Ques: Complete the below task:

- 1. Explain the below AWS Architecture
- 2. Implement the same in the AWS(only do a proper connection between service)

NOTE: Submission can be done by sharing the proper screenshots of implementation and doc for explanation!

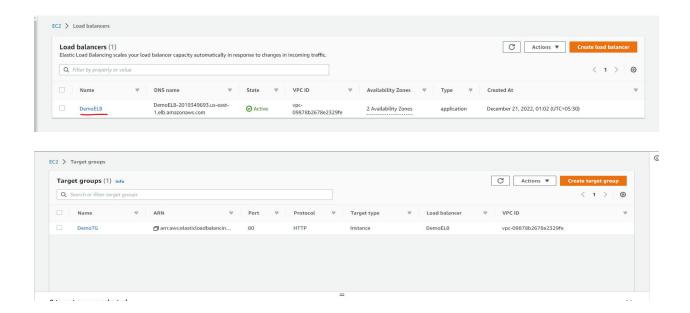


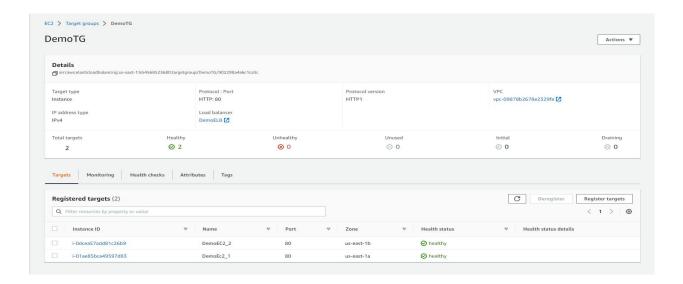
Web Service

Create ELB to route traffic to EC2 instances and Connect to AWS RDS from AWS EC2

Elastic Load Balancer-

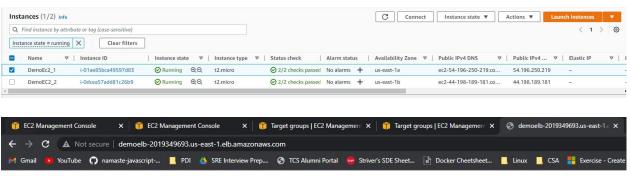
Elastic Load Balancing (ELB) automatically distributes incoming application traffic across multiple targets such as EC2 instances, containers, and IP addresses, in one or more Availability Zones.It monitors the health of its registered targets, and routes traffic only to the healthy targets.



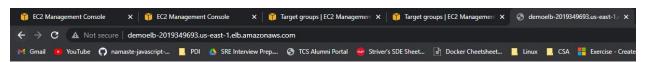


EC2 Instance-

An Amazon EC2 instance is a virtual server in Amazon's Elastic Compute Cloud (EC2) for running applications on the Amazon Web Services (AWS) infrastructure. It also allows the user to configure their instances as per their requirements i.e. allocate the RAM, ROM, and storage according to the need of the current task.EC2 offers security, reliability, high-performance and cost-effective infrastructure so as to meet the demanding business needs.



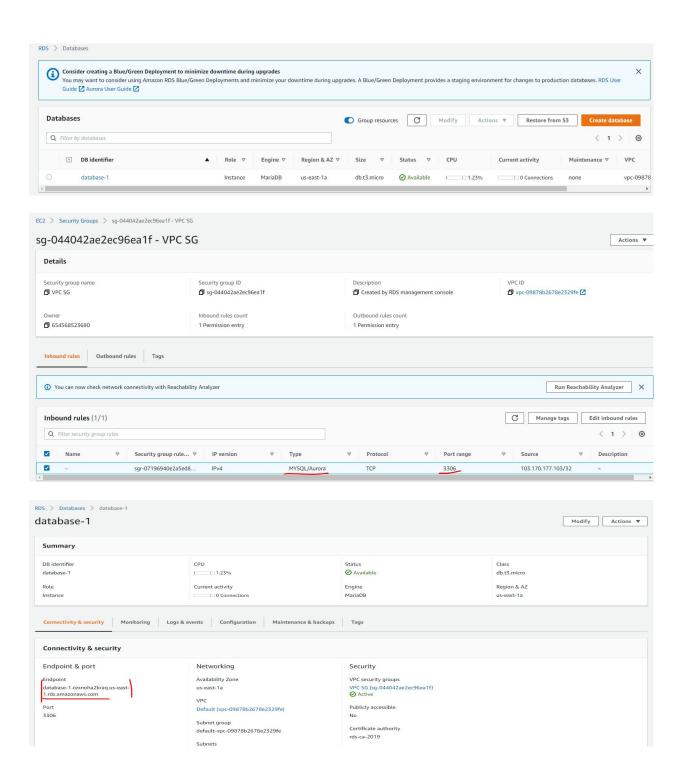
Hello World from ip-172-31-45-63.ec2.internal



