

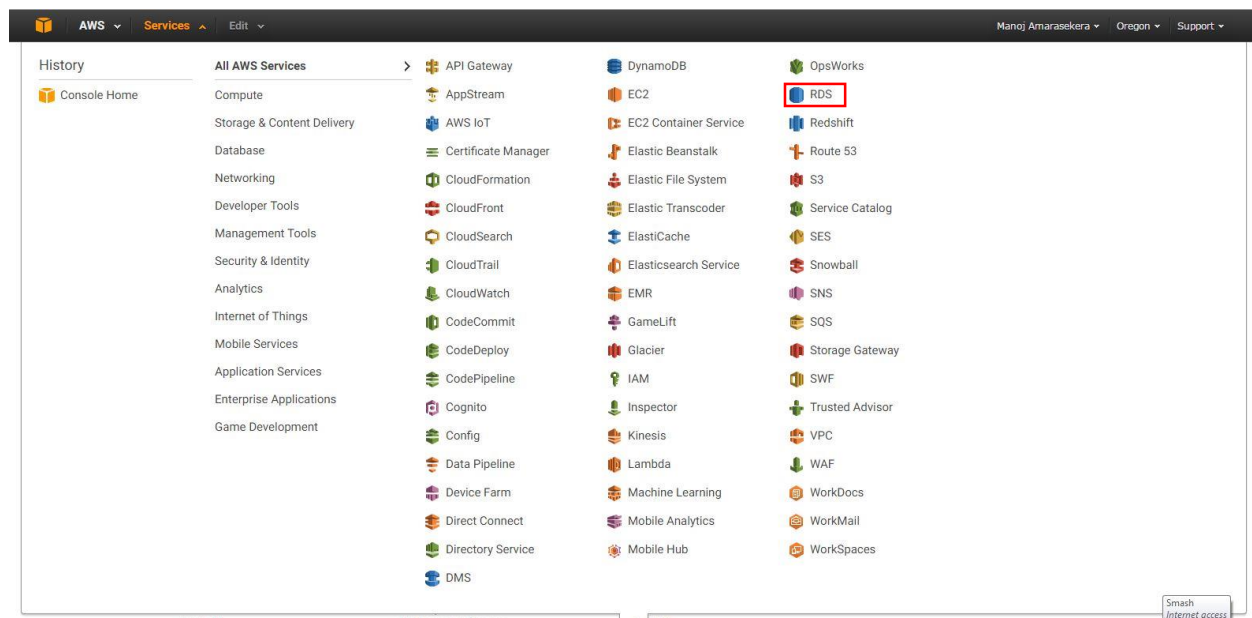
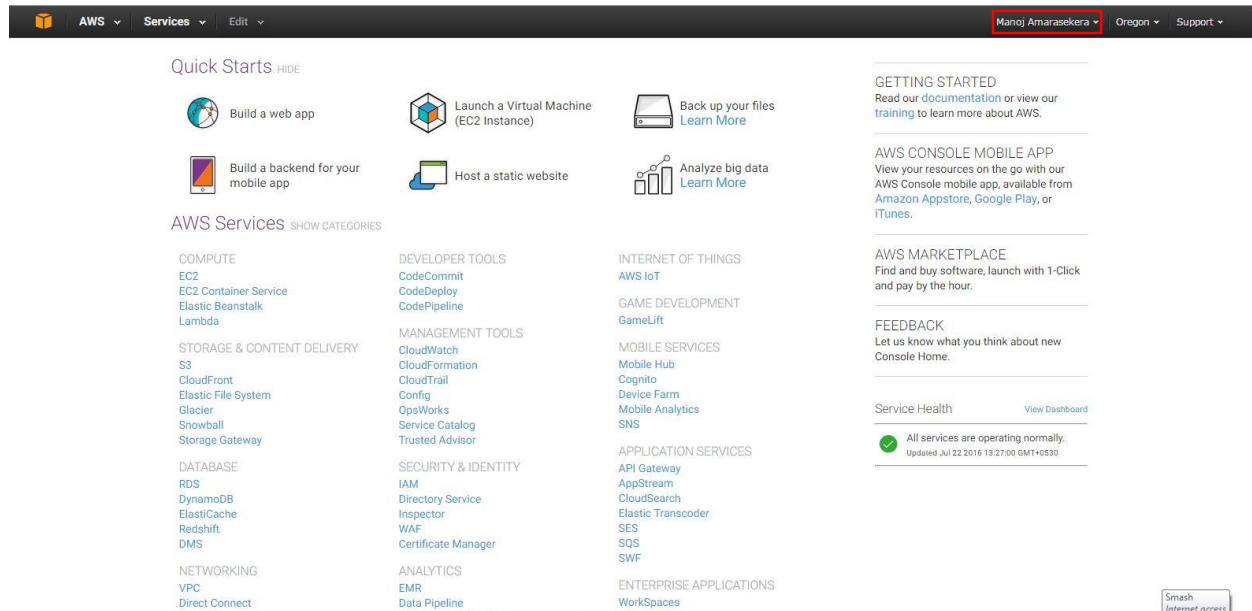
AWS DB Instance

