SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

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Group Number:

Practical Session: WD

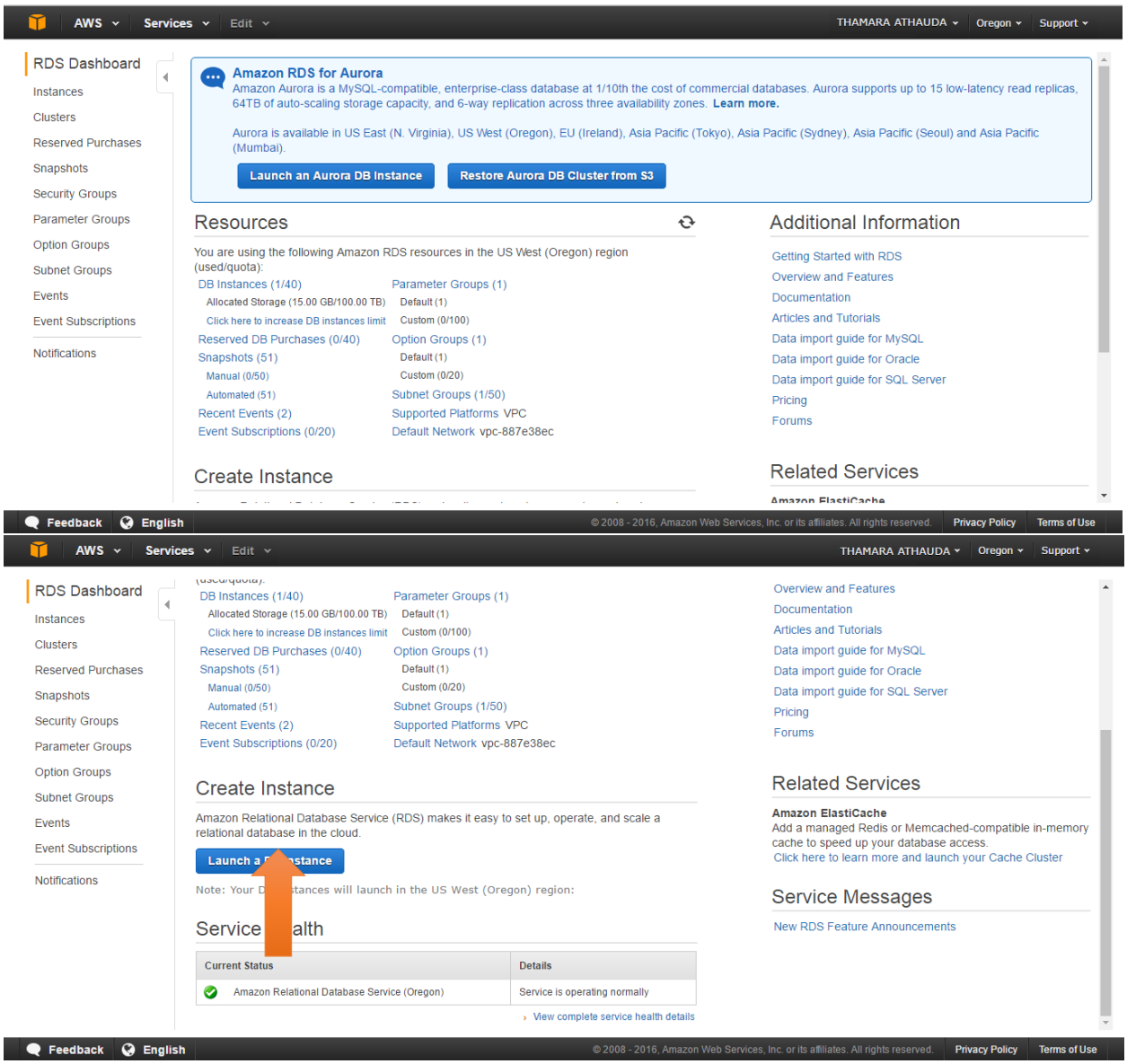
Practical Number : <Lab 3>

Date of Submission: 2016-07-30

Date of Evaluation : _____

Evaluators Signature : _____

Practical 3


AWS
Services
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Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Amazon RDS for Aurora
Amazon Aurora is a MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. Aurora supports up to 15 low-latency read replicas, 64TB of auto-scaling storage capacity, and 6-way replication across three availability zones. Learn more.
Aurora is available in US East (N. Virginia), US West (Oregon), EU (Ireland), Asia Pacific (Tokyo), Asia Pacific (Sydney), Asia Pacific (Seoul) and Asia Pacific (Mumbai).
Launch an Aurora DB Instance
Restore Aurora DB Cluster from S3
Resources
You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota):
DB Instances (1/40)
Allocated Storage (15.00 GB/100.00 TB)
Click here to increase DB instances limit
Reserved DB Purchases (0/40)
Snapshots (51)
Manual (0/50)
Automated (51)
Recent Events (2)
Event Subscriptions (0/20)
Parameter Groups (1)
Default (1)
Custom (0/100)
Option Groups (1)
Default (1)
Custom (0/20)
Subnet Groups (1/50)
Supported Platforms VPC
Default Network vpc-887e38ec
Additional Information
Getting Started with RDS
Overview and Features
Documentation
Articles and Tutorials
Data import guide for MySQL
Data import guide for Oracle
Data import guide for SQL Server
Pricing
Forums
Related Services
Create Instance
Feedback
English
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Recent Events (2)
Event Subscriptions (0/20)
Parameter Groups (1)
Default (1)
Custom (0/100)
Option Groups (1)
Default (1)
Custom (0/20)
Subnet Groups (1/50)
Supported Platforms VPC
Default Network vpc-887e38ec
Create Instance
Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database in the cloud.
Launch a
stance
Note: Your D
tances will launch in the US West (Oregon) region:
Service
alth
Current Status
Details
Amazon Relational Database Service (Oregon)
Service is operating normally
View complete service health details
Overview and Features
Documentation
Articles and Tutorials
Data import guide for MySQL
Data import guide for Oracle
Data import guide for SQL Server
Pricing
Forums
Related Services
Amazon ElastiCache
Add a managed Redis or Memcached-compatible in-memory cache to speed up your database access.
