

Enterprise Standards and Best Practices for IT Infrastructure

Amazon Relational Database Services

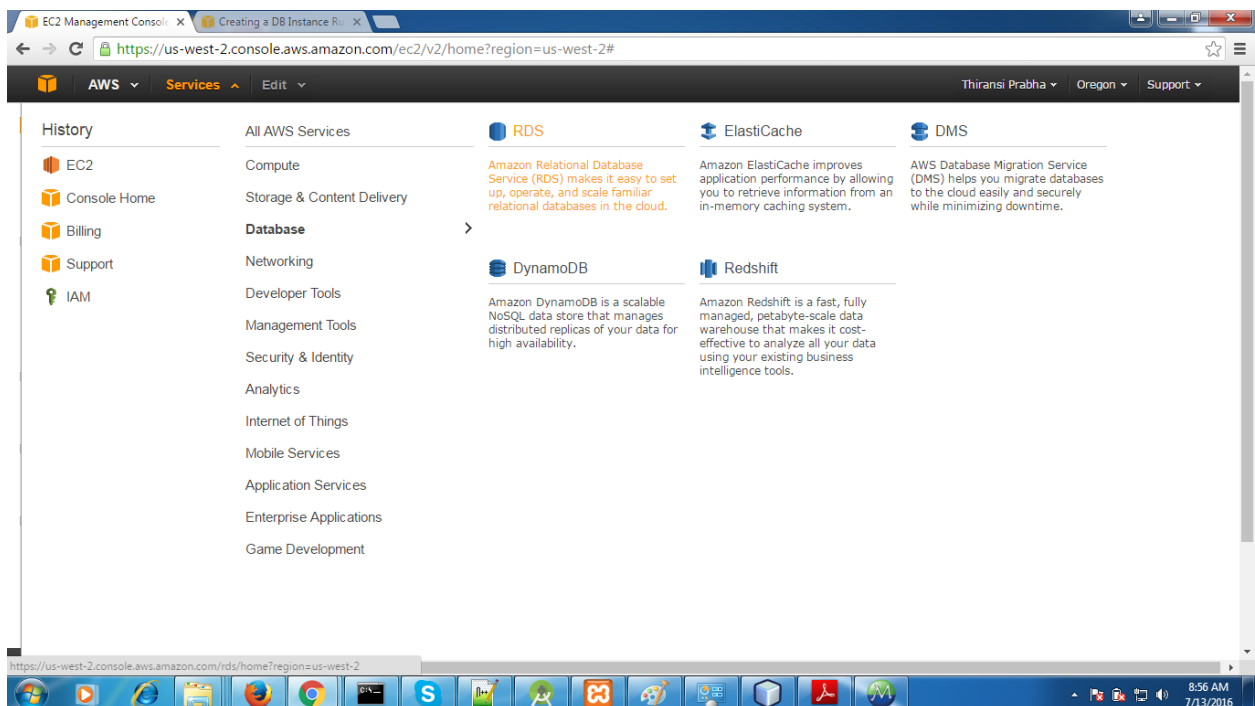
