

Sri Lanka Institute of Information Technology



Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester

AWS Instances Summary Lab-3

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Creating an Amazon RDS

Step1: Choose Instances from RDS Dashboard. Select Launch DB Instance.

The screenshot shows the AWS RDS Dashboard in the 'us-west-2' region. The left sidebar contains a navigation menu with options like Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area features a 'Resources' section listing various RDS resources (DB Instances, Parameter Groups, Option Groups, etc.) and an 'Additional Information' section with links to documentation and guides. A prominent blue banner at the top encourages launching an Aurora DB Instance. Below the resources, there is a 'Create Instance' section with a 'Launch a DB Instance' button. The bottom of the dashboard includes a footer with feedback, language settings, and copyright information.

Step2: Choose MySQL from 'Select Engine' tab.

The screenshot displays the 'Select Engine' step in the AWS RDS console. The left sidebar shows 'Step 1: Select Engine'. The main content area is titled 'Select Engine' and provides instructions to choose a DB Engine. A list of database engines is shown on the left, including Amazon Aurora, MySQL, MariaDB, PostgreSQL, ORACLE, and SQL Server. The 'MySQL' engine is selected, and its details are displayed on the right, including a description and performance benefits. A 'Select' button is visible next to the MySQL engine. The bottom of the dashboard includes a footer with feedback, language settings, and copyright information.

Step3: Select MySQL under 'Dev/Test' category. Then proceed to next step.

The screenshot shows the AWS RDS console interface. On the left, a sidebar lists the steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details, and Step 4: Configure Advanced Settings. The main content area is titled 'Do you plan to use this database for production purposes?'. It has two tabs: 'Production' and 'Dev/Test'. Under the 'Production' tab, there are two options: 'Amazon Aurora' (marked as 'Recommended') and 'MySQL'. Under the 'Dev/Test' tab, 'MySQL' is selected. A note under 'MySQL' in the 'Dev/Test' tab states: 'This instance is intended for use outside of production or under the [RDS Free Usage Tier](#).' At the bottom, there are three buttons: 'Cancel', 'Previous', and 'Next Step'.

Step4: Specify the DB details. (Instance Specifications and Settings)

The screenshot shows the AWS RDS console interface for the 'Specify DB Details' step. A blue banner at the top says 'Review the [known issues/limitations](#) to learn about potential compatibility issues with specific database versions.' Below this, there are four dropdown menus: 'DB Instance Class' (set to '- Select One -'), 'Multi-AZ Deployment' (set to '- Select One -'), 'Storage Type' (set to '- Select One -'), and 'Allocated Storage*' (set to '5 GB'). A red warning box states: '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.' Below the warning, the 'Settings' section has four input fields: 'DB Instance Identifier*' (filled with 'shamilika'), 'Master Username*' (filled with 'shamilika_DB'), 'Master Password*' (filled with '*****'), and 'Confirm Password*' (filled with '*****'). A note on the right says 'Retype the value you specified for Master Password.' At the bottom, there are three buttons: 'Cancel', 'Previous', and 'Next Step'.

Step5: Fill the required fields.

DB Instance Class, Multi-AZ Deployment, Storage Type. Then provide DB instance identifier, a master username and a master password.

Review the [known issues/limitations](#) to learn about potential compatibility issues with specific database versions.

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

DB Instance Class db.t2.small — 1 vCPU, 2 GiB RAM
⚠ This field is required

Multi-AZ Deployment - Select One -

Storage Type General 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* shamilika

Master Username* shamilika_DB

Master Password* *****

Confirm Password* *****

* Required

Cancel Previous **Next Step**

Select Yes to have Amazon RDS maintain a synchronous standby replica in a different Availability Zone than the DB instance. Amazon RDS will automatically fail over to the standby in the case of a planned or unplanned outage of the primary. [Learn More](#).

