client-management-system-using-php-mysql

PROJECT INTRODUCTION:

Client Management System in PHP MySQL **is a simple web application develop in PHP MySQL Database, Using HTML, CSS JavaScript, Bootstrap, Modal and Ajax, the system contains of adding clients, services, invoices, and reports. It is simple to understand and friendly user, the admin can manage all data on the system, the clients is only can manage by own, functioning to cater all services to provide to clients.**

Project Name	-	client-management-system-using-php-mysql
Language Used	-	PHP5.6, PHP7.x
Database	-	MySQL
User Interface Design	-	HTML, AJAX, JQUERY, JAVASCRIPT
Web Browser	-	Mozilla, Google Chrome, IE8, OPERA
Software	-	XAMPP / Wamp / Mamp / Lamp (anyone)

Use DevOps methodology to deploy this project on cloud

Use following tools:

- GitHub (For Managing source code)
- Jenkins (For achieving continuous integration)
- Aws (For cloud services)
- In Aws: load configeration, Rds, Load Balancer, Autoscaling group, Ec2
- Awscli (As a configuration management tool)

PROJECT DESCRIPTION:

In Client Management System Project we use PHP and MySQL Database. This project keeps the records of clients. Client Management System has two modules ie. Admin and client.

Admin Module:

1. Dashboard: In this section, admin can briefly view the total services, total clients, total today's sales, total yesterday's sales, last seven day's sales, and total sales.

2. Services: In this section, admin can manage services (Add/Update).

3. Add Clients: In this section, admin can add new clients

4. Clients List: In this section, admin can update the client details and add services that are provided by the admin.

5. Invoices: In this section, admin can view the invoices of the client and also take print of the invoice.

6. Reports: In this section, admin can view the client's details and check the sales reports(month-wise/year wise) in a particular period.

7. Search Invoice: In this section, admin can search for clients' invoices with the help of his/her invoice number.

Admin can also update his profile, change the password and recover the password.

Client Module:

1. Dashboard: It is a welcome page for a client.

2. Invoices: In this section, client can view the invoices of the client and also take print of the invoice.

3. Search Invoice: In this section, client can search his/her invoice with the help of the invoice number.

The client can also update his/her profile, change the password and recover the password.

PROCEDURE:

➢ Install the Zip folder of project then move to Git Repository and create a file for Jenkins code and userdata

➢ Write an AWSCLI code for Creating EC2, Load Balancer, Launch configuration, ASG (Auto Scaling Group), Key Pair, RDS (Database), SG (Security Groups, Etc..).

➢ In AWSCLI Code add user data and attach required commands for running the application (installing a web server, connecting MySQL with RDS database, Etc..).

➢ After login to the Jenkins

➢ Create a Pipe line and add a Git Repository and confrig the Pipeline

➢ Then build this project using Jenkins.

➢ In Jenkins use GitHub-Webhook configuration for continuous deployment in case of any push events on GitHub.

➢ Then the project is ready for deployment. by just clicking on build now project is going to deploy on the AWS server with all required info.

FINAL-OUTPUT:

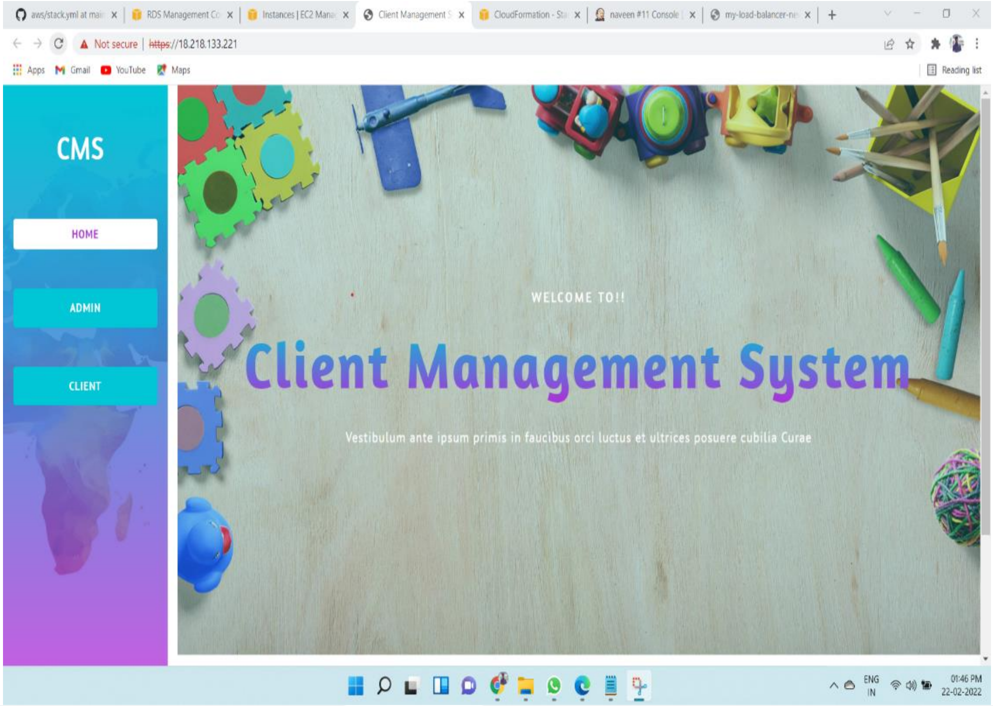
- For testing the admin panel page:

  Username: admin
  Password: Test@123

- For testing the client panel page:

  Username: phpgurukulofficial@gmail.com
  □ **Password: Test@123**

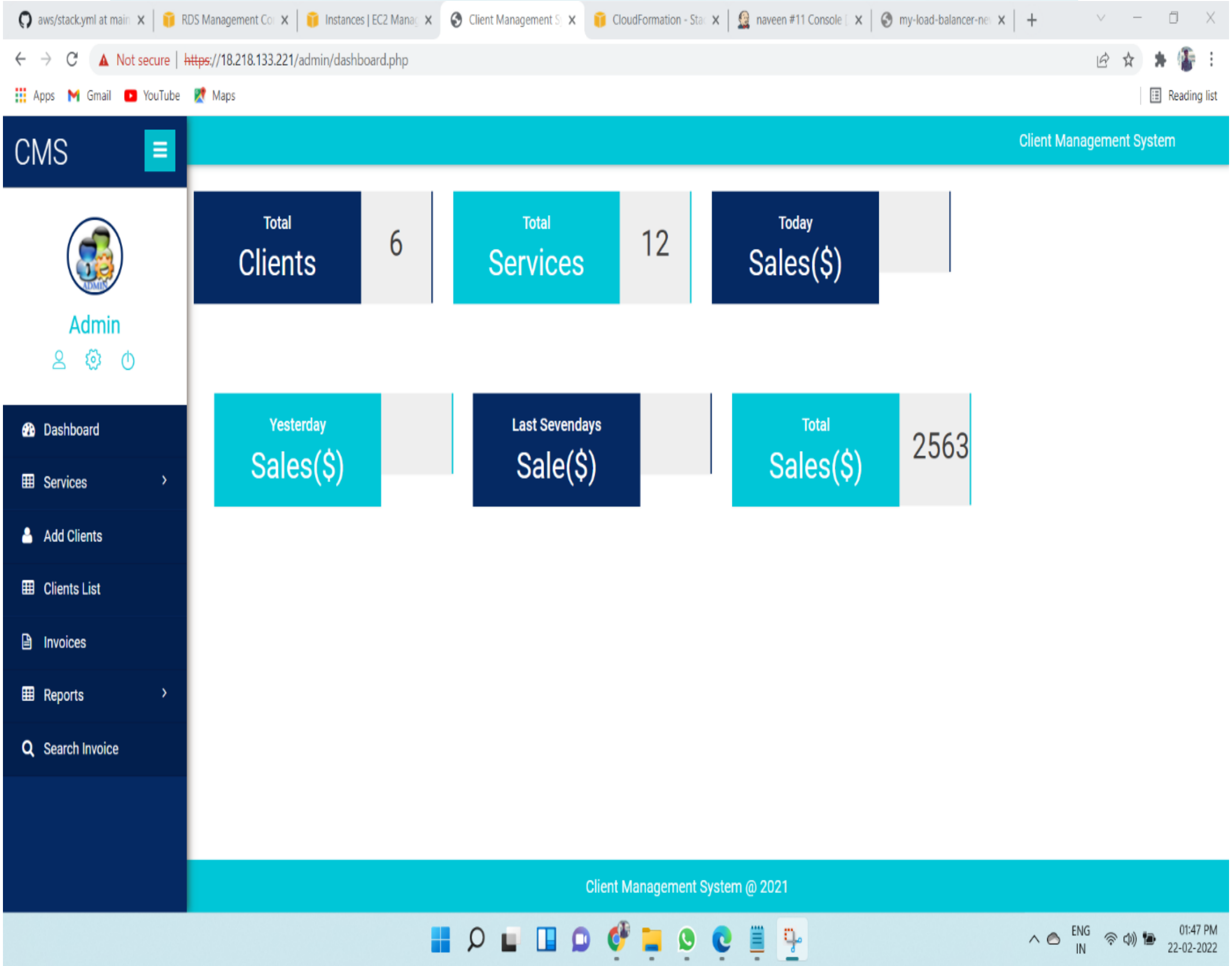
- Some project output screens:



WELCOME TO!!

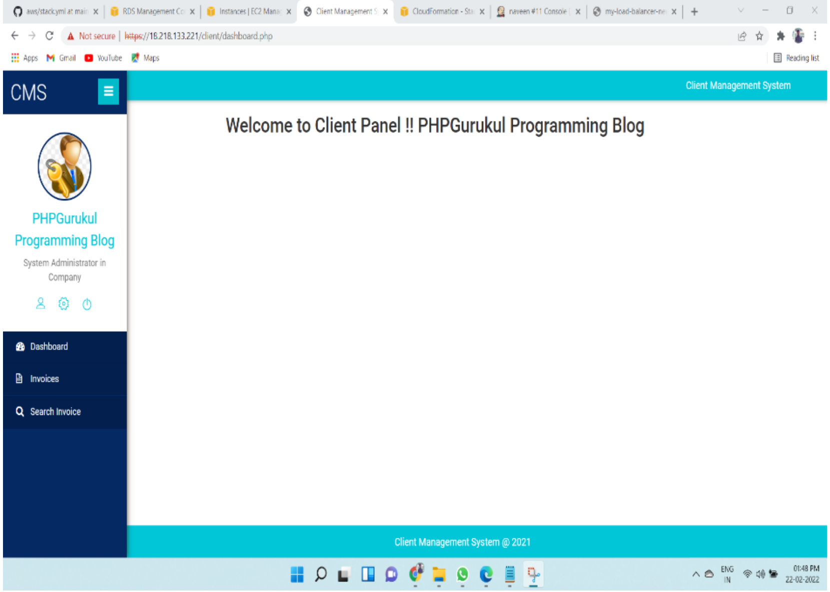
Client Management System

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae

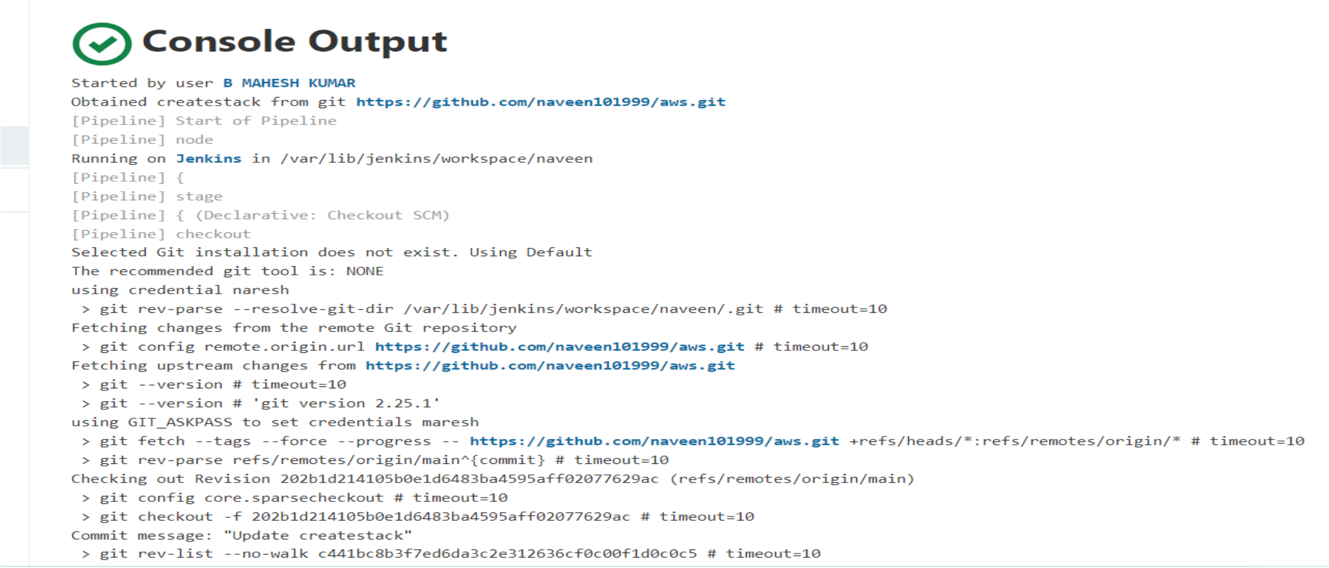


Total Clients	6
Total Services	12
Today Sales($)	
Yesterday Sales($)	
Last Sevendays Sale($)	
Total Sales($)	2563