Assignment Report 03

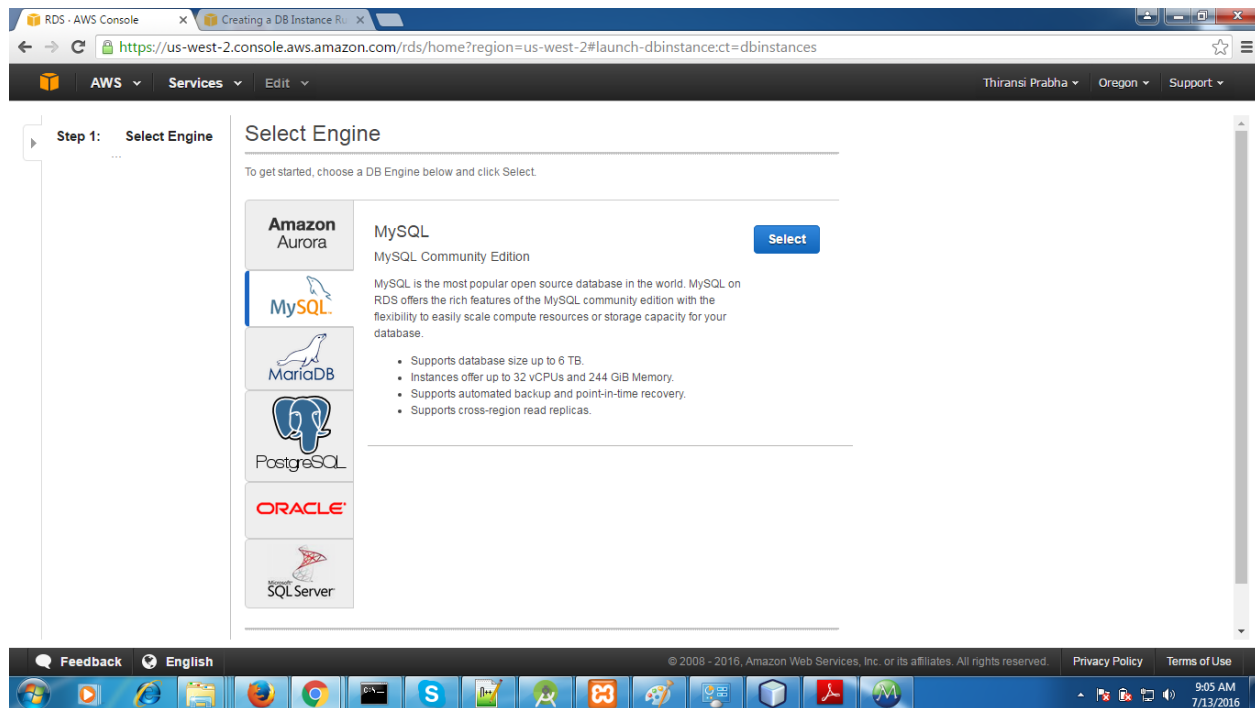
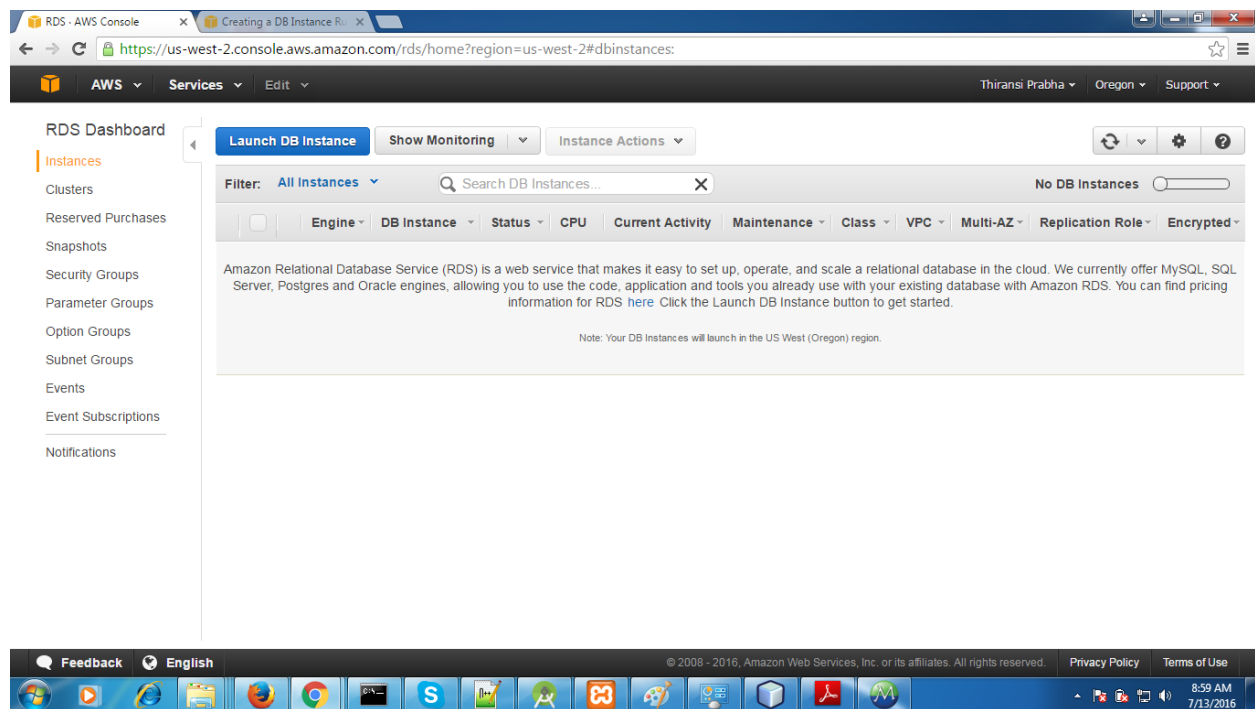
Author: IT13115708 - Prabha MWT

