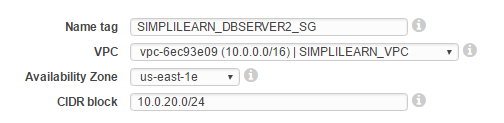
**LESSON 8 PRACTICE ASSIGNMENT**

Your company wants to use an RDS instance as the data repository for their webserver.  
  
You will need to do the following:  
  
1. Create an additional private subnet in your custom VPC  
2. Verify the inbound rules for your DBSERVER Security Group  
3. Create a DB Subnet Group to host your RDS instance  
4. Launch a MySQL RDS instance into the DB Subnet Group  
5. Launch a new webserver into a public subnet of your custom VPC  
6. Configure connectivity between the webserver and the RDS instance  
  
You can use Demonstration 1 from this lesson as a reference for this Practice Assignment.

1. Login to AWS and open up VPC.
2. Click on “Subnets” and “Create New Subnet”.
3. Configure the new private subnet as follows and make sure that you select a different availability zone to the existing private subnet. Then click on “Create Subnet”.



1. Click on “Security Groups” and make sure that you have a security group called “SIMPLILEARN\_WEBSERVER\_SG” that allows inbound connections on SSH, HTTP and HTTPS.
2. Make sure that you have a security group called “SIMPLILEARN\_DBSERVER\_SG” that allows inbound connections from the “SIMPLILEARN\_WEBSERVER\_SG” security group.



1. Click on “Instances” and “Launch DB Instance”.
2. Switch to the RDS dashboard and click on “Subnet Groups”.
3. Click “Create DB Subnet Group”.
4. Enter the following details:

Name: SIMPLILEARN\_DB\_SUBNET\_GROUP  
VPC ID: SIMPLILEARN\_VPC

Then add the two private subnets by selecting their “Availability Zone” and “Subnet ID” and clicking on “Add” to add them to the DB Subnet Group.

1. Select a MySQL then click “Next Step”.
2. Enter the following details:

DB Instance Class: Choose an appropriate size, for example t2.micro  
Multi-AZ Deployment: No   
DB Instance Identifier: Choose an appropriate name  
Master Username: Choose an appropriate username  
Master Password: Choose an appropriate password

1. Click on “Next Step”.
2. On the “Configure Advanced Settings” enter the following:

VPC: SIMPLILEARN\_VPC  
Subnet Group: simplilearn\_db\_subnet\_group  
VPC Security Groups: SIMPLILEARN\_DBSERVER\_SG

1. If you do not need to change any other details, click “Launch DB Instance”.
2. Open up the EC2 dashboard and launch a new webserver. Follow the steps in the Lesson 5 Practice Assignment or alternatively reuse one of the webservers you have already created in this VPC. **NB! Make sure they are using the SIMPLILEARN\_WEBSERVER\_SG.**
3. Logon to the webserver and setup a connection test script called connection\_test.php and enter the following text. **NB! Edit the items shaded in yellow and enter your RDS instance details.**

<?php

$username = "administrator";  
$password = "password";  
$hostname = "endpoint";

//connection to the database

$dbhandle = mysql\_connect($hostname, $username, $password)  
 or die("Unable to connect to MySQL");  
echo "Connected to MySQL using username - $username, password - $password, host - $hostname<br>";  
?>

1. Open up a web browser and enter the following URL:

<webserver IP address>/connection\_test.php

You should get a response telling you that you are connected to your MySQL RDS instance.