Build Your DB Server and Interact with Your DB Using an App

1. Go to aws console and search for VPC. In the VPC you will find lab VPC.

VPC design:

VPC Name	Lab VPC
VPC ID	vpc-0a084eeeb486f2d05
VPC OWNER	562755841146
REGION	OREGON
CIDR BLOCK RANGE (IP ADRESS RANGE)	10.0.0.0/16

2. Add security group for the database.

SECURITY GROUP:

EXISTING SECURITY GROUP:

NAME	WEB SECURITY GROUP
SEURITY GROUP ID	sg-05f554e9b56a28450
DESCRIPTION	Enable HTTP access
VPC ID	vpc-0a084eeeb486f2d05

NEW SECURITY GROUP:

NAME	DB SECURITY GROUP
SEURITY GROUP ID	sg-05d30045c51a86b22
DESCRIPTION	Permit access from Web Security Group
VPC ID	vpc-0a084eeeb486f2d05

INBOUND RULE:

TYPE	MySQL/Aurora
SOURCE	CUSTOM (WEB SECURITY GROUP)
SOURCE DETAIL	sg-05f554e9b56a28450 (Permit access from Web Security Group)
SECURITY GROUP RULE ID	sg-05d30045c51a86b22

3. Now go to RDS in search of option of AWS management.

DATABASE

SUBNET GROUP:

NAME	DB Subnet Group

Description	DB Subnet Group
VPC ID	LAB VPC
AVAILABILITY ZONES	us-west-2a us-west-2B
SUBNETS	subnet-016720b6bb45f4c02 subnet-0b5e0a135eb3602d3

DATABASES:

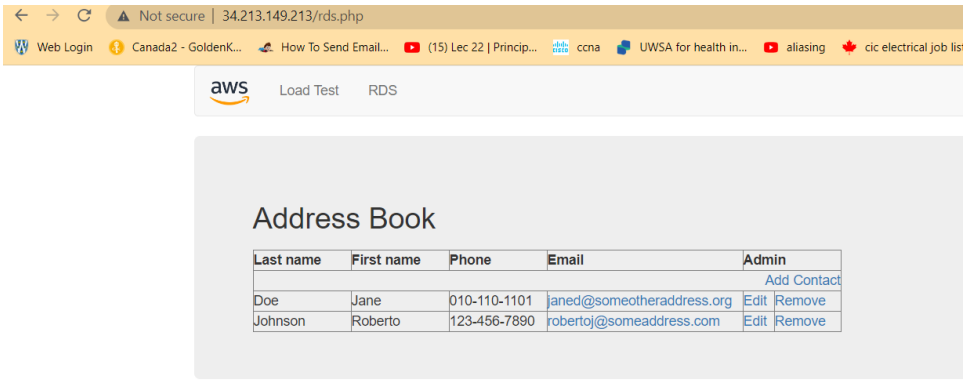
ENGINE	MySQL 8.0.32
TEMPLATE	FREE TIER
DB INSTANCE IDENTIFIER	lab-db
USERNAME	main
PASSWORD	CONFIDENTIAL
INSTANCE CLASS	Burstable classes (includes t classes)
INSTANCE TYPE/SIZE	db.t3.micro
STORAGE	General Purpose (SSD)
ALLOCATED STORAGE	20
ENABLE AUTOSCALING	NOT NEEDED
CONNECT TO AN EC2 INSTANCE	WEB SEVER 1
DB SUBNET GROUP	Choose existing
VPC SECURITY GROUP	Choose existing
Additional VPC security group	DB Security Group
Initial database name	lab
Additional configuration	Uncheck **Enable automated backups**.

4. Now Open a tab and browse the public ip from ec2 instance or aws detail.

Interact with Database:

WebServer IP address (FROM AWS DETAIL)	34.213.149.213
End point	lab-db.cow8d5gqwxu2.us-west-2.rds.amazonaws.com
DATABASE	lab
USERNAME	main
PASSWORD	CONFIDENTIAL

RDS:


Not secure | 34.213.149.213/rds.php
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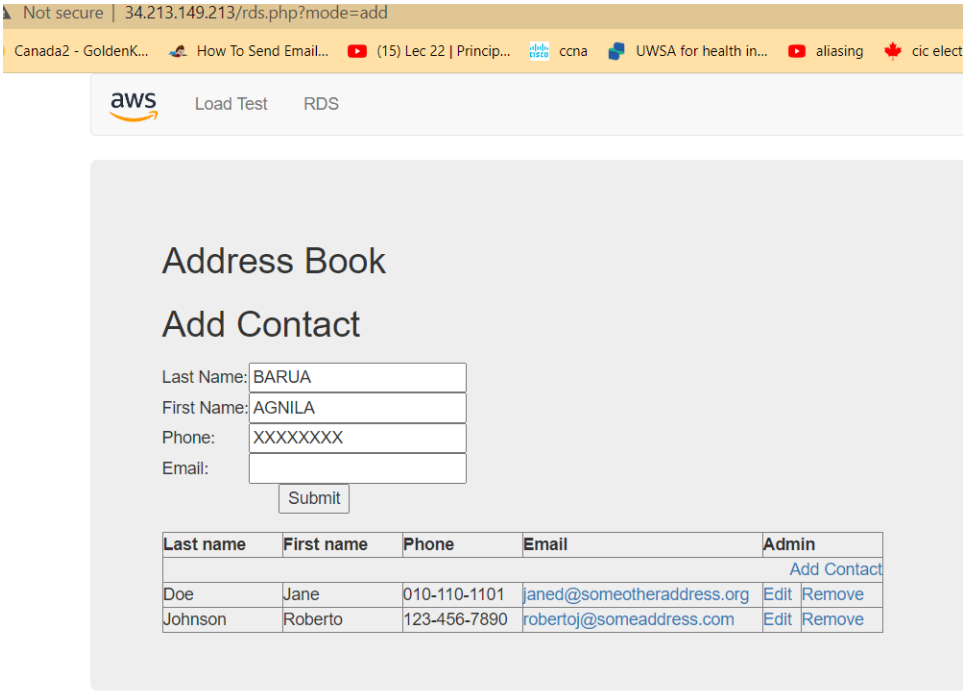
Load Test
RDS
Address Book
Last name
First name
Phone
Email
Admin
Add Contact
Doe
Jane
010-110-1101
janed@someotheraddress.org
Edit
Remove
Johnson
Roberto
123-456-7890
robertoj@someaddress.com
Edit
Remove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BARUA
First Name:
AGNILA
Phone:
XXXXXXXX
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Submit
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robertoj@someaddress.com
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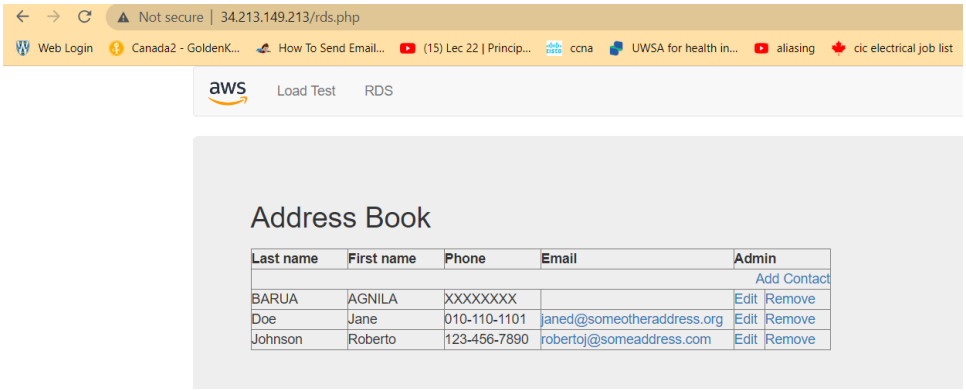
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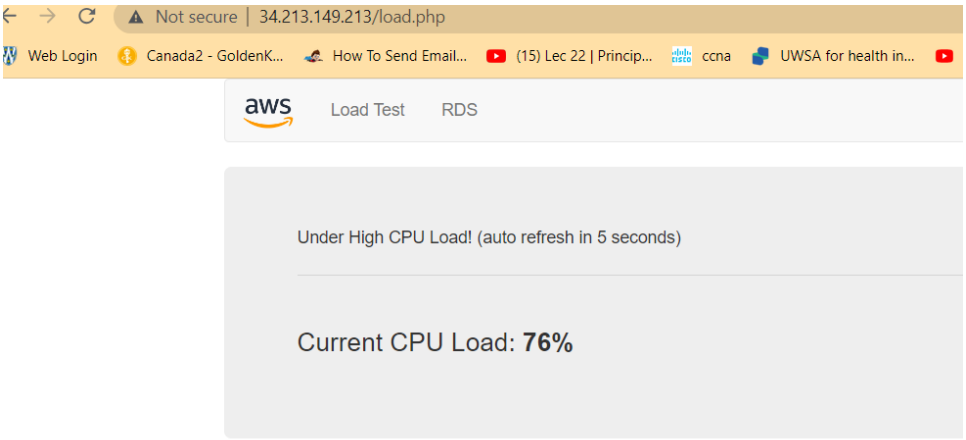
Remove

LOAD TEST: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ccna
UWSA for health in...
aws
Load Test
RDS
Under High CPU Load! (auto refresh in 5 seconds)
Current CPU Load: 76%