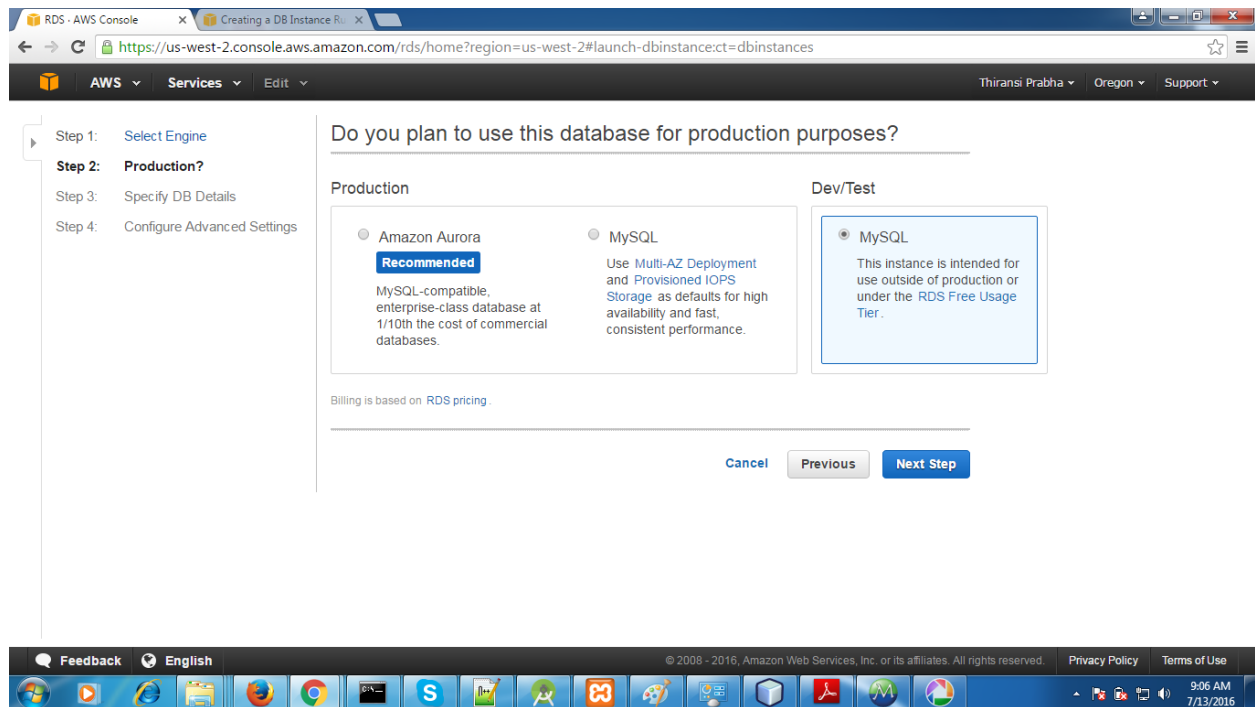
B.Sc (Special Honours) in Information Technology
Sri Lanka Institute of Information Technology