ESBP11 LAB 3

Manoj Amarasekera

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1. Sign in to the AWS Management Console and open the Amazon RDS



2. In the top right corner of the Amazon RDS console, choose the region in which you want to create the DB instance. In the navigation pane, choose Instances then choose Launch DB Instance.

The screenshot shows the Amazon RDS console interface. In the top right corner, the region is set to 'Oregon'. In the left navigation pane, 'Instances' is selected. The main content area displays the 'Amazon RDS for Aurora' banner, followed by a 'Resources' section listing various AWS resources. Below this, the 'Create Instance' section is visible, with the 'Launch a DB Instance' button highlighted. The right sidebar contains 'Additional Information' and 'Related Services' links.

3. The Launch DB Instance Wizard opens on the Select Engine page. Select the DB Engine and your plan.

The screenshot shows the 'Select Engine' page of the Amazon RDS console. The page title is 'Select Engine'. Below the title, there is a list of database engines: Amazon Aurora, MySQL, MariaDB, PostgreSQL, and ORACLE. The 'MySQL' engine is selected, and the 'Select' button next to it is highlighted. The page also includes a 'Cancel' button at the bottom right.

AWS

Services

Edit

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Oregon

Support

Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

Do you plan to use this database for production purposes?

Production

☐ Amazon Aurora

Recommended

MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.

☐ MySQL

Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.

Dev/Test

☒ MySQL

This instance is intended for use outside of production or under the RDS Free Usage Tier.

Billing is based on RDS pricing.

Cancel

Previous

Next Step

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4. Specify DB Details page, specify your DB instance information.

AWS

Services

Edit

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Support

Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

Your current selection is eligible for the free tier.

Learn More.

Estimate your monthly costs for the DB Instance using the RDS Instance Cost Calculator.

Specify DB Details

Free Tier

The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

☐ Only show options that are eligible for RDS Free Tier

Instance Specifications

DB Enginemysql

License Modelgeneral-public-license

DB Engine Version5.6.27

Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.

DB Instance Classdb.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ Deployment- Select One -

Storage TypeGeneral Purpose (SSD)

Allocated Storage*5 GB

Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the Initial General Purpose (SSD) IO credit balance.

[Click here](#) for more details.

Settings

DB Instance Identifier*manojESBPii

Must contain only letters, digits, or hyphens

Master Username*it13124922

Master Password*.....

Confirm Password*.....

Specify a name that is unique for all DB instances owned by your AWS account in the current region. DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Learn More.

* Required

Cancel

Previous

Next Step

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5. Configure Advanced Settings page, provide additional information that RDS needs to launch the MySQL DB instance

The screenshot shows the 'Configure Advanced Settings' page in the AWS Management Console. The left sidebar indicates the current step is 'Step 4: Configure Advanced Settings'. The main content area is divided into several sections:

- Network & Security:** Includes dropdowns for VPC (Default VPC), Subnet Group (default), Publicly Accessible (Yes), Availability Zone (No Preference), and VPC Security Group(s). The security group dropdown is open, showing options like 'Create new Security Group', 'default (VPC)', 'launch-wizard-1 (VPC)', and 'launch-wizard-2 (VPC)'.
- Database Options:** Includes a text field for Database Name, Database Port (3306), DB Parameter Group (default.mysql5.6), Option Group (default.mysql-5-6), Copy Tags To Snapshots (checkbox), and Enable Encryption (No).
- Backup:** Includes Backup Retention Period (7 days) and Backup Window (No Preference).
- Monitoring:** Includes Enable Enhanced Monitoring (No).
- Maintenance:** Includes Auto Minor Version Upgrade (Yes) and Maintenance Window (No Preference).