Hello World from ip-172-31-4-139.ec2.internal

RDS Database-

Amazon Relational Database Service (RDS) is a managed SQL database service provided by Amazon Web Services (AWS).It's a managed DB service for DB use SQL as a query language. RDS is a managed service provide automated provisioning, OS patching, continuous backup and restore to specific time stamp. Its increase read performance by implementing read replicas. Perform disaster recovery using Multi-AZ setup.



```
ttps://aws.amazon.com/amazon-linux-2/
ec2-user@ip-172-31-45-63 ~]$ sudo su -
root@ip-172-31-45-63 ~]$ yum -y install mariadb-server
root@ip-172-31-45-63 ~]$ yum -y install mariadb-server
roaded plugins: extras_suggestions, langpacks, priorities, update-motd
                       ded plugins: extras_suggestions, langpacks, priorities, update-motd
n2-core
elving Dependencies
Running transaction check
Package mariadb-server.x86_64 1:5.5.68-1.amzn2 will be installed
Processing Dependency: mariadb(x86-64) = 1:5.5.68-1.amzn2 for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Processing Dependency: perl-DBI for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Processing Dependency: perl-DBD-MySQL for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Processing Dependency: perl-DBD-MySQL for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Processing Dependency: perl(Data:Dumper) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Processing Dependency: perl(Data:Dumper) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
Running transaction check
Package perl-DBD-MySQL x86 64 0:4.023-6.amzn2 will be installed
Processing Dependency: perl(RFC::PlServer) >= 0.2001 for package: perl-DBI-1.627-4.amzn2.0.2.x86_64
Processing Dependency: perl(Compress::Raw:all) for package: perl-PIRPC-0.2020-14.amzn2.noarch
Processing Dependency: perl(Compress::Raw:slip) for package: perl-PIRPC-0.2020-14.amzn2.noarch
Processing Dependency: perl(Compress::Raw::Ribip2) >= 2.061 for package: perl-PIRPC-0.2020-14.amzn2.noarch
Processing Dependency: perl(Compress::Raw::Ribip2) >= 2.061 for package: perl-O-Compress-2.061-2.amzn2.noarch
Processing Dependency: perl(Compress::Raw::Ribip2) >= 2.061 for package: perl-O-Compress-2.061-2.amzn2.noarch
Processing Dependency: perl(Compress::Raw::Ribip2) >= 2.061 for package: perl-O-Compress-2.06
```

pendencies Resolved

```
pendency Installed:
mariadb.x86 64 1.5.5.68-1.amzn2
perl-DBI.x86 64 0:1.627-4.amzn2.0.2
perl-PIRPC.noarch 0:0.2020-14.amzn2
                                                                                                                                                                                                                                                                                                                                              perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.amzn2.0.2 perl-Compress-Raw-Zlib.x86_64 1:2.061-4.amzn2.0.2 perl-Data-Dumper.x86_64 0:2.145-3.amzn2.0.2 perl-IO-Compress.noarch 0:2.061-2.amzn2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        perl-DBD-MySQL.x86_64 0:4.023-6.amzn2
perl-Net-Daemon.noarch 0:0.48-5.amzn2
          plete!
odBip-172-31-45-63 -]# systemctl enable mariadb
ated symplink from /etc/systems/systems/mariadb.service to /usr/lib/systems/systems/mariadb.service.
odBip-172-31-45-63 -]# systemctl start mariadb
odBip-172-31-45-63 -]# systemctl of the data from the common systems of the common
```