



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

Installing MySQL in Cloud Amazon

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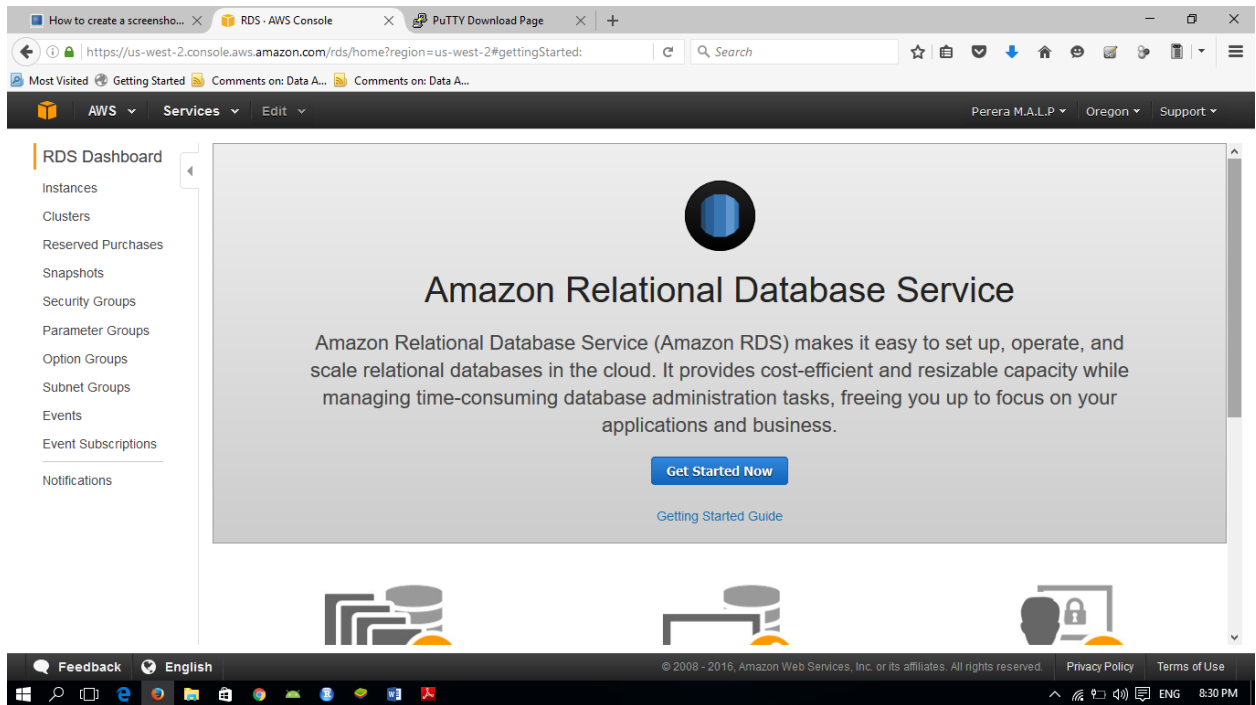
Practical Session: WD Friday