Client Management System @ 2021

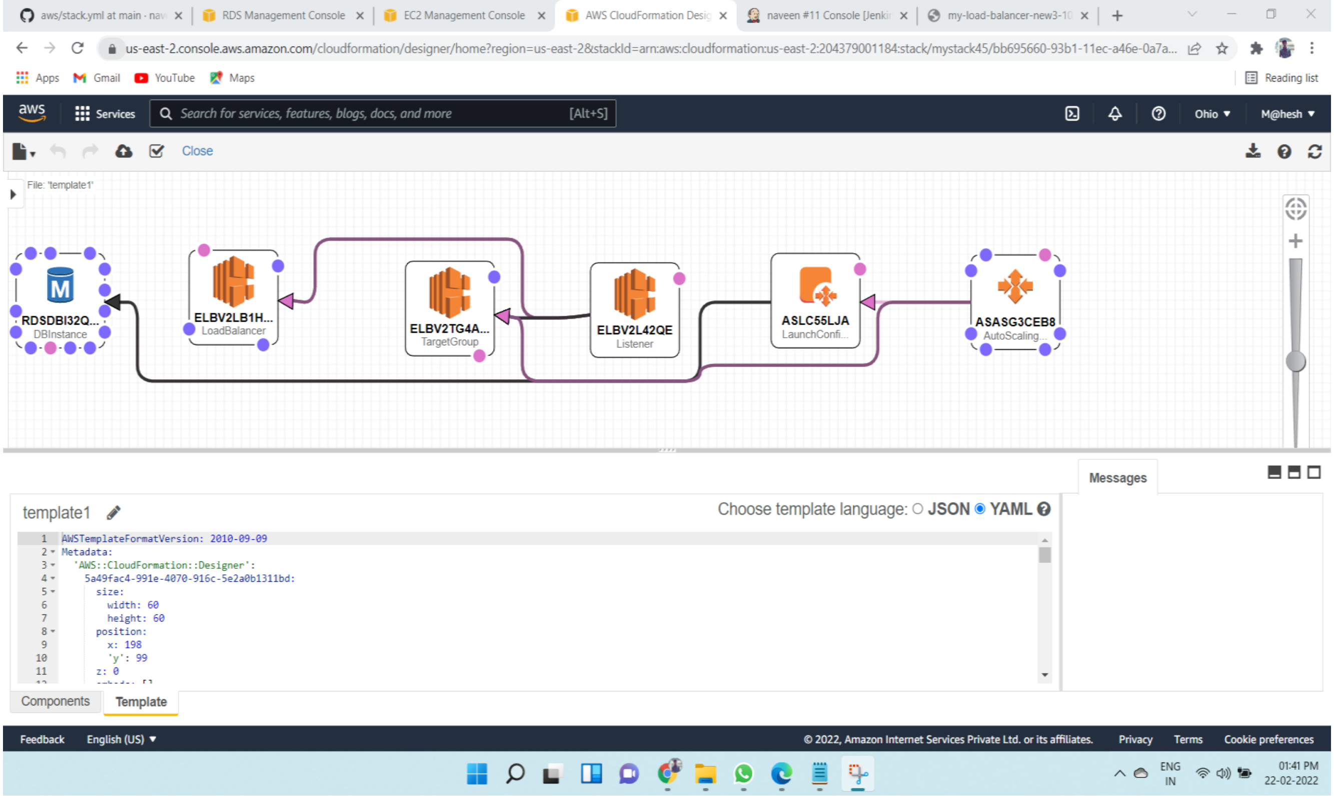

Not secure | https://18.218.133.221/client/dashboard.php
CMS
Client Management System
PHPGurukul Programming Blog
System Administrator in Company
Dashboard
Invoices
Search Invoice
Client Management System @ 2021
01:48 PM
22-02-2022

