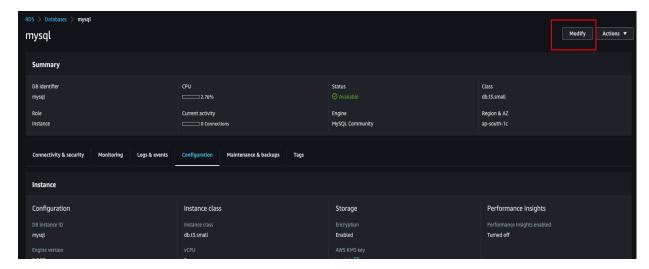
To proceed with the upgrade, follow the steps outlined below.

- 1. Open the AWS Management Console and navigate to the RDS service.
- 2. Click on the "**Actions**" button and select "**Take snapshot**" to create a backup of the RDS instance.



# **Upgrade RDS Instance**

- Once the snapshot process is completed, wait for the RDS instance to become available.
- Go to the RDS console, select the RDS instance you wish to upgrade, and click on "Modify."





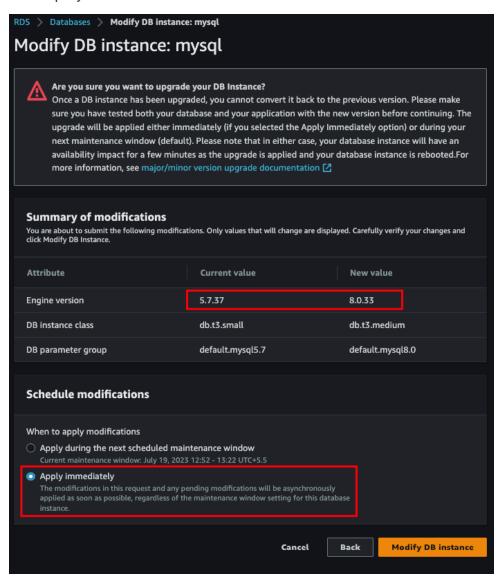
3. In the modification settings, locate the current MySQL version (5.7) from the **DB** engine version dropdown and change it to MySQL 8.0.X.

Settings	
DB engine version Version number of the database engine to be used for this database	
5.7.37	<b>A</b>
5.7.37	<b>✓</b>
5.7.38	r AWS account in the current AWS
5.7.39	
5.7.40	onstraints: 1 to 60 alphanumeric
5.7.41	't end with a hyphen.
5.7.42	
8.0.28	
8.0.32	
8.0.33	er credentials in Secrets
Planager, cean more 🖒	
Auto generate a password Amazon RDS can generate a password for you, or you can specify your ow  New master password info	

	ots		
Backup replication Info			
Enable replication in a			
	omatically creates backups of your DB	instance in the selected Region,	
	addition to the current Region.		
Log exports			
• .	sh to Amazon CloudWatch Logs		
Audit log	in to Amazon Cloudwatch Logs		
☐ Error log			
General log			
Slow query log			
IAM role			
The following service-linked in	role is used for publishing logs to Clou	udWatch Logs.	
DR instance maintenance	e window		
DB instance maintenance	g which system maintenance can occu		
	g which system maintenance can occu Start time	r. Duration	
The weekly time range during			hours
The weekly time range during Start day	Start time	Duration	hours
The weekly time range during Start day  Wednesday ▼	Start time  07 ▼ : 22 ▼	Duration	hours
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The weekly time range during Start day  Wednesday ▼  Deletion protection  □ Enable deletion prote	Start time  07 ▼ : 22 ▼  1 ection	Duration UTC 0.5 ▼	



 Verify the details you have filled in and click on the "Continue" button. The Summary of Modifications section is displayed with Current and New Values. are displayed.

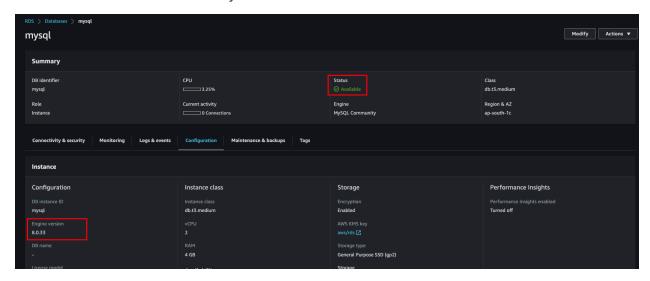


After reviewing the changes, select "Apply Immediately" and click on "Modify
 DB Instances."



#### **Confirmation and Verification**

- Once the RDS instance status is available, confirm the upgraded Engine Version by checking the configuration.
- 2. In the RDS console, locate the modified RDS instance and review the **Engine**Version to ensure it reflects MySQL 8.0.X.



3. After the RDS has been successfully migrated to MySQL 8.0.X, update the Tomcat server by changing the RDS details in the Oasis properties file.

```
# dySQL 5.7.x
#d_iverClassName=com.mysql.jdbc.Driver
#u_l=jdbc:mysql://mysql.cqss4ijtzasl.ap-south-1.rds.amazonaws.com:3386/ovaled
gedb?useUnicode=true&character_set_server=utf8mb4&useSSL=false

# MySQL 8.8.x
criverClassName=com.mysql.cj.jdbc.Driver
criverClassName=com.mysql.cj.jdbc.Driver
# MariaDB 10.x.x
#driverClassName=org.nariadb.jdbc.Driver
# driverClassName=org.nariadb.jdbc.Driver
# mysQL 5.7.x
# dread.url=jdbc:mysql://localhost:3386/ovaledgedb?useUnicode=true&character_set_server=utf8mb4&useSSL=false
# MySQL 8.0.x
# read.url=jdbc:mysql://mysql.cqss4ijtzasl.ap-south-1.rds.amazonaws.com:3386/ovaledgedb?useUnicode=true&character_set_server=utf8mb4&useSSL=false
# MariaDB 10.x.x
# read.url=jdbc:mariadb://localhost:3386/ovaledgedb?useUnicode=true&character_set_server=utf8mb4&useSSL=false

username=admin
p#ssword=password
# Connection Pool Configurations
```

<sup>\*\*</sup>End of the document\*\*