To create a MySQL DB instance

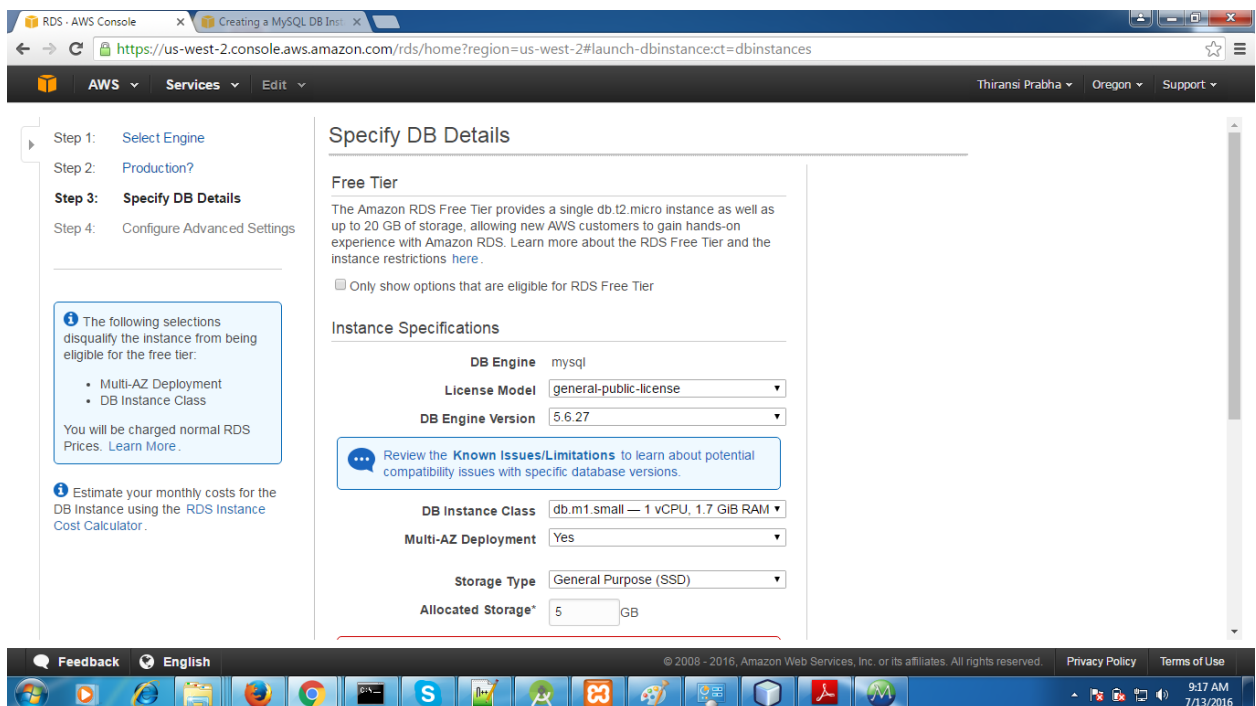
1. Sign in to the AWS Management Console and open the Amazon RDS console at <https://console.aws.amazon.com/rds/>.
2. In the top right corner of the Amazon RDS console, choose the region in which you want to create the DB instance.
3. In the navigation pane, choose **Instances**.
4. Choose **Launch DB Instance**. The **Launch DB Instance Wizard** opens on the **Select Engine** page.
5. On the **Select Engine** page, choose the MySQL icon and then choose **Select** for the MySQL DB engine.







- On the **Specify DB Details** page, specify your DB instance information. When the settings are as you want them, choose **Next**.



Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

DB Instance Class db.m1.small — 1 vCPU, 1.7 GiB RAM

Multi-AZ Deployment Yes

Storage Type General Purpose (SSD)

Allocated Storage* 5 GB

Settings

DB Instance Identifier* west2mysqlinstance1

Master Username* IT13115708

Master Password*

Confirm Password*

* Required

Cancel Previous **Next Step**

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](#).

- On the **Configure Advanced Settings** page, provide additional information that RDS needs to launch the MySQL DB instance. Specify your DB instance information, then choose **Launch DB Instance**.

Step 1: [Select Engine](#)

Step 2: [Production?](#)

Step 3: [Specify DB Details](#)

Step 4: **Configure Advanced Settings**

Configure Advanced Settings

Network & Security

VPC* Default VPC (vpc-65115401)

Subnet Group default

Publicly Accessible Yes

Availability Zone No Preference

VPC Security Group(s) Create new Security Group, default (VPC), launch-wizard-1 (VPC), launch-wizard-2 (VPC)

Database Options

Database Name IT13115708

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port 3306

DB Parameter Group default.mysql5.6

Option Group default.mysql5-6

Select the security group or groups that have rules authorizing connections from all of the EC2 instances and devices that need to access the data stored in the DB instance. By default, security groups do not authorize any connections; you must specify rules for all instances and devices that will connect to the DB instance. [Learn More](#).

Connection Information

Security Group Rules:
A security group allowing your current IP address (61.245.163.228) to connect to your instance will be created. This will make it easier for you

RDS - AWS Console x Creating a MySQL DB Instance x

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dbinstances

AWS Services Edit Thiransi Prabha Oregon Support

default (VPC)
launch-wizard-1 (VPC)
launch-wizard-2 (VPC)

Database Options

Database Name

Note: If no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port

DB Parameter Group

Option Group

Copy Tags To Snapshots ☐

Enable Encryption

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).