Step6: Give a database name in 'Configure Advanced Settings' tab. (Database Options) Choose 'No' in Enable Enhanced Monitoring. (Monitoring) and then Click '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-7a1261ee)

Subnet Group: default

Publicly Accessible: Yes

Availability Zone: No Preference

VPC Security Groups: default (vpc-launch-wizard-1 (VPC), launch-wizard-10 (VPC))

Database Options

Database Name: shamilikaDB

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:mysql-5.6

Option Group: default:mysql-5.6

Copy Tags To Snapshots: ☐

Enable Encryption: No

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to manual page.

Backup Retention Period: 7 days

Backup Window: No Preference

Monitoring

Enable Enhanced Monitoring: No

Maintenance

Auto Minor Version Upgrade: Yes

Maintenance Window: No Preference

* Required

Cancel Previous **Launch DB Instance**

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](#).

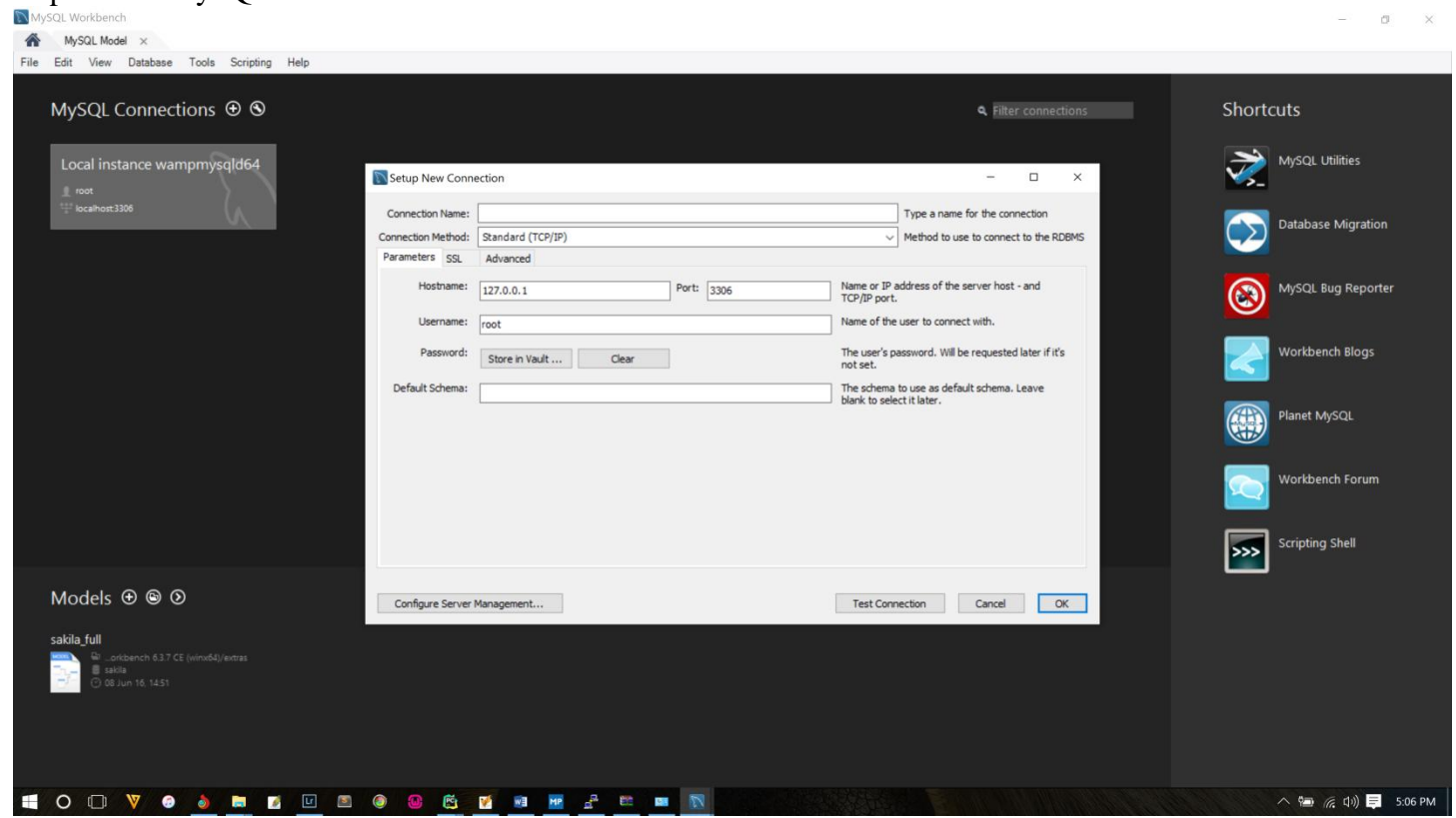
Step7: Click on ‘View Your DB Instance’.