Welcome to Client Panel !! PHPGurukul Programming Blog



Console Output

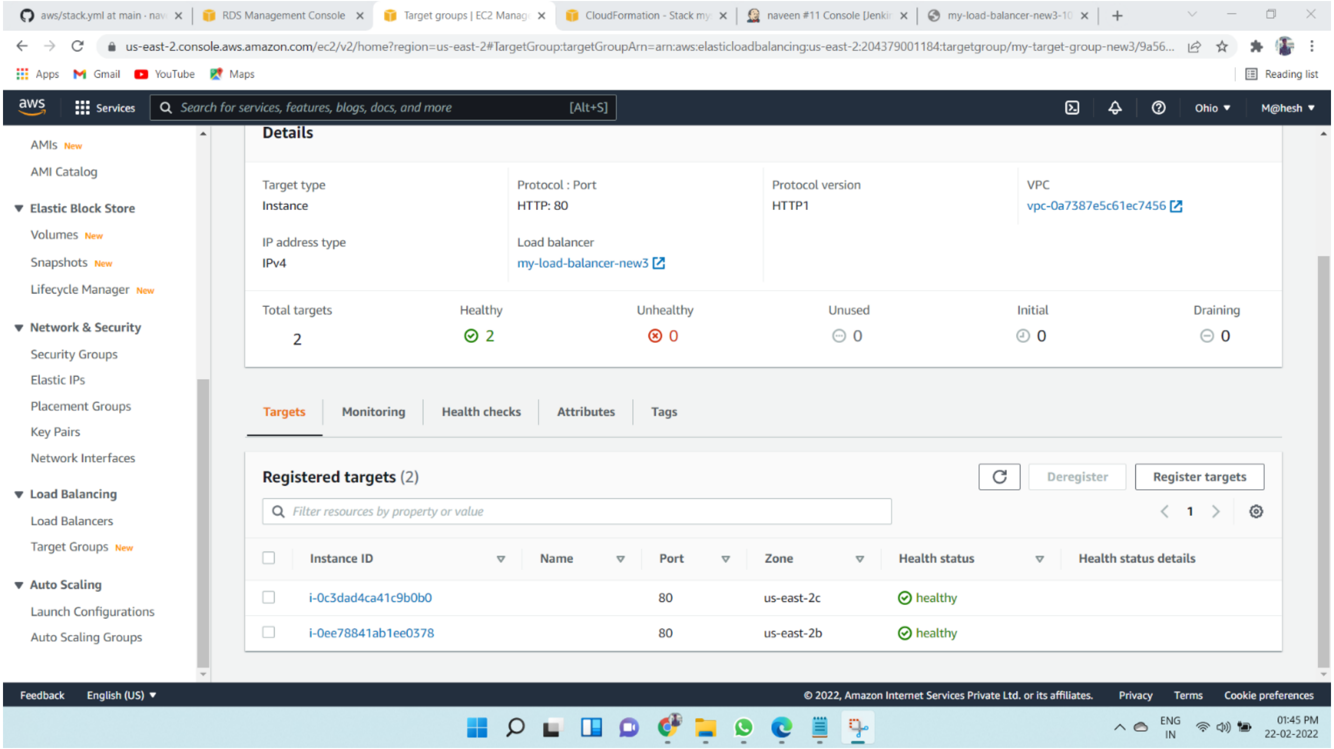
```
Started by user B MAHESH KUMAR
Obtained createstack from git https://github.com/naveen101999/aws.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/naveen
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential naresh
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/naveen/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/naveen101999/aws.git # timeout=10
Fetching upstream changes from https://github.com/naveen101999/aws.git
 > git --version # timeout=10
 > git --version # 'git version 2.25.1'
using GIT_ASKPASS to set credentials maresh
 > git fetch --tags --force --progress -- https://github.com/naveen101999/aws.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 202b1d214105b0e1d6483ba4595aff02077629ac (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 202b1d214105b0e1d6483ba4595aff02077629ac # timeout=10
Commit message: "Update createstack"
 > git rev-list --no-walk c441bc8b3f7ed6da3c2e312636cf0c00f1d0c0c5 # timeout=10
```



template1

Choose template language: ○ JSON ● YAML

```
AWSTemplateFormatVersion: 2010-09-09
Metadata:
  'AWS::CloudFormation::Designer':
    5a49fac4-991e-4070-916c-5e2a0b1311bd:
      size:
        width: 60
        height: 60
      position:
        x: 198
        'y': 99
      z: 0
```



Details

Target type: Instance

Protocol : Port: HTTP: 80

Protocol version: HTTP1

VPC: vpc-0a7387e5c61ec7456

IP address type: IPv4

Load balancer: my-load-balancer-new3

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0

Registered targets (2)

Instance ID	Name	Port	Zone	Health status	Health status details
i-0c3dad4ca41c9b0b0		80	us-east-2c	healthy	
i-0ee78841ab1ee0378		80	us-east-2b	healthy	

code formation and Process:

Using some smile attributes we design the code for the creation of RDS, Auto Scaling group, load balancer, Ec2 server Machine, cloud matrix for alarms

```
AWSTemplateFormatVersion:
2010-09-09
                             Metadata:
                               'AWS::CloudFormation::Designer':
                                 5a49fac4-991e-4070-916c-5e2a0b1311bd:
                                   size:
                                     width: 60
```

```
    height: 60
  position:
    x: 198
    'y': 99
  z: 0
  embeds: []
fef8a509-ced8-430b-81d1-a353eb3cbb59:
  size:
    width: 60
    height: 60
  position:
    x: 315
    'y': 97
  z: 0
  embeds: []
b943b41c-78a1-4c80-b3ab-ea3c57fca06f:
  size:
    width: 60
    height: 60
  position:
    x: 461
    'y': 104
  z: 0
  embeds: []
f135fd8f-ac4f-48ab-8ad3-5625d0c5d2ad:
  size:
    width: 60
    height: 60
  position:
    x: 586
    'y': 105
  z: 0
  embeds: []
  dependson:
    - fef8a509-ced8-430b-81d1-a353eb3cbb59
    - b943b41c-78a1-4c80-b3ab-ea3c57fca06f
355e45e0-9d36-49a7-8d8d-fc3b7f760b9c:
  size:
    width: 60
    height: 60
  position:
    x: 708
    'y': 99
  z: 0
  embeds: []
1453d6ad-0801-4957-a2f6-c9cc5887b06b:
  size:
    width: 60
    height: 60
  position:
        x: 843
        'y': 100
      z: 0
      embeds: []
      dependson:
        - b943b41c-78a1-4c80-b3ab-ea3c57fca06f
Resources:
  RDSDBI32QQE:
    Type: 'AWS::RDS::DBInstance'
    Properties:
      AllocatedStorage: 10
      Engine: MySQL
      MasterUsername: admin
      MasterUserPassword: Naveen1999
      DBInstanceClass: db.t2.micro
      DBName: clientmsdb
      DBInstanceIdentifier: rds31
      VPCSecurityGroups:
        - sg-03723ff32a5606bda
      EngineVersion: 5.7
      PubliclyAccessible: true
    Metadata:
      'AWS::CloudFormation::Designer':
        id: 5a49fac4-991e-4070-916c-5e2a0b1311bd
  ELBV2LB1HUDC:
    Type: 'AWS::ElasticLoadBalancingV2::LoadBalancer'
    Properties:
      Name: my-load-balancer-new3
      Subnets:
        - subnet-08f3fd927977dc180
        - subnet-02ac0c9e52da309ab
      IpAddressType: ipv4
    Metadata:
      'AWS::CloudFormation::Designer':
        id: fef8a509-ced8-430b-81d1-a353eb3cbb59
  ELBV2TG4A6L0:
    Type: 'AWS::ElasticLoadBalancingV2::TargetGroup'
    Properties:
      Name: my-target-group-new3
      Port: 80
      Protocol: HTTP
      VpcId: vpc-0a7387e5c61ec7456
    Metadata:
      'AWS::CloudFormation::Designer':
        id: b943b41c-78a1-4c80-b3ab-ea3c57fca06f
  ELBV2L42QE:
    Type: 'AWS::ElasticLoadBalancingV2::Listener'
    Properties:
      LoadBalancerArn: !Ref ELBV2LB1HUDC
      Port: 80
      Protocol: HTTP
      DefaultActions:
        - Type: forward
          TargetGroupArn: !Ref ELBV2TG4A6L0
    Metadata:
      'AWS::CloudFormation::Designer':
        id: f135fd8f-ac4f-48ab-8ad3-5625d0c5d2ad
    DependsOn:
      - ELBV2LB1HUDC
      - ELBV2TG4A6L0
  ASLC55LJA:
    Type: 'AWS::AutoScaling::LaunchConfiguration'
    Properties:
      LaunchConfigurationName: my-lc-new3
      ImageId: ami-0fb653ca2d3203ac1
      InstanceType: t2.micro
      IamInstanceProfile: role_all
      KeyName: Ec2all
      SecurityGroups:
        - sg-03723ff32a5606bda
      UserData:
        'Fn::Base64': !Sub
        - |
          #!/bin/bash
          sudo apt-get update -y
          sudo apt-get upgrade -y
          sudo wget https://www.apachefriends.org/xampp-
files/8.1.2/xampp-linux-x64-8.1.2-0-installer.run
          sudo chmod 755 xampp-linux-x64-8.1.2-0-installer.run
          sudo ./xampp-linux-x64-8.1.2-0-installer.run
          Y
          Y
          ENTER
          Y
          sudo apt install net-tools
          sudo /opt/lampp/lampp start
          sudo rm -rf /opt/lampp/htdocs/*
          sudo chmod 777 /opt/lampp/htdocs
          sudo git clone https://github.com/naveen101999/aws.git
