

Launch an Aurora Instance

Lab Document

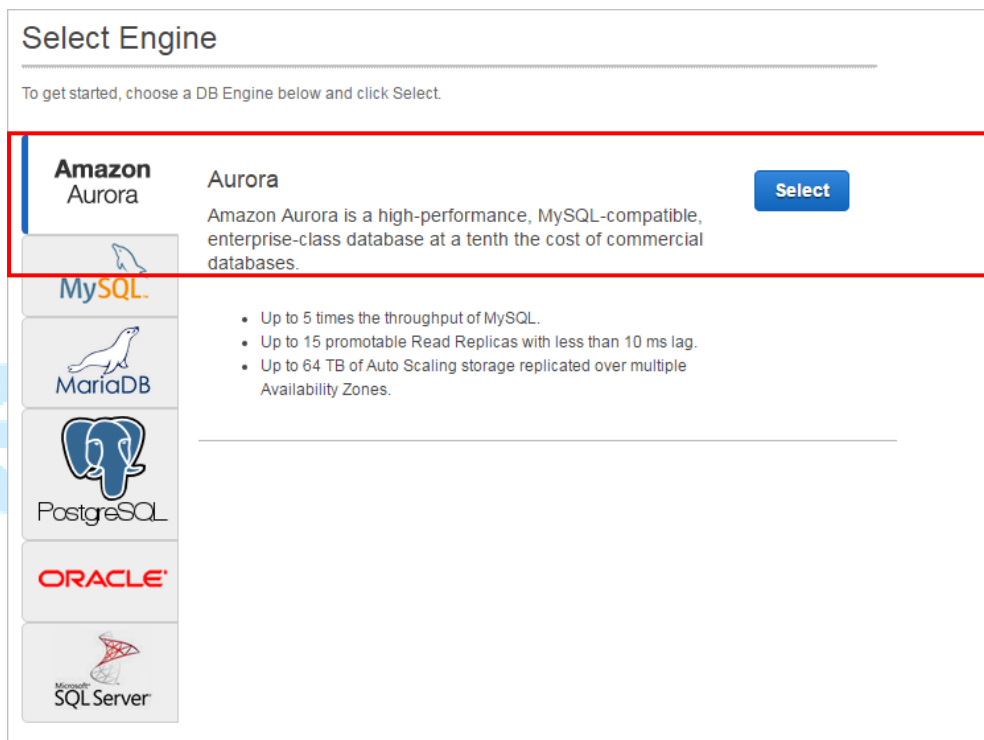
edureka!

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Launch an Aurora Instance

- Open the Amazon Aurora console at <https://console.aws.amazon.com/rds>
- In the top-right corner of the AWS Management Console, select the region in which you want to create the DB cluster
- In the left navigation pane, click Instances
- Click Launch DB Instance to start the Launch DB Instance wizard. The wizard opens on the Select Engine page
- On the Select Engine page, click the Select button for the Aurora DB engine



- On the Specify DB Details page, specify your DB cluster information
 - » **DB Instance Class** – Select a DB instance class that defines the processing and memory requirements for each instance in the DB cluster.
 - » **Multi-AZ Deployment** – Determine if you want to create Aurora Replicas in other Availability Zones for failover support.
 - » **DB Instance Identifier** – Type a name for the primary instance in your DB cluster.

- » **Master Username** – Type a name using alphanumeric characters that you will use as the master user name to log on to your DB cluster.
- » **Master Password** – Type a password that contains from 8 to 41 characters (excluding /, ", and @) for your master user password.

Specify DB Details

Instance Specifications

DB Engine: Aurora - compatible with MySQL 5.6.10a

DB Instance Class: db.r3.large — 2 vCPU, 15 GiB RAM

Multi-AZ Deployment: No

Settings

DB Instance Identifier*: db-instance

Master Username*: edureka

Master Password*:

Confirm Password*:

* Required

Cancel Previous Next Step

→ On the **Configure Advanced Settings** page, you can customize additional settings for your Aurora DB cluster. The following shows the advanced settings for a DB cluster.

- » **VPC** – Select the VPC that will host the DB cluster. Select Create a New VPC to have Amazon RDS create a VPC for you.
- » **Subnet Group** – Select the DB subnet group to use for the DB cluster. Select Create a New DB Subnet Group to have Amazon RDS create a DB subnet group for you.
- » **Publicly Accessible** – Select Yes to give the DB cluster a public IP address; or else, select No. The instances in your DB cluster can be a mix of both public and private DB instances.
- » **Availability Zone** – Determine if you want to specify a particular Availability Zone.

- » **VPC Security Group** – Select one or more VPC security groups to secure network access to the DB cluster. Select Create a New VPC Security Group to have Amazon RDS create a VPC security group for you.
- » **DB Instance Identifier** – Type a name for your DB cluster that is unique for your account in the region you selected.
- » **Database Name** – Type a name for your database of up to 8 characters.
- » **Database Port** – Specify the port that applications will use to access the database. Aurora DB clusters default to the default MySQL port, 3306.
- » **Parameter Group** – Select a parameter group. Aurora has a default parameter group you can use, or you can create your own parameter group.
- » **Option Group** – Select an option group. Aurora has a default option group you can use, or you can create your own option group.
- » **Enable Encryption** – Select **Yes** to enable encryption for the DB cluster.
- » **Priority** – Choose a failover priority for the instance. If you don't select a value, the default is tier-1. This priority determines the order in which Aurora Replicas are promoted when recovering from a primary instance failure.
- » **Backup Retention Period** – Select the length of time, from 1 to 35 days, that Aurora will retain backup copies of the database.
- » **Enable Enhanced Monitoring** – Choose Yes to enable gathering metrics in real time for the operating system that your DB cluster runs on.
- » **Granularity** – Only available if Enable Enhanced Monitoring is set to Yes. Set the interval, in seconds, between when metrics are collected for your DB cluster.
- » **Auto Minor Version Upgrade** – Select Yes if you want to enable your Aurora DB cluster to receive minor MySQL DB Engine version upgrades automatically when they become available.
- » **Maintenance Window** – Select the weekly time range during which system maintenance can occur.

Configure Advanced Settings

Network & Security

VPC*

Subnet Group

Publicly Accessible

Availability Zone

VPC Security Group(s)

Failover

Priority

Backup

Backup Retention Period days

Monitoring

Enable Enhanced Monitoring

Monitoring Role

Granularity second(s)

☒ I authorize RDS to create the IAM role rds-monitoring-role.

Maintenance

Auto Minor Version Upgrade

Maintenance Window

Start Day

Start Time : UTC

Duration hours

* Required

→ Check the status of newly created Aurora DB cluster

Filter: All Instances Search DB Instances... Viewing 1 of 1 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replicati
Aurora	db-instance	available	6.50%	2 Selects/sec	None	db.r3.large	vpc-82f3ebe6	No	writer

Cluster Endpoint: db-instance1.cluster-cx9qgfy11dhy.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Oct 8 1:24 PM	DB instance created

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR
CPU	6.5%		
Select Throughput	2.17/sec		
Select Latency	0.294 ms		
Memory	5,360 MB		
DML Throughput	0.5/sec		
DML Latency	0.192 ms		

Instance Actions Tags Logs