The screenshot shows the AWS RDS console interface. On the left, a sidebar lists steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details, and Step 4: Configure Advanced Settings. The main content area displays a green notification box stating 'Your DB Instance is being created.' with a note that the instance may take a few minutes to launch. Below this, there is a section titled 'Connecting to your DB Instance' with instructions on authorization and a link to 'Go to the Security Groups Page'. Another section titled 'Related AWS Services' mentions 'Amazon ElastiCache' and provides a link to learn more and launch a cache cluster. At the bottom right of the main content area, there is a blue button labeled 'View Your DB Instances'.

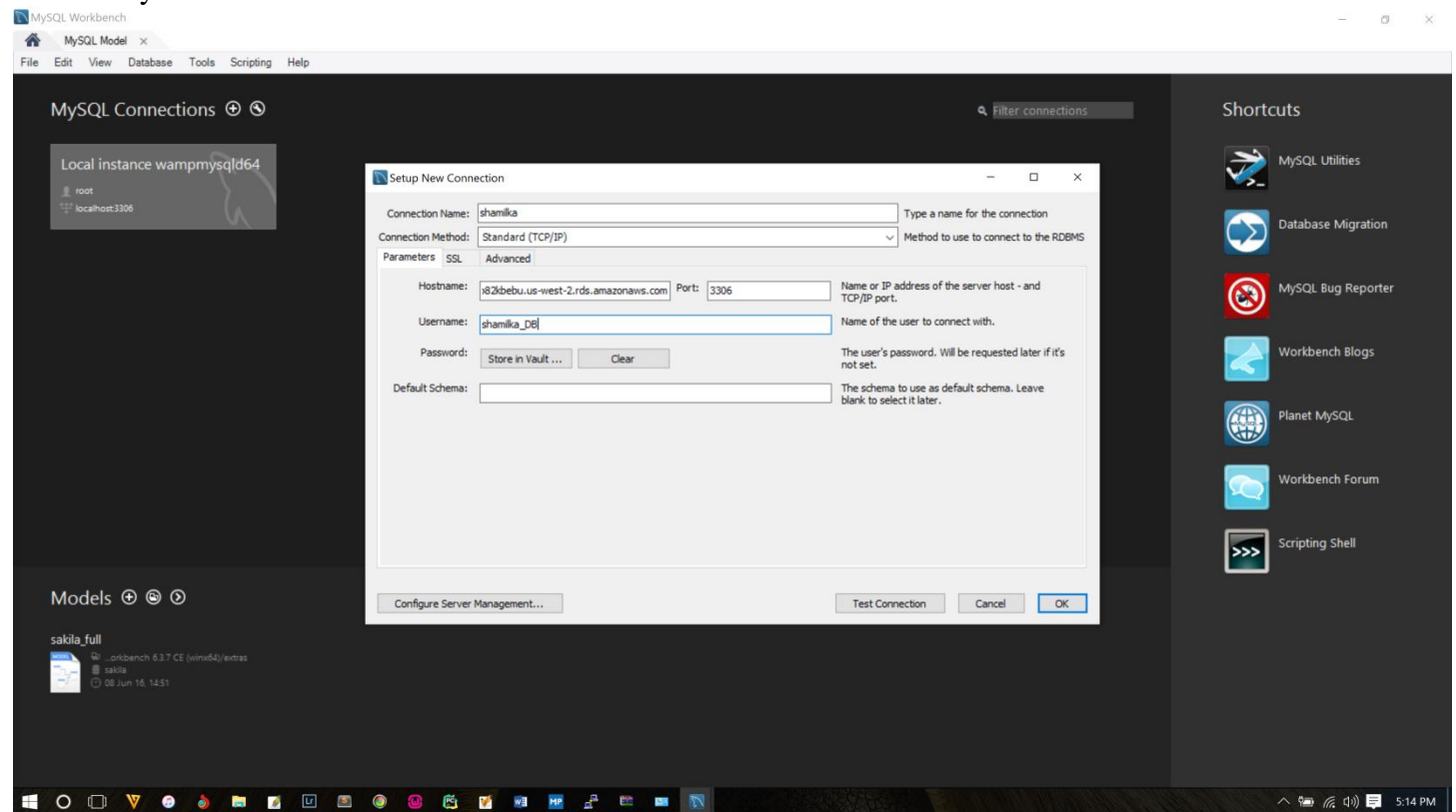
Step8: Wait until the instance status changes to ‘available’ from ‘creating’. Copy the endpoint details without the port number.

