

TECHNOLOGY



AWS Solution Architect Course-end Project

Configure and Connect a MySQL Database Instance with a Web Server and Set up the Monitoring of the Solution

Objectives

To connect a MySQL database instance using a web server and monitor the portal



Problem Statement and Motivation

Problem Statement:

In this project, you should be able to connect a MySQL database using a web server and monitor the portal using Route 53.



Problem Statement and Motivation

Real-World Scenario:

Your organization wants to deploy a new multi-tier application. The application will take live inputs from the employees, and it will be hosted on a web server running on the AWS cloud.

The development team has asked you to set up the web server and configure it to scale automatically in cases of a traffic surge, to make the application highly available. They have also asked you to take the inputs from the employees and store them securely in the database.



Industry Relevance

Skills used in the project and their usage in the industry are given below:

- **AWS console:** The AWS Management Console is a web application that includes and references several service consoles for managing AWS services.
- **EC2 Instance:** Amazon EC2 provides a large set of instance types that are customized to certain use cases.
- **Apache Web Server:** As a Web server, Apache is in charge of accepting directory (HTTP) requests from Internet users and delivering the requested data in the form of files and Web pages.



Task (Activities)



1. Create the Database in the AWS Console
2. Launch an EC2 Instance
3. Convert a Private Key to PuTTY using PuTTYgen
4. Install an Apache Web Server with PHP
5. Set File Permissions for the Apache Web Server
6. Connect your Apache Web Server to Your Database Instance
7. Monitor the Portal Using Route 53

Project Reference



- **Task 1:** To create a database in AWS console; Lesson 6 demo 4
- **Task 2:** To launch an EC2 instance; Lesson 3 demo 2
- **Task 3:** To convert a private key to PuTTY using PuTTYgen; Lesson 10 Demo1
- **Task 4:** Install an Apache Web Server with PHP;
- **Task 5:** To set file permissions for the Apache web server; Lesson 7 demo 5
- **Task 6:** To connect your Apache web server to your database instance; Lesson 7 demo 5

Project Reference



- **Task 5:** To set file permissions for the Apache web server; Lesson 7 demo 5
- **Task 6:** To connect your Apache web server to your database instance; Lesson 7 demo 5
- **Task 7:** To monitor portal using Route 53; Lesson 5 demo 14

Output Screenshot

← → ↻ ⚠ Not secure | 44.198.160.178/SamplePage.php

Sample page

NAME ADDRESS

ID	NAME	ADDRESS
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Dashboard

Hosted zones

Health checks

IP-based routing

CIDR collections

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Resolver

VPCs

Inbound endpoints

Outbound endpoints

Health check with id 1c5fa1ed-ba14-4f17-b55e-59b913112ee0 has been created successfully

Create health check

Delete health check

Edit health check

Filter by keyword

<< < 1 to 1 of 1 health check > >>

	Name	Status	Description	Alarms	ID
<input checked="" type="checkbox"/>	Samplepage	Unknown	http://abcdemployeeportal.com:80/	1 of 1 in INSUFFICIE...	1c5fa1ed-ba14-4f17-b55e-!

Info

Monitoring

Alarms

Tags

Health checkers

Latency

Click on a graph to see an expanded view. [View metrics in CloudWatch](#)

Health checks

Samplepage

Time range

Last hour

Refresh

Health check status

No data

Health checkers that report the endpoint healthy (percent)

No data

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Thank You