Click here to learn more and launch your Cache Cluster
Service Messages
New RDS Feature Announcements
Feedback
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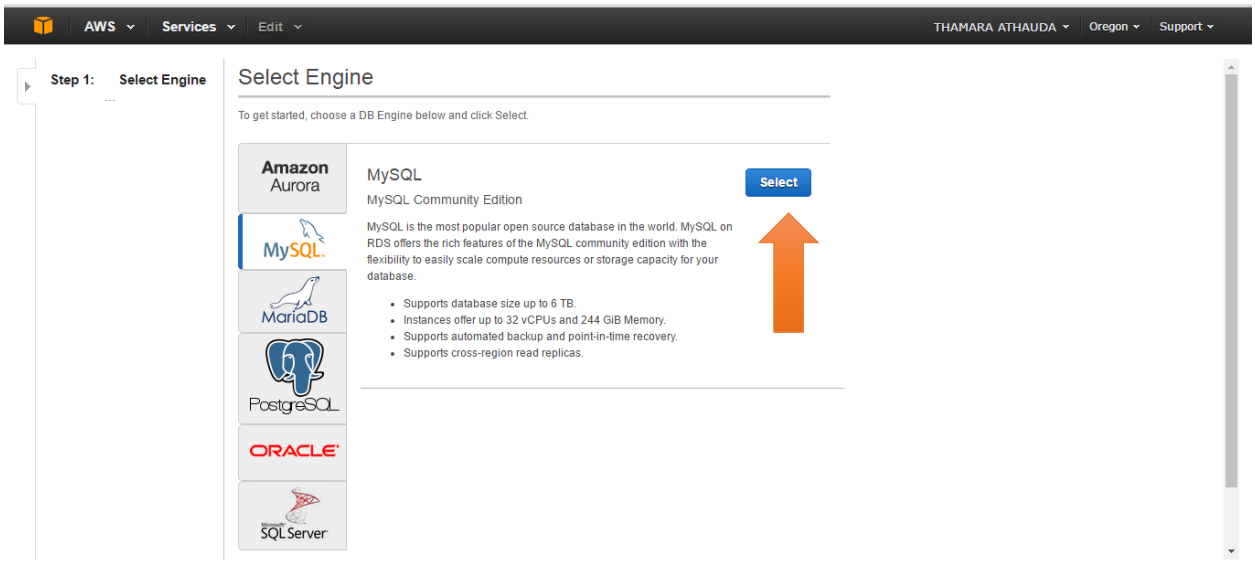
AWS
Services
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Support
Step 1: Select Engine
Select Engine
To get started, choose a DB Engine below and click Select.
Amazon Aurora
MySQL
MariaDB
PostgreSQL
ORACLE
Microsoft SQL Server
MySQL
MySQL Community Edition
Select
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.
Supports database size up to 6 TB.
Instances offer up to 32 vCPUs and 244 GiB Memory.
Supports automated backup and point-in-time recovery.
Supports cross-region read replicas.
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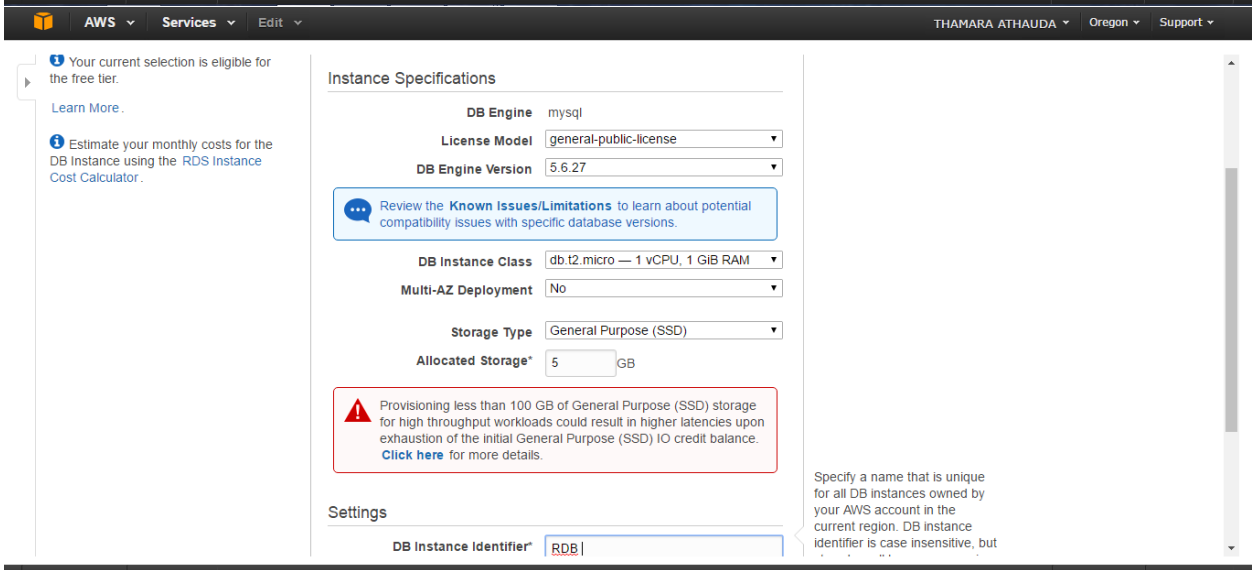
AWS
Services
Edit
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Oregon
Support
Your current selection is eligible for the free tier.
Learn More.
Estimate your monthly costs for the DB Instance using the RDS Instance Cost Calculator.
Instance Specifications
DB Engine mysql
License Model general-public-license
DB Engine Version 5.6.27
Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.