The screenshot shows the AWS RDS console interface with the 'View Your DB Instance' button highlighted. The main content area displays a table of DB instances. The first instance, 'shamika', is in the 'creating' status. The second instance, 'thanuka', is in the 'backing-up' status. The table columns include Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, and Replication Role. Below the table, there is a section titled 'Endpoint: Not available yet' and a 'Monitoring' section with a table of metrics (CPU, Memory, Storage, Read IOPS, Write IOPS, Swap Usage) and their current values and thresholds. The 'Instance Actions' button is visible at the bottom left of the main content area.

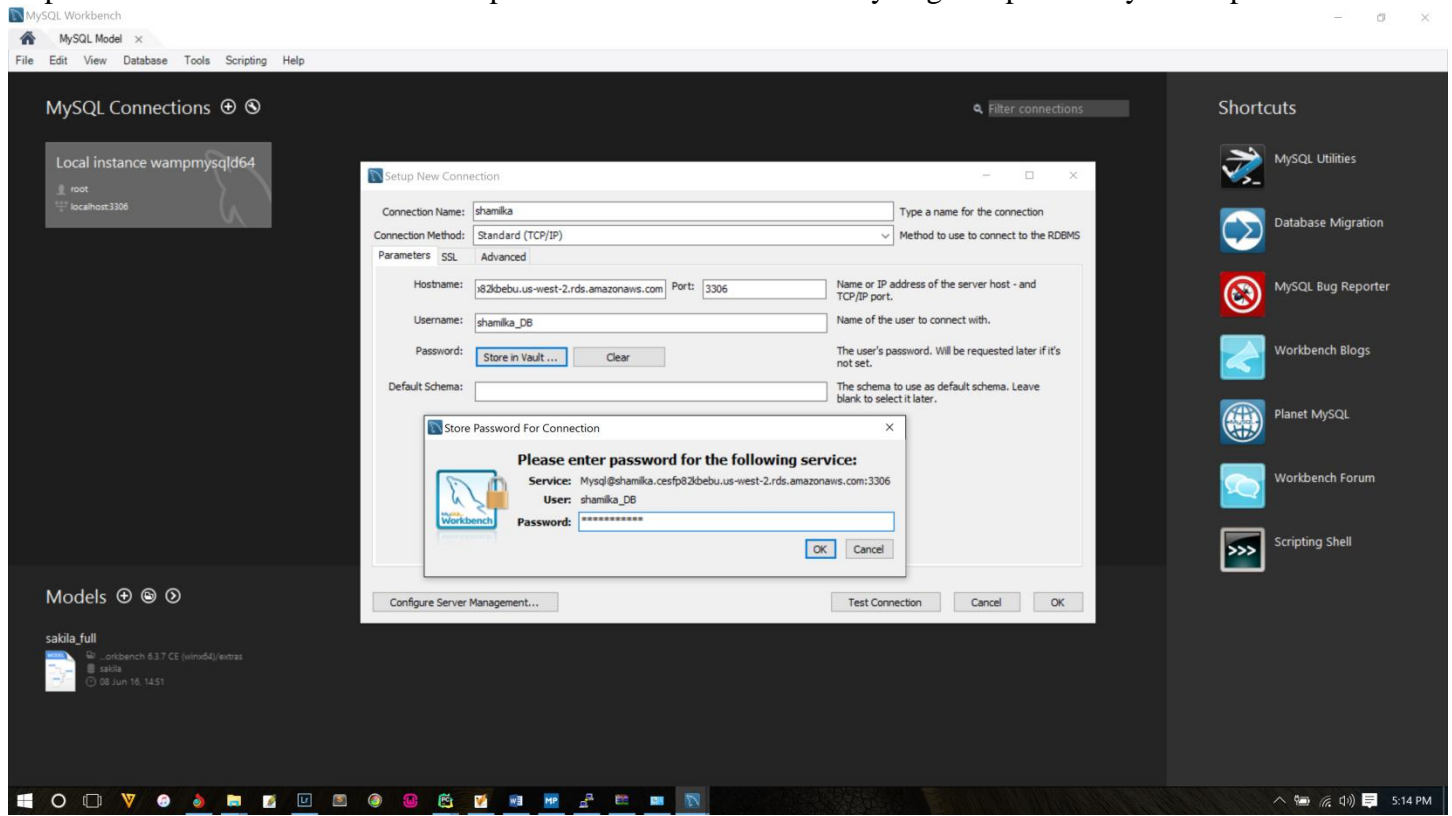
Step9: Start MySQL workbench and create a new connection.