Backup Retention Period days

Backup Window

Maintenance

devices that need to access the data stored in the DB instance. By default, security groups do not authorize any connections; you must specify rules for all instances and devices that will connect to the DB instance. [Learn More](#).

Connection Information

Security Group Rules:
A security group allowing your current IP address (61.245.163.228) to connect to your instance will be created. This will make it easier for you to connect to the instance and configure it.

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:27 AM 7/13/2016

RDS - AWS Console x Creating a MySQL DB Instance x

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dbinstances

AWS Services Edit Thiransi Prabha Oregon Support

Note: If no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port

DB Parameter Group

Option Group

Copy Tags To Snapshots ☐

Enable Encryption

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).

Backup Retention Period days

Backup Window

Maintenance

Auto Minor Version Upgrade

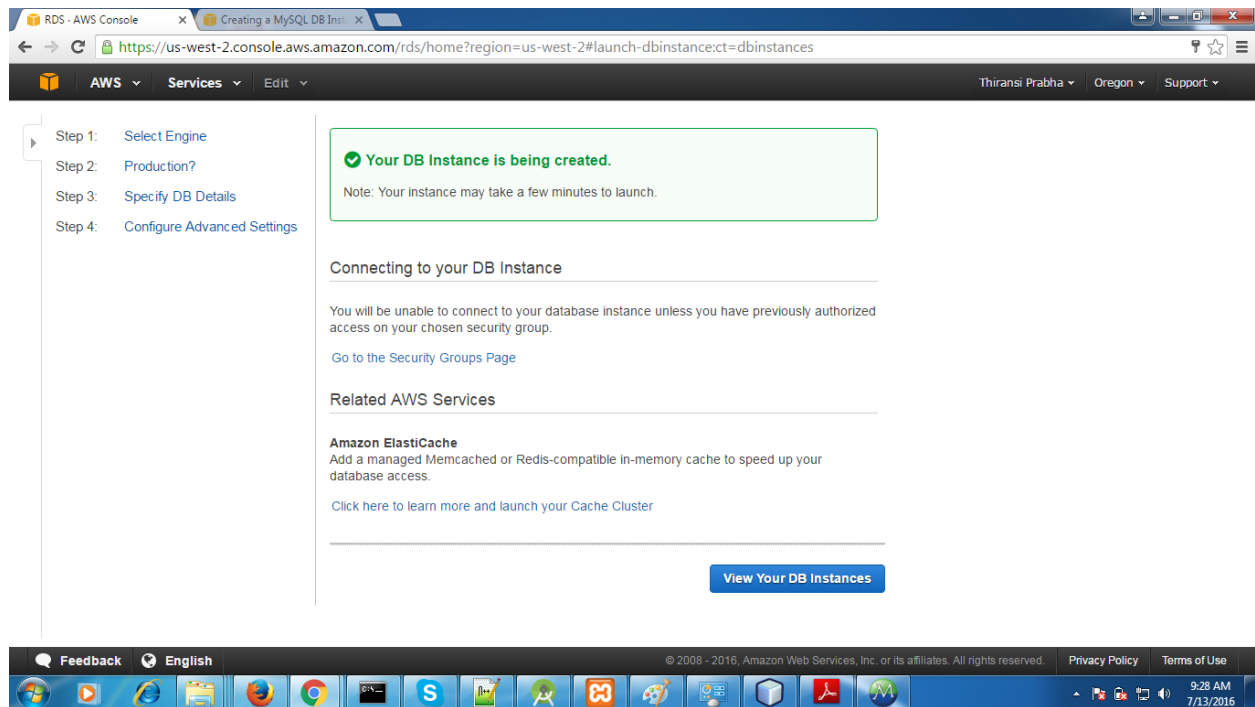
Maintenance Window

The daily time range (in UTC) during which automated backups are created if automated backups are enabled.

