RDS Handout
Spring 2015

At this point, I assume everyone has an AWS Account with their redeem points.

For every team, it's better to have one person looking over the infrastructure which is the RDS Instance and EC2 Instance. This person can use the points of the other teammates as we progress through the project.

1. Go to AWS Management Console and select RDS.
2. Make sure your region on the right-top corner is N. Virginia. This will not affect your application in any way, but it's a practice that the closer the instance, the faster it is.
3. Click on Instances.
4. Select 'Launch DB Instance'
5. From the list of databases, select Oracle and then choose your database. I would select the Enterprise Edition as it offers best performance and features (Not that we need extensive features apart from the Standard Edition, but just to be cool ;))
6. In the next window, you won't need the Multi A-Z Deployment as we are not releasing the project for extensive use. So select the second option:
   - No, this instance is intended for use outside of production or under the RDS Free Usage Tier
7. In the next window you need not change anything except the instance:
   - The micro instance is free, but it has low performance. As your application scales, your database should be big enough to service all the requests. So you need to make a right decision early, so that you don't have to modify your Database when you realize you need more performance.
     "PLEASE LOOK AT THE PRICING FOR THE INSTANCE AND THEN PLAN ACCORDING TO THE TIME YOU WILL USE IT"
   - For now, as you wouldn't have many users working simultaneously on your application, I think a 'db.m3.medium' or 'db.m3.large' instance should be good.
   - For the allocated storage, 10 GB "could be" sufficient initially, but you can always modify the storage (and your Instance class) at a later point, when you realize you need more space.
8. Choose a unique name as identifier for your DB instance and choose your username and password. You need these details to connect to your instance using either SQL Developer or your code.
   - For example, I enter my credentials as:
     - DB Instance Identifier: mydbinstance
     - Master Username: myusername
9. In the next window, you need to select a VPC which should be open to accept incoming connections. For now, you can select the 'default(VPC)'
10. Make sure you choose a name for your database. The instance name is different from your database name. The best analogy is your Instance is like your 'MacBook', while your database name is a file in your macbook, which you need to open and edit.
    - I select my Database Name as 'MyDb'
11. Now go to your 'Security Groups' by selecting the 'Go to EC2 Console'.
12. Select the default VPC, select 'Inbound' in the panel below and make changes so that it looks as below and select 'Save'

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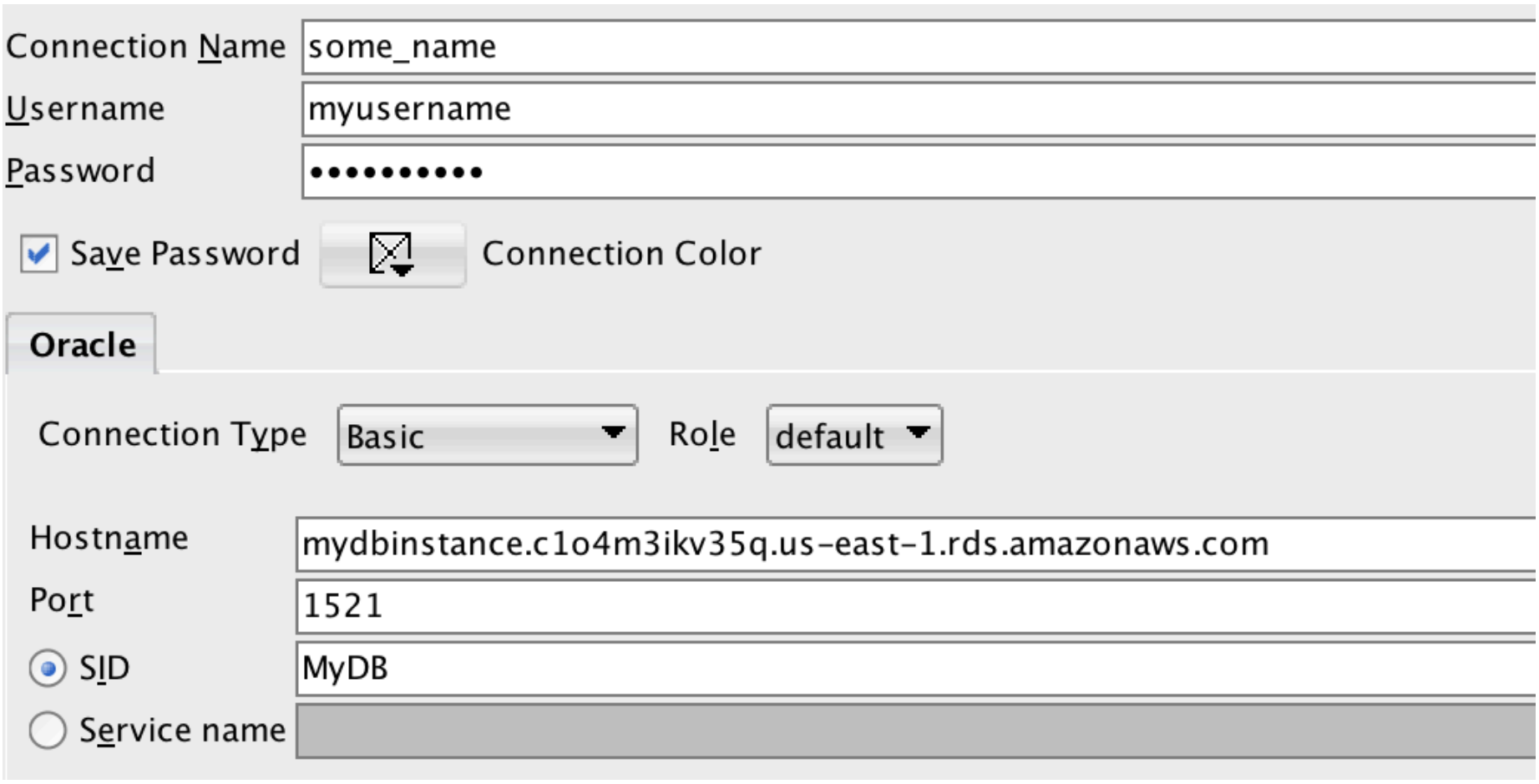
Cancel **Save**

Type	Protocol	Port Range	Source	R
ALL Traffic	ALL	ALL	0.0.0.0/0	

13. Give some time for your instance to be created. Try refreshing the "Page" if it's taking a lot of time.
14. Once it is created, click on the instance, and look for the endpoint to the database. You will use this to connect to your instance.

Now, open SQL Developer and create a new connection, which looks as following for me, make sure you remove the port number(':1521') in the end and enter the right DB name in the SID Field.



If you are able to connect, your DB instance is up and running.
Good luck with your project!

Make sure you delete your DB and EC2 instances once you are done with the Project!