DB Instance Class db.t2.micro — 1 vCPU, 1 GiB RAM
Multi-AZ Deployment No
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* RDB
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
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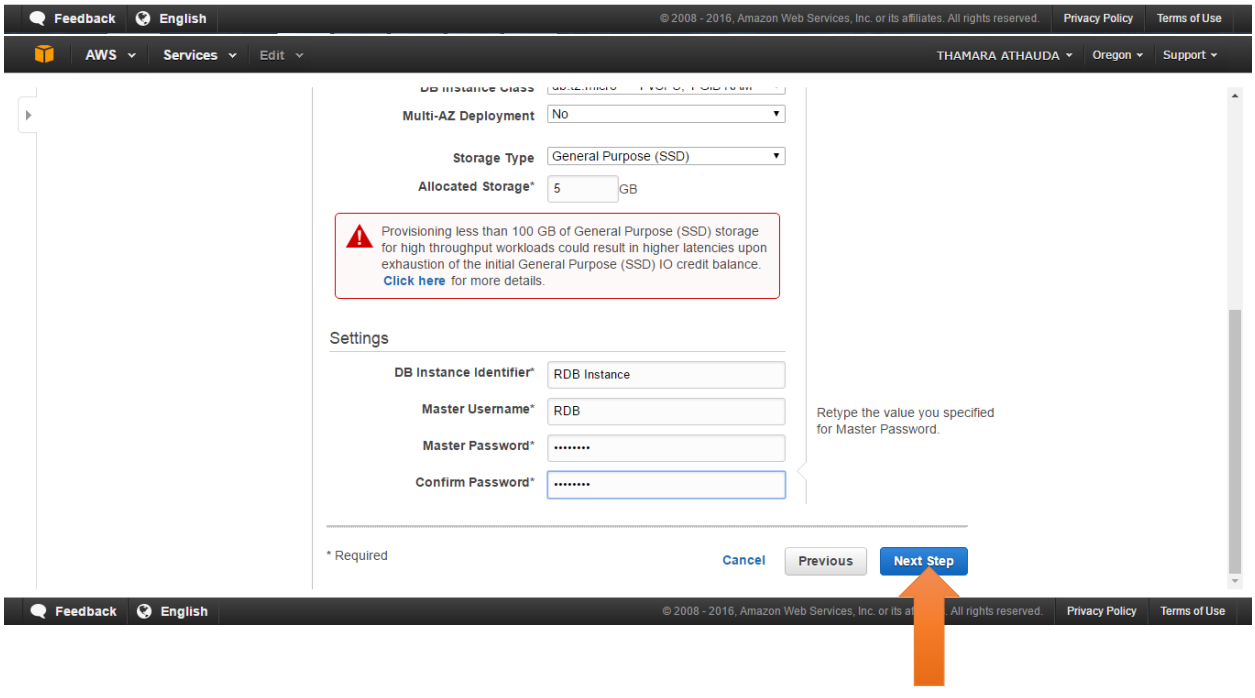
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Multi-AZ Deployment No
Storage Type General Purpose (SSD)
Allocated Storage* 5 GB
Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. Click here for more details.
Settings
DB Instance Identifier* RDB Instance
Master Username* RDB
Master Password* ••••••••
Confirm Password* ••••••••
Retype the value you specified for Master Password.
* Required
Cancel
Previous
Next Step
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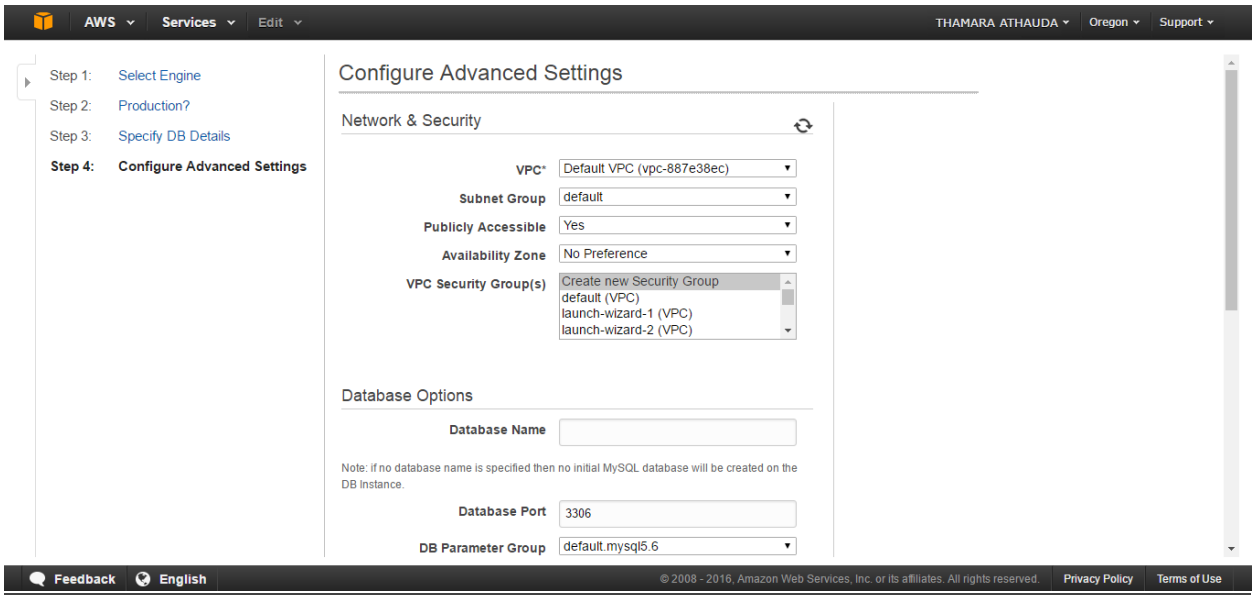
AWS
Services
Edit
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Oregon
Support
Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
Configure Advanced Settings
Network & Security
VPC*
Default VPC (vpc-887e38ec)
Subnet Group
default
Publicly Accessible
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
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
Feedback
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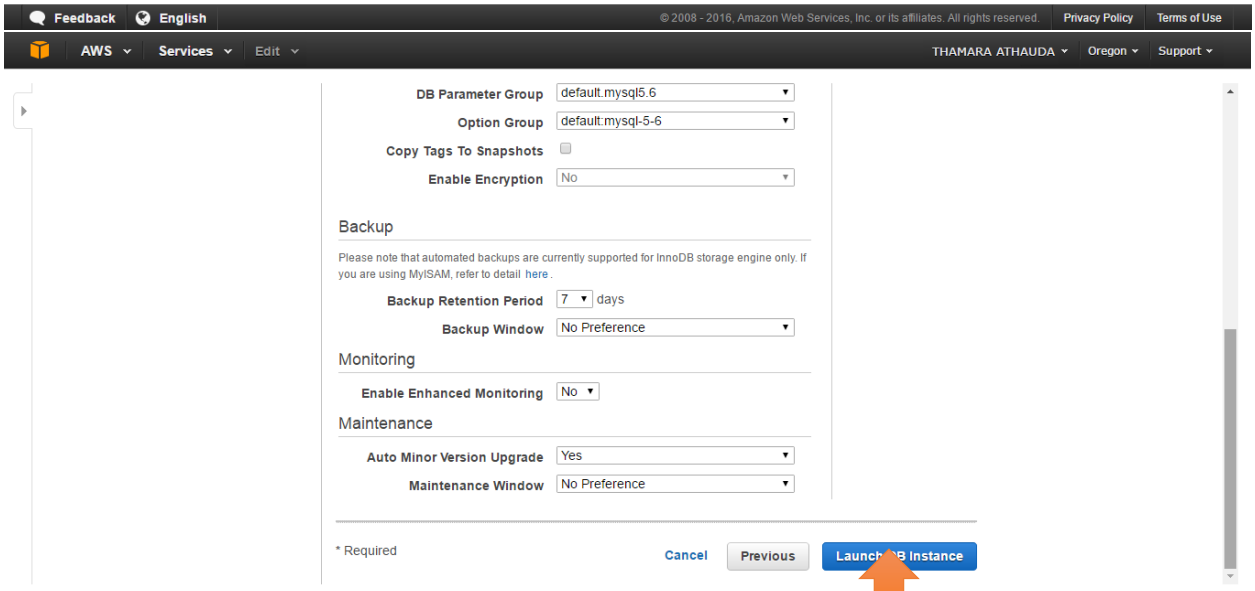
AWS
Services
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Support
DB Parameter Group
default.mysql5.6
Option Group
default:mysql-5-6
Copy Tags To Snapshots
Enable Encryption
No
Backup
Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail here.
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
Feedback
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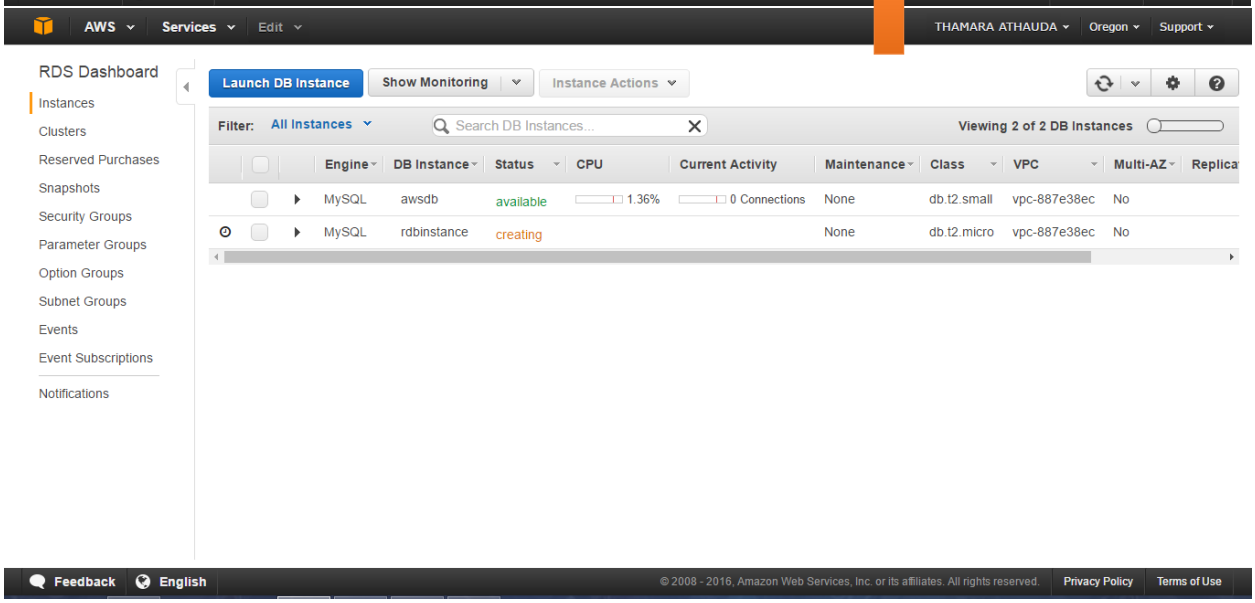
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Show Monitoring
Instance Actions
Filter: All Instances
Search DB Instances...