          sudo cp -r aws/cms/clientms/* /opt/lampp/htdocs
          sudo chmod 777 /opt/lampp/htdocs/includes/dbconnection.php
          sudo sed -i.bak 's/localhost/${endpoint}/g'
/opt/lampp/htdocs/includes/dbconnection.php
          sudo sed -i.bak 's/localhost/${endpoint}/g'
/opt/lampp/htdocs/admin/includes/dbconnection.php
          sudo sed -i.bak 's/localhost/${endpoint}/g'
/opt/lampp/htdocs/client/includes/dbconnection.php
          sudo chmod 777 /opt/lampp/etc/extra/httpd-xampp.conf
          sudo sed -i.bak 's/local/all granted/g'
/opt/lampp/etc/extra/httpd-xampp.conf
```

```
          sudo chmod 755 /opt/lampp/etc/extra/httpd-xampp.conf
          sudo /opt/lampp/lampp restart
          sudo chmod 777 /opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["verbose"] = "Amazon RDS";'
>> /opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["host"] = "${endpoint}";' >>
/opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["user"] = "admin";' >>
/opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["password"] = "Naveen1999";'
>> /opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["port"] = "3306";' >>
/opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["auth_type"] = "config";' >>
/opt/lampp/phpmyadmin/config.inc.php
          sudo echo '$cfg["Servers"][$i]["AllowNoPassword"] = true;'
>> /opt/lampp/phpmyadmin/config.inc.php
          sudo chmod 400 /opt/lampp/phpmyadmin/config.inc.php
          sudo /opt/lampp/lampp restart
          sudo apt install mysql-client-core-8.0
          sudo mysql -h ${endpoint} -u admin --password=Naveen1999
clientmsdb < /aws/cms/SQL\ File/clientmsdb.sql
        - endpoint: !GetAtt RDSDBI32QQE.Endpoint.Address
    Metadata:
      'AWS::CloudFormation::Designer':
        id: 355e45e0-9d36-49a7-8d8d-fc3b7f760b9c
    DependsOn:
      - RDSDBI32QQE
  ASASG3CEB8:
    Type: 'AWS::AutoScaling::AutoScalingGroup'
    Properties:
      AutoScalingGroupName: my-asg-new3
      LaunchConfigurationName: my-lc-new3
      AvailabilityZones:
        - us-east-2b
        - us-east-2c
      DesiredCapacity: 2
      MaxSize: 3
      MinSize: 2
      TargetGroupARNs:
        - !Ref ELBV2TG4A6L0
    Metadata:
      'AWS::CloudFormation::Designer':
        id: 1453d6ad-0801-4957-a2f6-c9cc5887b06b
    DependsOn:
      - ELBV2TG4A6L0
      - ASLC55LJA
       EC2SecurityGroup:
        Type: "AWS::EC2::SecurityGroup"
        Properties:
```

```
                                            GroupDescription: "Database instances security group"
                                            VpcId: !Ref VPC
                                            SecurityGroupIngress:
                                              -
                                                CidrIp: "*.*.*.*/32"
                                                FromPort: 3306
                                                IpProtocol: "tcp"
                                                ToPort: 3306
                                            SecurityGroupEgress:
                                              -
                                                CidrIp: "0.0.0.0/0"
                                                IpProtocol: "-1"
```

creation of stack code:

```
pipeline{
              agent any
                stages{
                   stage('hosting application'){
                    steps{
                      sh "ls"
                       sh "aws cloudformation create-stack --stack-name mystack45 --template-body
            file://awscli/stack.yml --region us-east-2"
                       sh "aws ec2 create-key-pair --key-name MyKeyPair"
                    }
                   }
                  }
                }
```

REFERENCES:

- GitHub URL: **https://github.com/naveen101999/aws**
- **project base code :**
- https://phpgurukul.com/client-management-system-using-php-mysql