GV918 - Week 09-Amazon-RDS

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## Class Exercise

### Contents

1. Set up mySQL database on Amazon RDS

### 0. Go to AWS console

1. Go to AWS Academy Login <https://awsacademy.instructure.com/login/canvas>
2. Go to AWS Academy Learner Lab
3. Go to Module -> “Learner Lab - Foundational Services”
4. Click Start Lab (and wait)
5. Open AWS console (Click AWS)

### 1. Create a mySQL database

Now we create a database

1. Go to RDS dashboard
2. Select region (N. Virginia US-East-1)
3. Select “Create Database”
4. Engine: Select “MySQL”
5. Templates: Select “Dev/Test”
6. Availability: Single DB instance
7. Identifier: Give an easy-to-understand identifier (e.g. gv918-class)
8. Credential setting
   * Remember password
9. Instance class: “Burstable classes”
   * “db.t3.micro”
10. Storage
    * General Purpose SSD (gp2)
    * 20GB
    * Untick autoscaling
11. Monitoring
    * Monitoring: untick “Enable Enhanced monitoring”
12. Connectivity
    * Public access “Yes”
    * Security group “Create new”, decide name
    * Port: 3306
13. Additional configration
    * Initial database name: “testdb”
    * Backup: untick Enable automated backups
    * Untick: “Enable deletion protection”
14. Click “Create database”
15. If you chose “autogenerate password”, click “View credential details” and save the password.

### 2. Change security setting

At the moment, the db can be accessed from your IP. We need to change it, to access the database from Colab notebook

1. In “Databases”, select the Database
2. Click security group name
3. Inbound rule: Anywhere IPv4
4. (Click AWS detail)
5. Click “Download PEM”

### 3. Prepare connecting from Colab

1. Copy endpoint url
2. Open colab