Viewing 2 of 2 DB Instances
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
VPC
Multi-AZ
Replica
MySQL awsdb available 1.36% 0 Connections None db.t2.small vpc-887e38ec No
MySQL rdbinstance creating None db.t2.micro vpc-887e38ec No
Feedback
English
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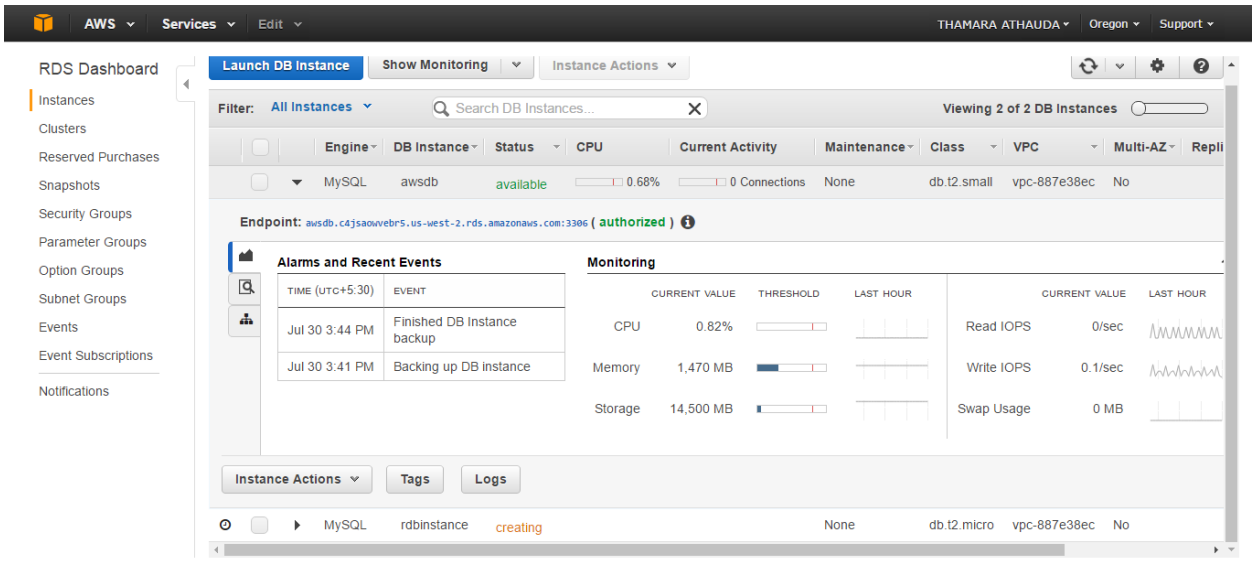
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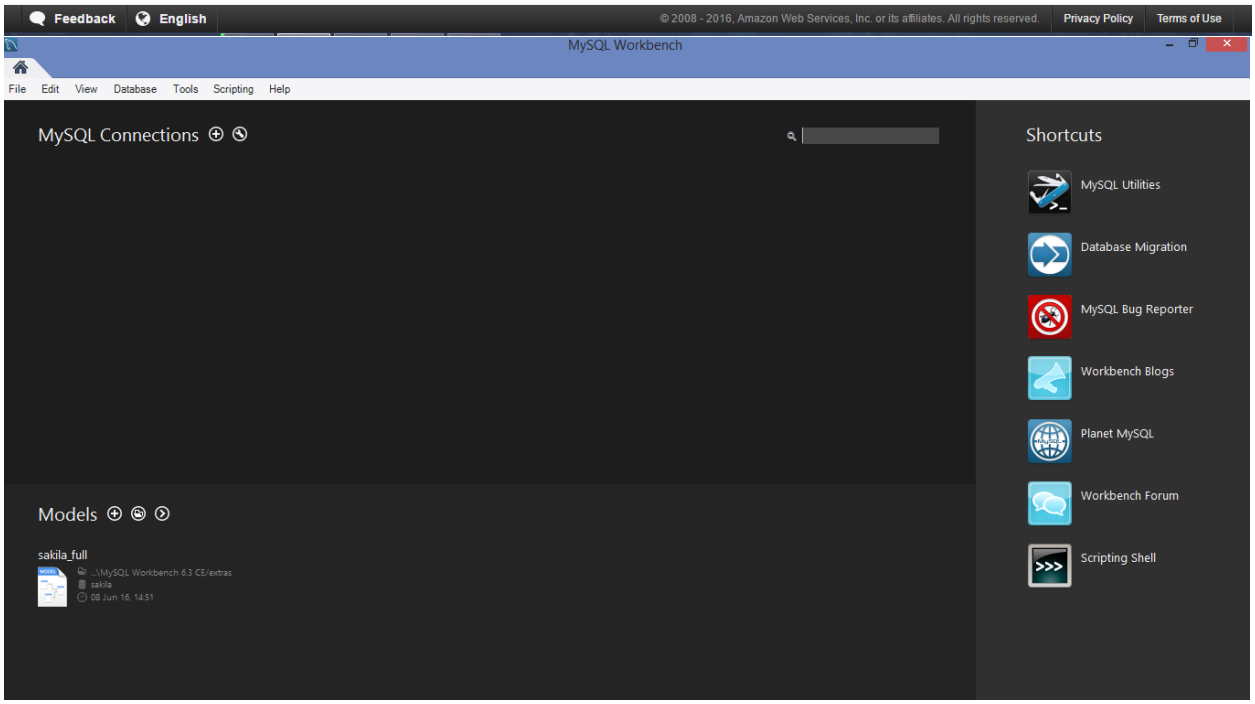
Show Monitoring
Instance Actions
Filter: All Instances
Search DB Instances...
Viewing 2 of 2 DB Instances
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
VPC
Multi-AZ
MySQL awsdb available 0.68% 0 Connections None db.t2.small vpc-887e38ec No
Endpoint: awsdb.c4jsaowvebr5.us-west-2.rds.amazonaws.com:3306 (authorized)
Alarms and Recent Events
TIME (UTC+5:30)
EVENT
Jul 30 3:44 PM
Finished DB Instance backup
Jul 30 3:41 PM
Backing up DB instance
Monitoring
CURRENT VALUE
THRESHOLD
LAST HOUR
CPU 0.82%
Memory 1,470 MB
Storage 14,500 MB
Read IOPS 0/sec
Write IOPS 0.1/sec
Swap Usage 0 MB
Instance Actions
Tags
Logs
MySQL rdbinstance creating None db.t2.micro vpc-887e38ec No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MySQL Workbench