Date of Submission: 30.July.2016

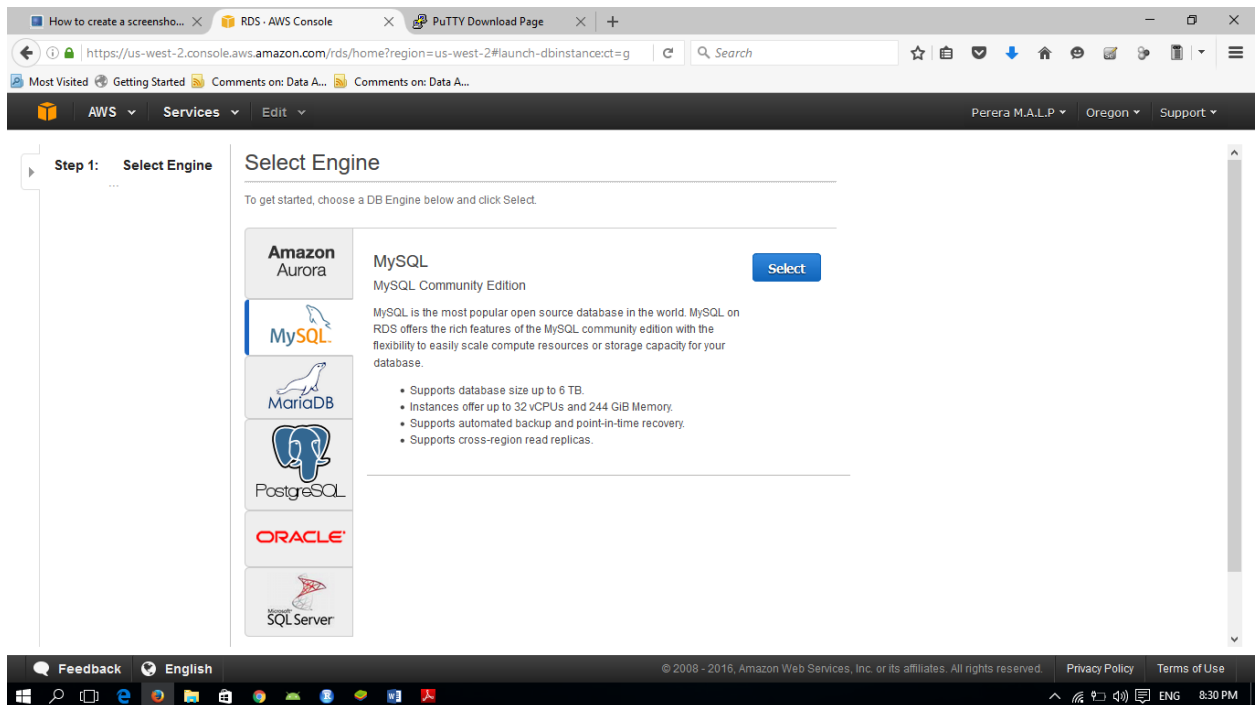
Date of Evaluation : _____

Evaluators Signature : _____

- In AWS home select 'RDS' then click 'Instances'.



- Click 'Launch DB Instance' & Select 'MySQL' and click 'Select'. Click 'Launch DB Instance' & Select 'MySQL' and click 'Select'.



- Select 'MySQL' in Production and Click '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 columns: 'Production' and 'Dev/Test'. Under 'Production', there are two options: 'Amazon Aurora' (marked 'Recommended') and 'MySQL'. The 'MySQL' option is selected with a radio button. Below it, text says 'Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.' Under 'Dev/Test', there is a 'MySQL' option with text: 'This instance is intended for use outside of production or under the RDS Free Usage Tier.' At the bottom, there are 'Cancel', 'Previous', and 'Next Step' buttons. The footer shows '© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and the time '8:31 PM'.

- Select db.12.micro—1 vCPU, 1 GiB RAM, select No for Multi-AZ Deployment, Storage Type : General Purpose (SSD), Allocated Storage : 15 GB , Give a DB Instance Identifier any name and for Master Username any username and Click 'Next Step'

The screenshot shows the AWS RDS console interface for the 'Specify DB Instance Details' step. The 'Storage Type' is set to 'General Purpose (SSD)' and 'Allocated Storage' is '15 GB'. A warning message 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.' Under the 'Settings' section, 'DB Instance Identifier' is 'LahiruMySQL', 'Master Username' is 'Lahiru_Perera' (with a note: 'Only numbers, letters, and _ accepted'), 'Master Password' is masked with dots, and 'Confirm Password' is also masked. A sidebar on the left provides a link to the 'RDS Instance Cost Calculator'. At the bottom, there are 'Cancel', 'Previous', and 'Next Step' buttons. The footer shows '© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and the time '8:42 PM'.

- Select 'No' in Enable Enhanced Monitoring and Click 'Launch DB Instance'

The screenshot shows the AWS RDS console 'Launch DB Instance' page. The browser address bar shows the URL: <https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=g>. The page is titled 'Launch DB Instance' and shows various configuration options. The 'Option Group' is set to 'default:mysql-5-6'. The 'Copy Tags To Snapshots' checkbox is unchecked. The 'Enable Encryption' dropdown is set to 'No'. The 'Backup' section includes a note about automated backups for InnoDB storage engine only. The 'Backup Retention Period' is set to '7' days, and the 'Backup Window' is set to 'No Preference'. The 'Monitoring' section shows 'Enable Enhanced Monitoring' set to 'No', 'Monitoring Role' set to 'No', and 'Granularity' set to '60' second(s). There is a checkbox for 'I authorize RDS to create the IAM role rds-monitoring-role'. The 'Maintenance' section shows 'Auto Minor Version Upgrade' set to 'Yes' and 'Maintenance Window' set to 'No Preference'. The bottom of the page shows the AWS console navigation bar with 'AWS', 'Services', and 'Edit' tabs, and the footer with '© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and 'Privacy Policy' and 'Terms of Use' links.