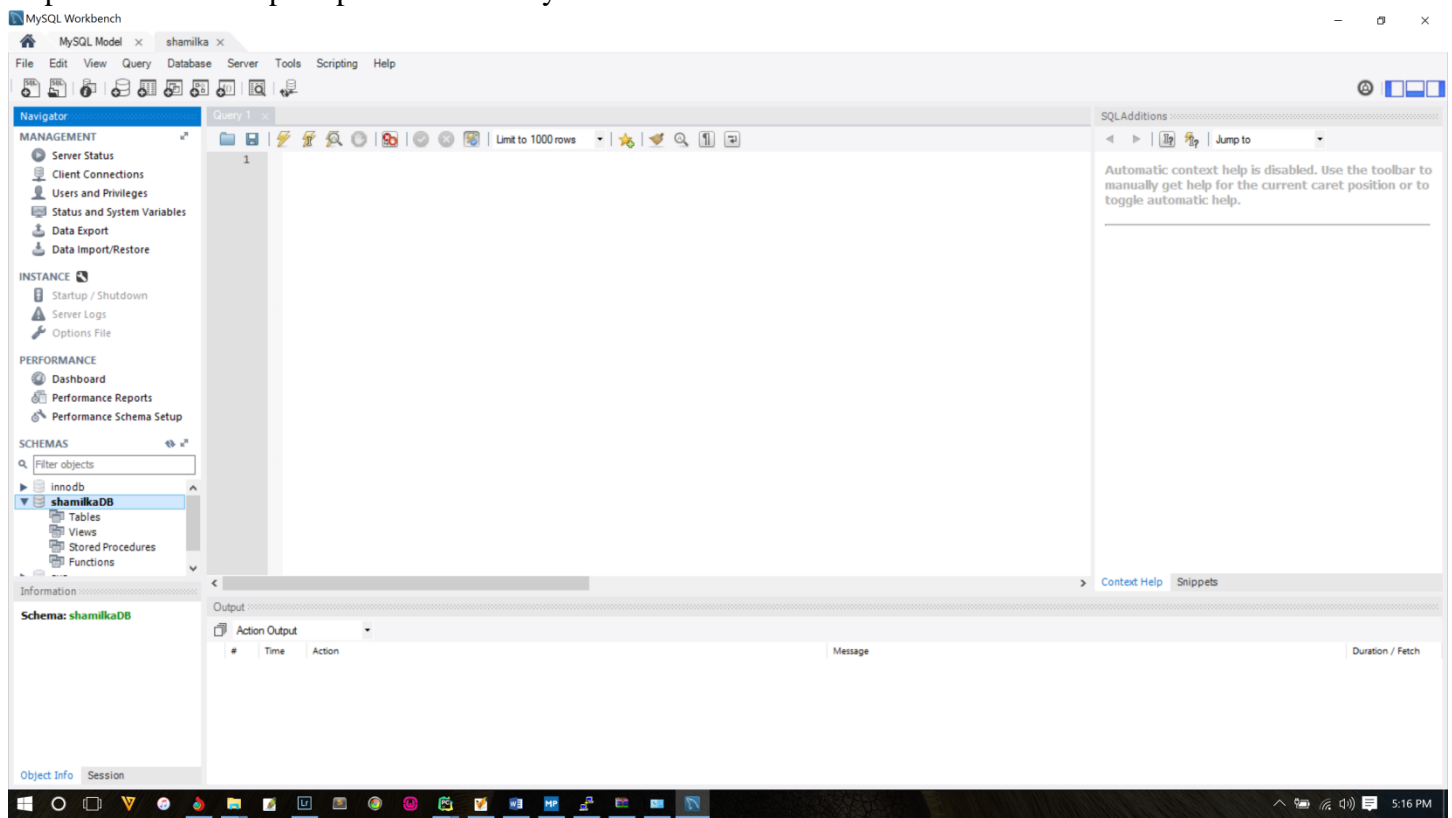
Step10: Provide a connection name. Give the copied endpoint details as the hostname. Provide the master username you used before as the username.