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MySQL Connections
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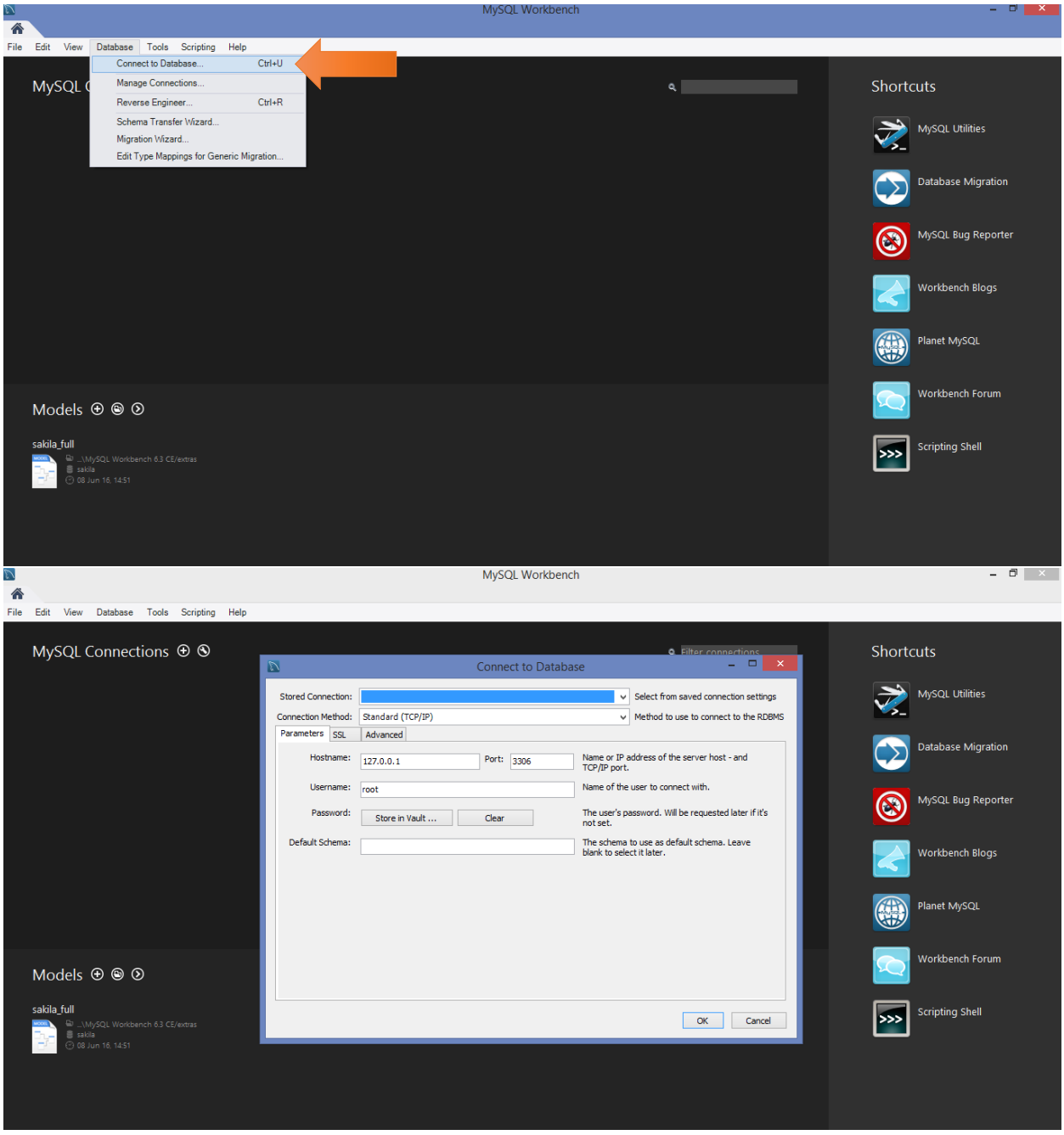
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell


MySQL Workbench
File Edit View Database Tools Scripting Help
Connect to Database... Ctrl+U
Manage Connections...
Reverse Engineer... Ctrl+R
Schema Transfer Wizard...
Migration Wizard...
Edit Type Mappings for Generic Migration...
Shortcuts
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Models
sakila_full
MySQL Workbench
File Edit View Database Tools Scripting Help
MySQL Connections
Connect to Database
Stored Connection:
Select from saved connection settings
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
127.0.0.1
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
root
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
OK
Cancel
Shortcuts
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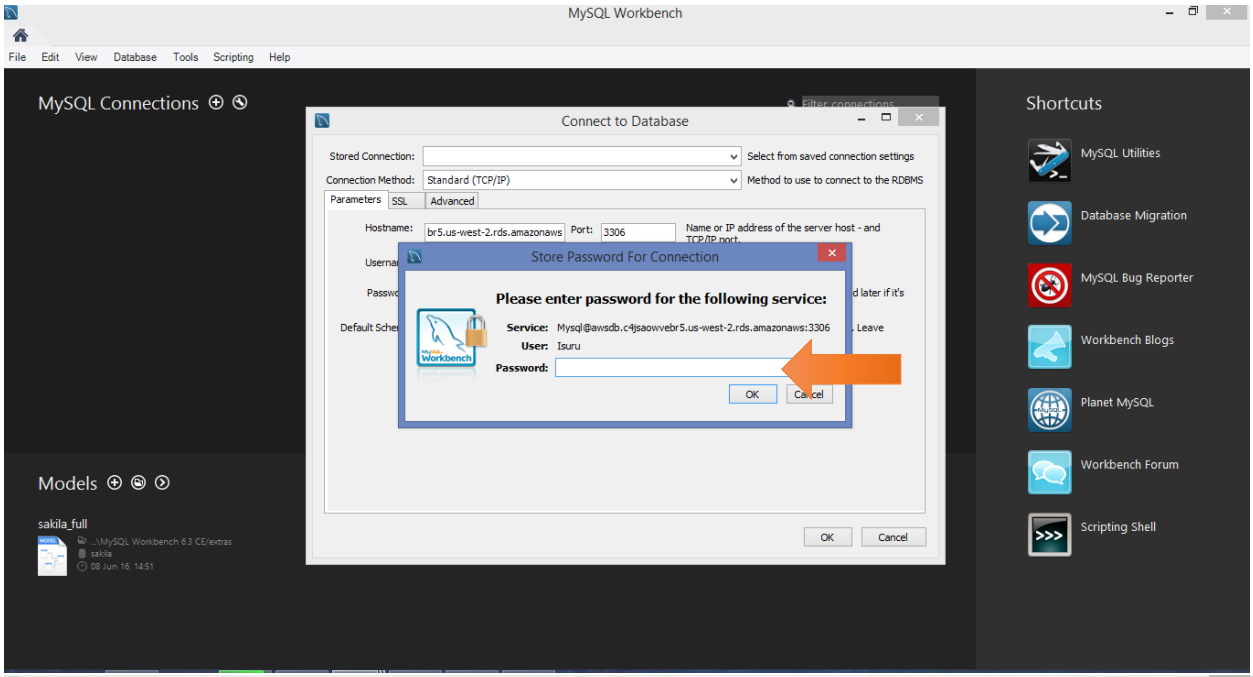
MySQL Workbench
File Edit View Database Tools Scripting Help
MySQL Connections
Connect to Database
Stored Connection:
Select from saved connection settings
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters SSL Advanced
