27-12-22

SE
BA
~~EC~~
Cloud
Proj

O'REILLY - free test for exam.

Load Autoscaling group.

1) EC2 dashboard.
2) Auto Scaling = giving instruc. to system to add server and remove and when to do that
3) Launch Configuration
4) Create launch configuration
launch config name: LC-Auto-Scaling
5) AMI
5) Creat Launch Template
6)

EC2

1) Create launch template - Name: Temp
2) Temp-1 (version)
3) Click Provide guidance
4) AMI - linux
5) Instance type - t2.micro
6) Key Pair - existing, security group
7) Storage
8) Creat launch template
9) Click on Auto Scaling groups in EC2 dashboard.

1) [Create Auto Scaling group]

2) Launch Temp - choose temp created recently (TempP

3) [Next]

4) VPC - VPC035

5) Availability zones and Subnets
south-1a and south-1b

6) [NEXT]

7) No load balancer

8) Health check = 245 Seconds.

9) [Next]

10) Desired capacity = 2
min " = 1
maximum capa = 3

11) Target Scaling Policy
↳ Target Tracking Policy
↳ Avg CPU utilization
↳ Target value = 90
↳ 300

12) [Next]

13) [Add notification]

14) [Next]

15) Add tag - Name, value

16) [launch]

Create Dynamic scaling group

1) Policy Type - step scaling

FileZilla

Dashboard

1) IAM
2) Click on Users
3) Click [Add users]
4) Username : newuser1003
5) Select Access key and Password
6) Custom Password : 31Stargeeeeet@
7) [Permissions]
8) ~~Create group~~ [Attach existing Policies]
9) Search S3 → Amazon S3 Full Access → Administrator access
10) [Next: Tags] ~~Name~~ key : name value : value
11) [Next: Review]
12) [Create user]
13) [Download CSV]
14) Open CSV - copy link
15) Paste link
16) $ Login with IAM

17) Amazon S3
18) Create Bucket

Add load Balancer to Auto Scaling
create new users - set new roles for users

30/12/2022

RDS

Click Subnet groups

1) Create DB subnet

2) Name : SB - Group - 1
Desc : Subnet group fo my sql
vpc
Availability - 2 groups

Click → Databases

1) Create Database (click)
2) Standard create, ~~Amazon Aurora~~ Mysql
3) Templates - Free tier
4) Settings → mysqlServer
5) master username → master
master Pwd → master1234

Instance configuration

Storage → gp2
~~disk enable storage auto scaling~~
enable.

Connectivity

→ DB Subnet group sb-group-1
→ Public access Yes

→ Existing SGs Select

→ Select a zone south - a

monitoring

~~default~~ - x 2

~~Backup → enable 0 days~~ studb

→ Additional db name → stdatabase

→ default → default

→ 0 days keep enable tick

→ Deletion Protection → ~~tick on enable deletion~~

→ Create Database

Go to VPC edit VPC setting

→ enable DNS resolution, host name.

→ Double click server

Search mySQL workbench in system

mycon

1) Click on (+)

Connection Name : mysqlconn

Paste endpoint in Hostname

Uname → master Pwd master1234

OK

Test Connection OK

2) Double click connection name.

stdatabase (Double click)

↳ Right Click Tables → Create Table.

3) Table name : login

Column Name
↳ userid int PK NN
↳ pwd varchar(25)

APPLY x2 Finish

in login Table to insert data

111	abc
222	hel
333	bye

APPLY

PhP_mysql Write PhP code and display values from table

Q. Retrieve data from db server using php-code on ec2-user.

Q2. username
Password
IP address – endpoint

Select * from tablename;

Q2. Retrieve data from ~~ec2~~ ~~co~~ db server EC2 command prompt.

Q3. Run php code in local System by incorporating in XAMPP Server.

sudo -i
mysql -u master -P -h Rdsendpoint -P 3306
use mysql server
Select * from ~~table~~ stdatabase.login;

Ans 2 sudo -i
mysql -u master -P -h ~~mysql~~ endpoint -P 3306
Pwd : master1234
use stdatabase;
Select * from login;

yum install mysql

Ans 1

1. create a parameter group
~~custom~~ - mysql8.0
group name - mygroup
Desc → new group

Create

2. edit Parameters
3. Select utf8 in character_set_client, character_set_connection, character_set_database, character_set_server, character_set_result.
4. SAVE 5. use this group for your server
5. Reboot RDS instance.

Now go to Putty

1. Paste IP address of Instance
2. sudo -i
3. yum install httpd
4. service httpd start
5. yum install php php-mysql
6. service httpd restart
7. cd /var/www/html

~~G. drive make spark folder~~

~~→ Paste folder in spark folder~~

copy ~~spark~~ path

8. vim test.php

Paste code.

~~<!DOC~~

~~$conn~~

```
<!DOCTYPE html>
<html>
<body>
<?php
$servername = "endpoint";
$username = "master";
$password = "master1234";
$dbname = "stdatabase";
$conn = new mysqli($servername,
    $username, $password, $dbname);

$sql = "SELECT * from login";
$result = $conn -> query($sql);
if ($result -> num_rows > 0){
  while ($row = $result -> fetch_assoc
     ()) {
  echo "<br>"Userid: ". $row
  ["userid"] . " - Password:". $row
     ["pwd"]."<br>";
```

A 3

C → xampp

1) folder htdocs (click x 2)
2) keep php file in htdocs folder.
3) google host → localhost: 80 / test.php

4 → -

1. Open Java EE (default) Java perspective.
2. Dynamic Web Project
3. Tomcat - 9.0 (New Runtime)
4. Browse D: apache - tomcat - 9.0.11
5. Select folder with bin
6. New JSP file
   <% %> for java
7. Run on Server
   Select Apache 9 → Next
   → Select Project name

Help - Eclipse Market Place
Find: aws toolkit

Icon → New AWS Java Project → Finish

New Class
run as Java application

→ New AWS Java Web Project

Elastic Beanstalk

Name: dynamicapp dynamicappenv

Type - single instance

Select VPC

Select a VPC - select EC2

Slect SG1

Deploy with key pair - slect keyPair

How to configure router ?

1. Demonstrate autoscaling group with Load bala...
2. Create a new user from the root user usi... AWS IAM and demonstrate S3 using new user account.
3. Demonstrate hosting applications from desktop using — filezilla
4. Create mySQL database server and connect to the RDS server using MYSQL workbench.
5. Create any database, retrieve data from db server by running a PHP Program on EC2 instance
6. a) Create any Database
   b) Retrieve data from db server by running commands on EC2 command prompt.
7. a) Create any Database server
   b) Retrieve data from db server by running ~~bff~~ PHP Program on local desktop System
8. Demonstrate MSSQL ~~Serv~~ db server and create an appropriate db using appropriate editor.
9. Demonstrate Dynamo DB.
10. AWS Eclipse Integration. Demonstrate by retrieving data from db server using JDBC ~~Server~~ Program.

10 → Simple AWS java project.

Exercise:

1. Running JDBC Program and connecting to database.

~~2. Create an AWS db~~

2. Retrieve data from db server by creating AWS web project using JSP Program

3. Design a form: (HTML form)