Step11: Click on 'Store in Vault' and provide the Master Password you given previously as the password.



Step12: You will be prompted to the newly created DB.



Step13: Delete the created DB Instance.

The screenshot shows the AWS RDS console with the 'shamilka' MySQL DB instance selected. The instance is in the 'available' state. The context menu is open, and the 'Delete' option is highlighted. The 'Alarms and Recent Events' section shows a list of events, including 'DB instance created' and 'DB instance restarted'.

TIME (UTC+5:30)	EVENT
Jul 30 4:55 PM	Finished DB Instance backup
Jul 30 4:50 PM	Backing up DB instance
Jul 30 4:49 PM	DB instance created
Jul 30 4:48 PM	DB instance restarted

The screenshot shows the 'Delete DB Instance' confirmation dialog in the AWS RDS console. The dialog asks 'Are you sure you want to Delete the shamilka DB Instance?'. The 'Create final Snapshot?' option is set to 'Yes', and the 'Final snapshot name' is 'shamilka-final-snapshot'. A warning message states: 'We strongly recommend taking a final snapshot before instance deletion since after your instance is deleted, automated backups will no longer be available.' The 'Delete' button is highlighted in red.

RDS - AWS Console

MySQL :: Download MySQL

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

AppsCourseWebGoogleFacebookGmailYouTubeebayApache Jena - Apac...InstagramWhat is machine lea...nlp - How to auto-t...Explore Python, mac...PyCharm :: Downloa...

AWSServicesEdit

thanukaOregonSupport

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 2 of 2 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role
MySQL	shamilka	deleting	1.19%	2 Connections	None	db.t2.small	vpc-7a126d1e	No	

Endpoint: shamilka.cesfp82kbebu.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Jul 30 4:55 PM	Finished DB Instance backup
Jul 30 4:50 PM	Backing up DB instance
Jul 30 4:49 PM	DB instance created
Jul 30 4:48 PM	DB instance restarted

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR		CURRENT VALUE	LAST HOUR
CPU	1.19%			Read IOPS	0/sec	
Memory	1,500 MB			Write IOPS	0.3/sec	
Storage	4,540 MB			Swap Usage	0 MB	

Instance Actions

Tags

Logs

MySQL	thanuka	available	1.00%	0 Connections	None	db.t2.small	vpc-7a126d1e	No
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FeedbackEnglish

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mysql-workbench-co...ziplakmail_linux.pem

Show torrents...Show all downloads...

5:18 PM