At the bottom right, there is a note: 'Specify Yes to enable automatic upgrades to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the DB instance. Learn More.' At the bottom of the page, there are buttons for 'Cancel', 'Previous', and 'Launch DB Instance'.

- The DB instance will have a status of creating until the DB instance is created and ready for use. When the state changes to available, you can connect to a database on the DB instance.

RDS Dashboard

Launch DB Instance Show Monitoring Instance Actions

Filter: All Instances Search DB Instances... Viewing 2 of 2 DB Instances

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	Encrypted
<input checked="" type="checkbox"/>	MySQL	espbl	deleting	1.50%	0 Connections	None	db.t2.micro	vpc-6dee9009	No		No
<input checked="" type="checkbox"/>	MySQL	manojesbpil	backing-up		0 Connections	None	db.t2.micro	vpc-6dee9009	No		No

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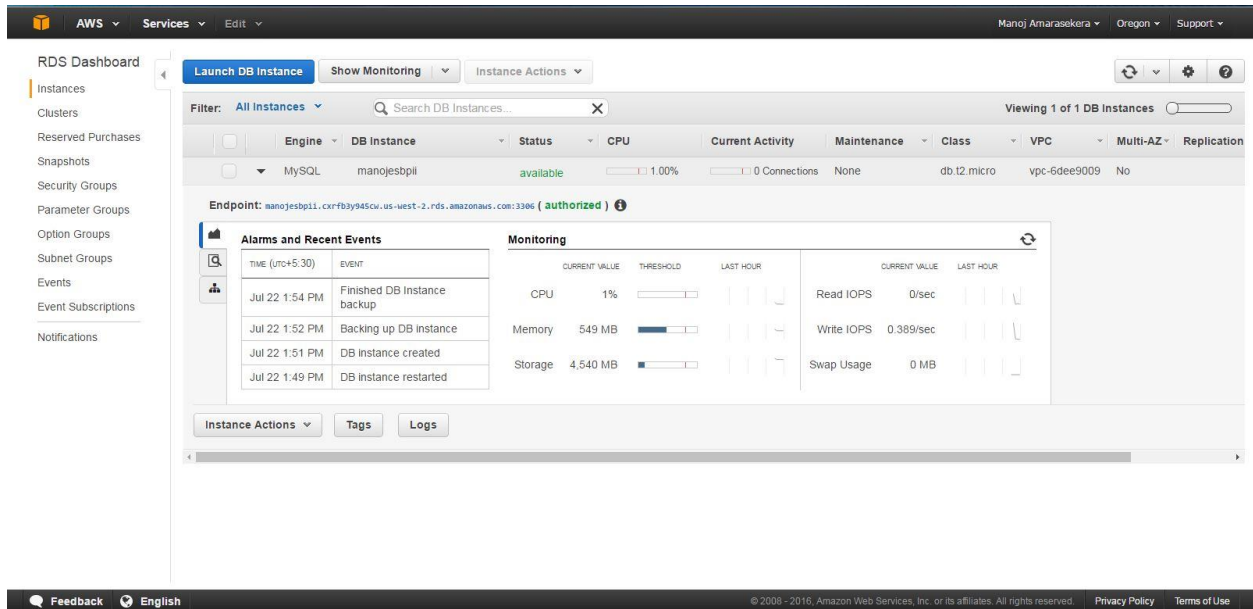
RDS Dashboard

Launch DB Instance Show Monitoring Instance Actions

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

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	Encrypted
<input checked="" type="checkbox"/>	MySQL	manojesbpil	available	1.31%	0 Connections	None	db.t2.micro	vpc-6dee9009	No		No

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7. Connect to a database on a DB instance using SQLyog