Hostname:
br5.us-west-2.rds.amazonaws
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Store Password For Connection
Please enter password for the following service:
Service: Mysql@awsdb.c4jsaowvebr5.us-west-2.rds.amazonaws:3306
User: Isuru
Password:
OK
Cancel
Default Schema:
Leave
Models
sakila_full
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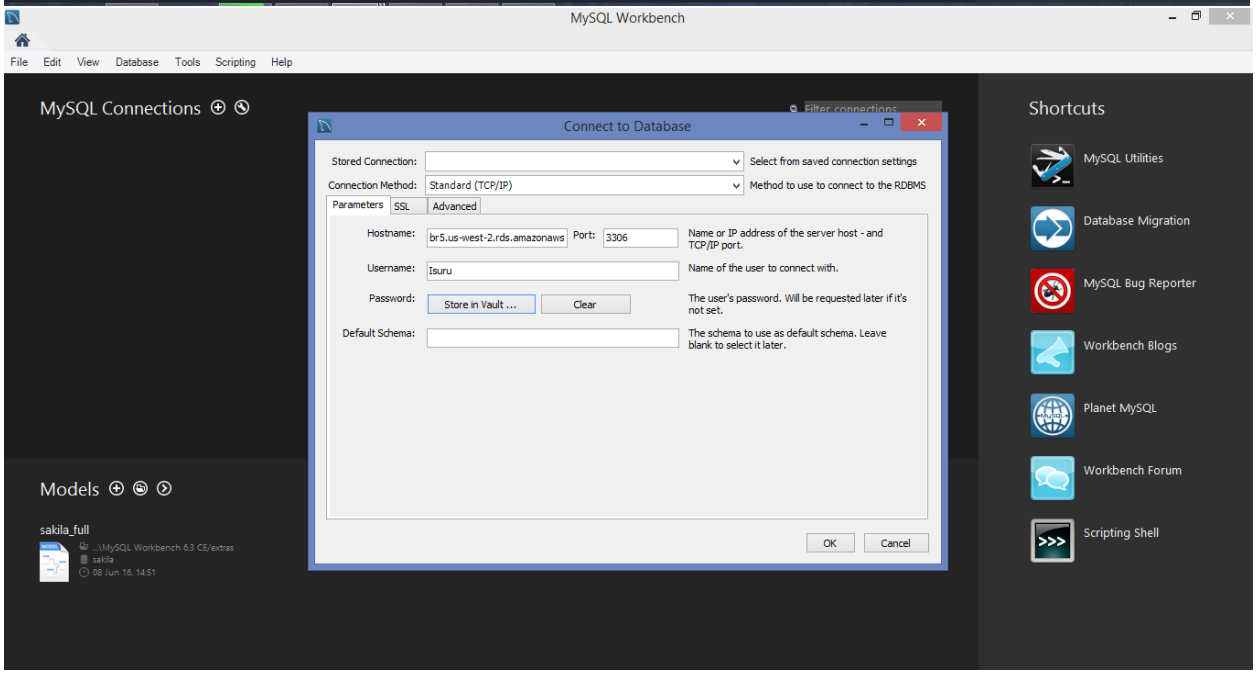
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell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File Edit View Database Tools Scripting Help
MySQL Connections
Connect to Database
Stored Connection:
Select from saved connection settings
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters SSL Advanced
Hostname:
br5.us-west-2.rds.amazonaws
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
Isuru
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
OK
Cancel
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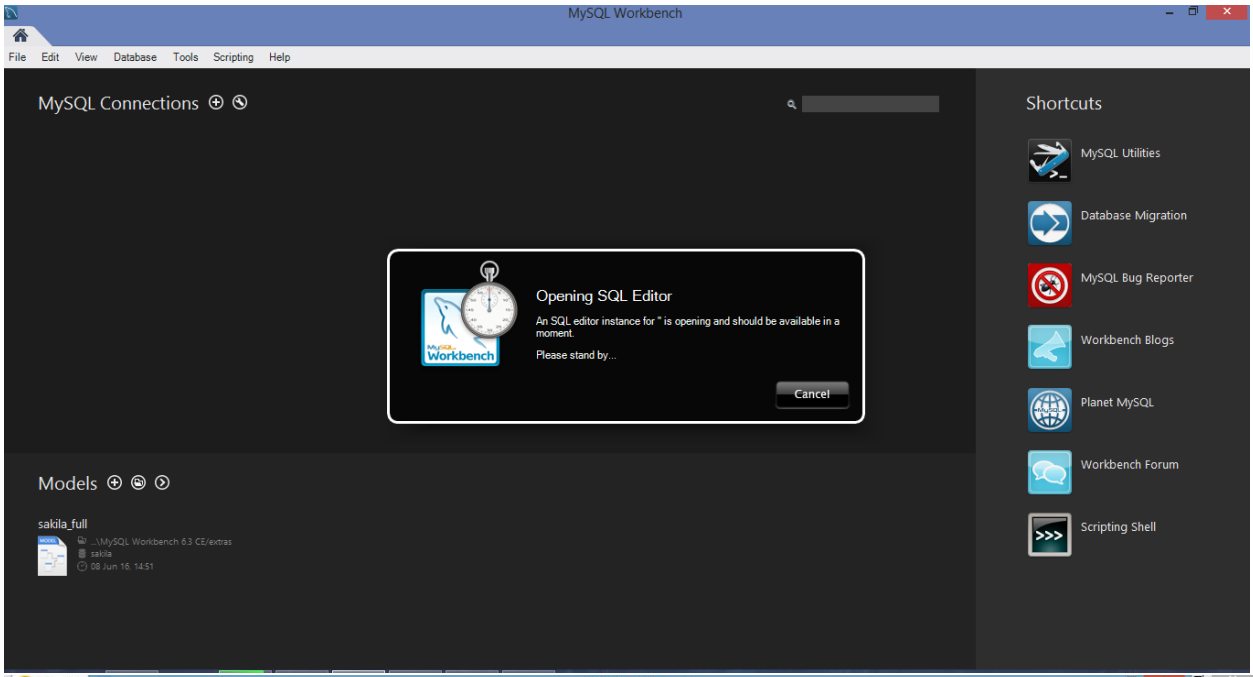
MySQL Workbench
File Edit View Database Tools Scripting Help
MySQL Connections
Opening SQL Editor
An SQL editor instance for '' is opening and should be available in a moment.