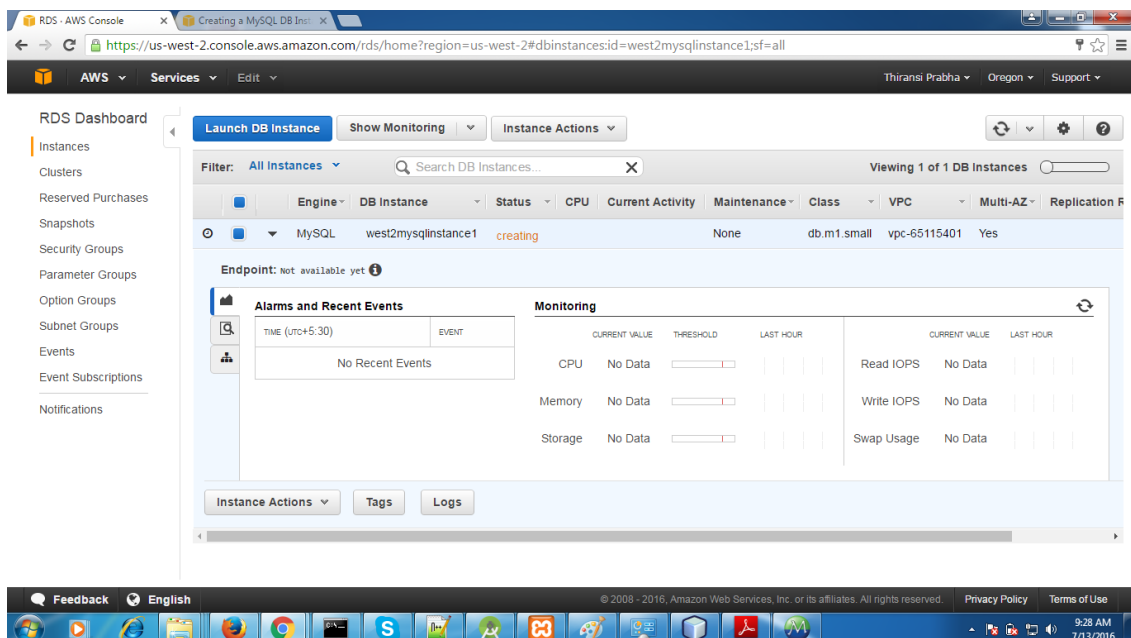
* Required

Cancel Previous **Launch DB Instance**

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:27 AM 7/13/2016



8. On the RDS console, the new DB instance appears in the list of DB instances. 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. Depending on the DB instance class and store allocated, it could take several minutes for the new DB instance to become available.



RDS - AWS Console x Creating a MySQL DB Inst x

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=west2mysqlinstance1;sf=all

AWS Services Edit Thiransi Prabha Oregon Support

RDS Dashboard

- Instances
- Clusters
- Reserved Purchases
- Snapshots
- Security Groups
- Parameter Groups
- Option Groups
- Subnet Groups
- Events
- Event Subscriptions
- Notifications

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	Replica
MySQL	west2mysqlinstance1	modifying		0 Connections	None	db.m1.small	vpc-65115401	No	

Endpoint: west2mysqlinstance1.cn5sxd13swz.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
No Recent Events	

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR
CPU	18%		
Memory	1,180 MB		
Storage	4,540 MB		

	CURRENT VALUE	LAST HOUR
Read IOPS	0.117/sec	
Write IOPS	28.8/sec	
Swap Usage	0 MB	

Instance Actions Tags Logs

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:36 AM 7/13/2016

RDS - AWS Console x Creating a MySQL DB Inst x New Tab

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=west2mysqlinstance1;sf=all

AWS Services Edit Thiransi Prabha Oregon Support

RDS Dashboard

- Instances
- Clusters
- Reserved Purchases
- Snapshots
- Security Groups
- Parameter Groups
- Option Groups
- Subnet Groups
- Events
- Event Subscriptions
- Notifications

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	Replica
MySQL	west2mysqlinstance1	available	5.42%	0 Connections	None	db.m1.small	vpc-65115401	Yes	

Endpoint: west2mysqlinstance1.cn5sxd13swz.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Jul 13 9:46 AM	Backing up DB instance
Jul 13 9:44 AM	Finished applying modification to convert to a Multi-AZ DB Instance
Jul 13 9:35 AM	Applying modification to convert to a Multi-AZ DB Instance
Jul 13 9:34 AM	DB instance created
Jul 13 9:34 AM	DB instance restarted

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR
CPU	7%		
Memory	1,170 MB		
Storage	4,540 MB		

	CURRENT VALUE	LAST HOUR
Read IOPS	0/sec	
Write IOPS	0.117/sec	
Swap Usage	0 MB	

Instance Actions Tags Logs

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:30 AM 7/13/2016

To connect to a database on a DB instance using MySQL monitor