- Click 'View Your DB Instance'

The screenshot shows the AWS RDS console 'View Your DB Instance' page. The browser address bar shows the URL: <https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=g>. The page is titled 'View Your DB Instance' and shows a progress bar with four steps: 'Step 1: Select Engine', 'Step 2: Production?', 'Step 3: Specify DB Details', and 'Step 4: Configure Advanced Settings'. A green box with a checkmark indicates 'Your DB Instance is being created.' Below this, a note states: 'Note: Your instance may take a few minutes to launch.' The 'Connecting to your DB Instance' section explains that you will be unable to connect to your database instance unless you have previously authorized access on your chosen security group. There is a link to 'Go to the Security Groups Page'. The 'Related AWS Services' section includes 'Amazon ElastiCache' and a link to 'Click here to learn more and launch your Cache Cluster'. At the bottom, there is a blue button labeled 'View Your DB Instances'. The bottom of the page shows the AWS console navigation bar with 'AWS', 'Services', and 'Edit' tabs, and the footer with '© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and 'Privacy Policy' and 'Terms of Use' links.

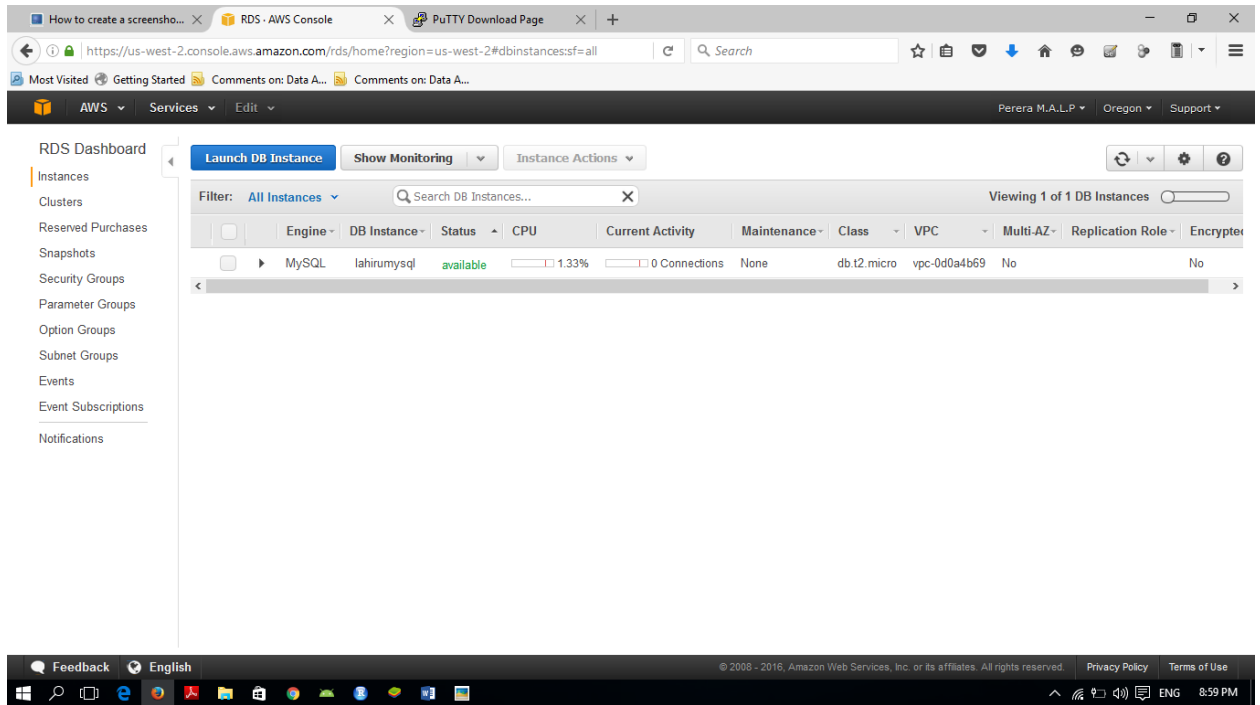
- Wait until the status become 'available' from 'creating'. This will take several minutes.

The screenshot shows the AWS RDS console interface. The left sidebar contains navigation links: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area is titled 'RDS Dashboard' and includes buttons for 'Launch DB Instance', 'Show Monitoring', and 'Instance Actions'. A table lists the DB instances, with one instance named 'lahurumysql' in the 'creating' status. The table headers are: Filter (All Instances), Search DB Instances..., Viewing 1 of 1 DB Instances, and a table with columns: Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, Replication Role, and Encrypted.