Please stand by...
Cancel
Shortcuts
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
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Scripting Shell
Models
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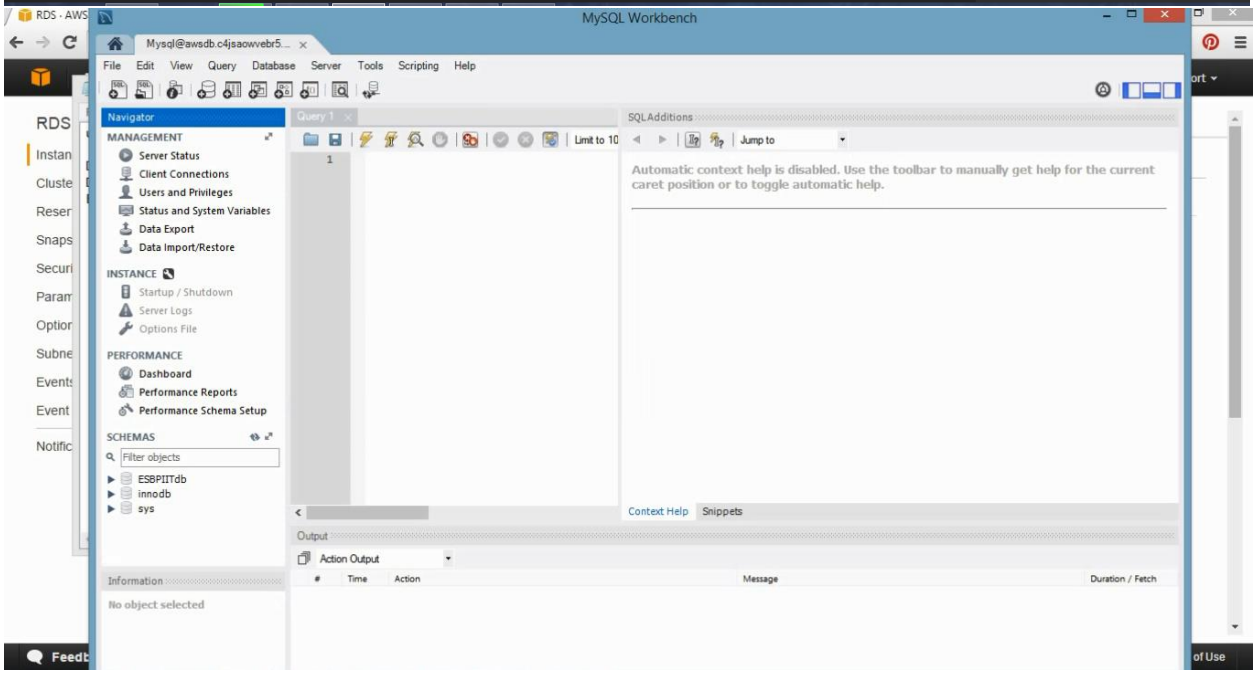
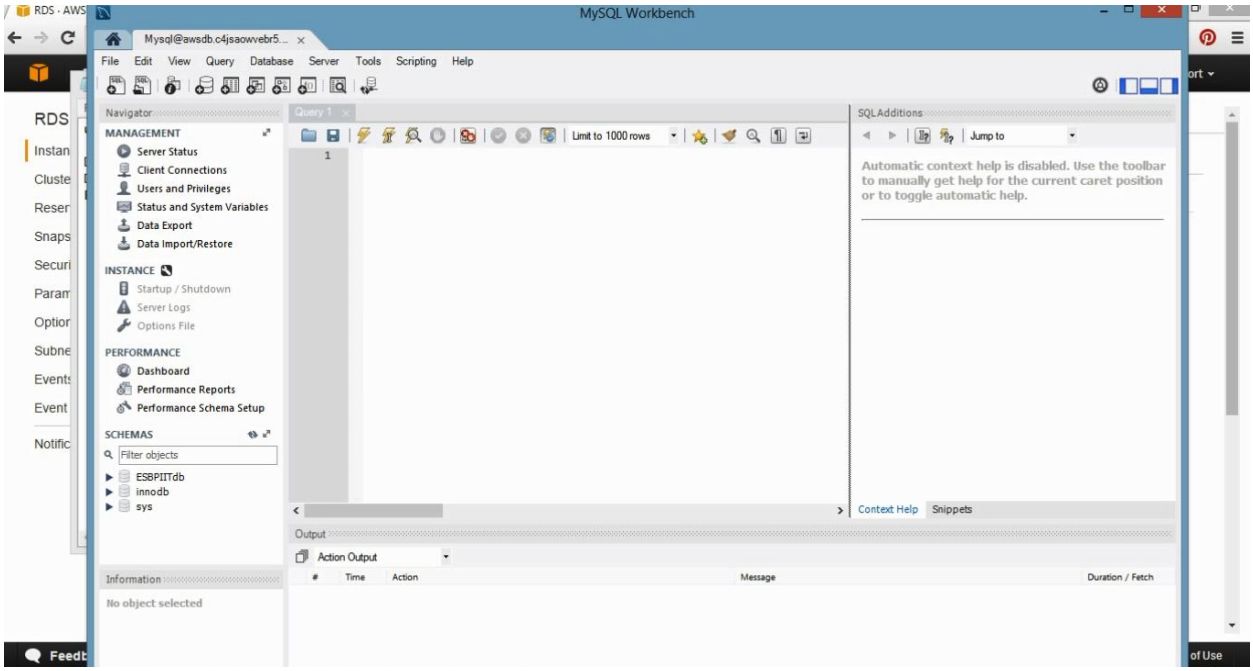

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
ESBPIITdb
innodb
sys
SQL Additions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help
Snippets
Output
Action Output
Information
No object selected


MySQL Workbench
Mysql@awsdb.c4jsaowvebr5...
File Edit View Query Database Server Tools Scripting Help
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PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
ESBPIITdb
innodb
sys
Information
No object selected
Query 1
Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help
Snippets
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Action Output
Time Action Message Duration / Fetch