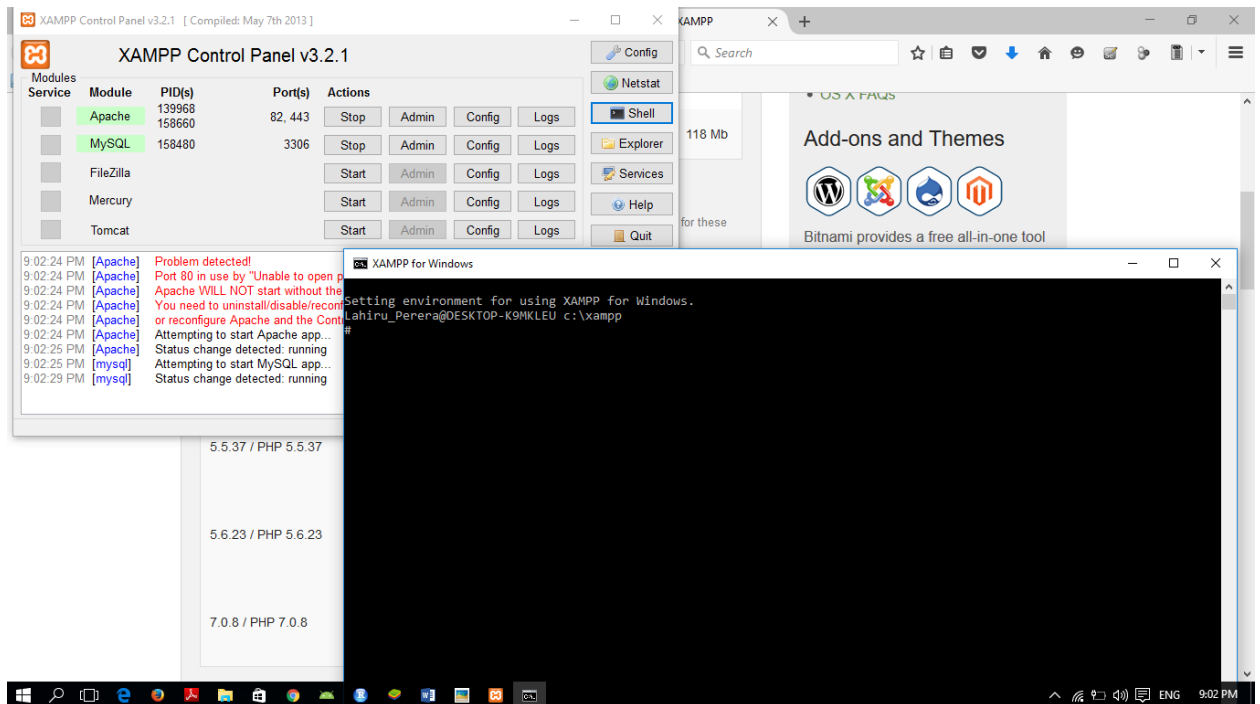
Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	Encrypted
MySQL	lahurumysql	creating			None	db.t2.micro	vpc-0d0a4b69	No		No

The screenshot shows the AWS RDS console interface, similar to the previous one, but the status of the 'lahurumysql' instance has changed to 'backing-up'. The table headers and structure are the same as in the previous screenshot.

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	Encrypted
MySQL	lahurumysql	backing-up			None	db.t2.micro	vpc-0d0a4b69	No		No



- Open xampp enable MySQL then select 'shell' and type `mysql -h localhost -P 3306 -u Lahiru_Perera -p` and provide password previously you provided ,then press 'enter'. You can see the MySQL instance has created.(can use workbench also)



How to create a screenshot... RDS - AWS Console PuTTY Download Page Download XAMPP

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dinstancesid=lahirum Search

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RDS Dashboard

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

Legend: lahirumysql

CloudWatch Alarms: No alarms

Filter: All Instances

Engine: DB Instance

MySQL lahirumysql

Endpoint: lahirumysql.culhgc0vr4d.us-west-2.rds.amazonaws.com:3306

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Jul 30 8:51 PM	Finish backu
Jul 30 8:49 PM	Backu
Jul 30 8:48 PM	DB in
Jul 30 8:47 PM	DB in

Instance Actions Tag

```
mysql -h lahirumysql.culhgc0vr4d.us-west-2.rds.amazonaws.com:3306 -u Lahiru_Perera -p

Setting environment for using XAMPP for Windows.
Lahiru_Perera@DESKTOP-K9MKLEU c:\xampp
# mysql -h lahirumysql.culhgc0vr4d.us-west-2.rds.amazonaws.com:3306 -u Lahiru_Perera -p
Enter password: *****
```

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ENG 9:27 PM