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Create a MySQL RDS Instance using Terraform

Level: **Fundamental**

[Amazon RDS](#) [Amazon Web Services](#) [Terraform](#)

Required Points

10

Lab Duration


00:45:00


Average Start time


Less than a minute

Start Lab →

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Lab Overview

-  Cloud Developer, Database Engineer, Cloud Administrator
-  Database, Infrastructure

Lab Details

1. This lab walks you through to creation and testing of Amazon RDS MySQL Database using terraform.

2. Duration: **45 min**

3. AWS Region: **US East (N. Virginia) us-east-1**

Introduction

What is Terraform?

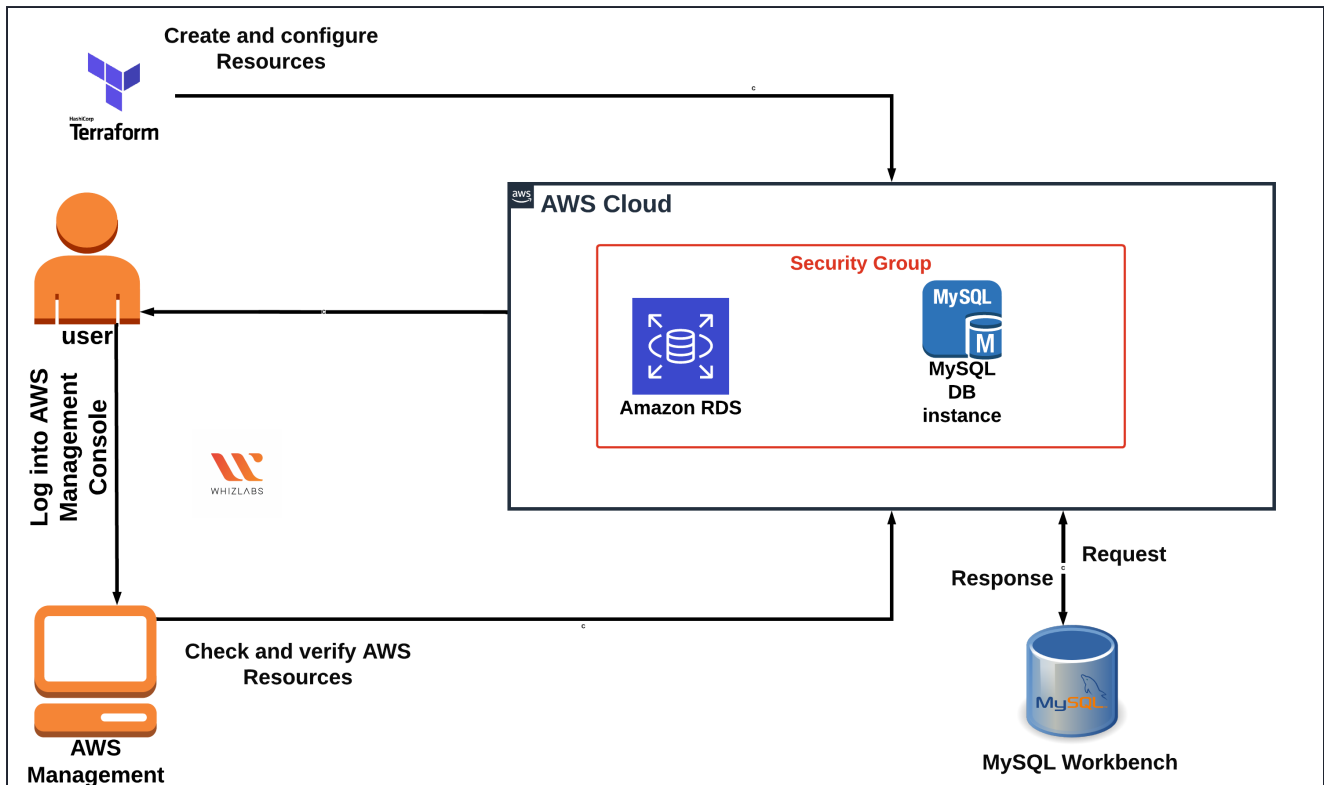
- It is an open-source IaC (Infrastructure as a code) software tool where you define and create resources using providers in the declarative configuration language example JSON.
- With Terraform, You can package and reuse the code in the form of modules.
- It supports a number of cloud infrastructure providers such as AWS, Azure, GCP, IBM Cloud, OCI, etc.
- terraform has four major commands:
 - terraform init
 - terraform plan
 - terraform apply
 - terraform destroy

Prerequisites

1. Install Terraform in your local machine using this official guide by Hashicorp.
2. To install Terraform using CLI, use this guide <https://learn.hashicorp.com/tutorials/terraform/install-cli>
3. To install Terraform by downloading, use this guide <https://www.terraform.io/downloads.html>
4. Download and Install Visual Studio code editor using this guide <https://code.visualstudio.com/download>
5. For testing this lab, it is necessary to download the MySQL GUI Tool. To download it, go to the [Download MySQL Workbench page](#). Based on your OS, select the respective option under **Generally Available (GA) Releases**. Download and Install.

Architecture Diagram





Task Details

1. Sign into AWS Management Console.
2. Setup Visual Studio Code
3. Create a variable file.
4. Create a security group for RDS Instance in main.tf file
5. Create RDS Database Instance in main.tf file
6. Create an output file
7. Confirm the installation of Terraform by checking the version.
8. Apply terraform configurations
9. Check the resources in AWS Console
10. Testing RDS Connection using the MySQL Workbench
11. Validation of the Lab
12. Delete AWS Resources

Launching Lab Environment

1. To launch the lab environment, Click on the **Start Lab** button.

2. Please wait until the cloud environment is provisioned. It will take less than a minute to provision.
3. Once the Lab is started, you will be provided with **IAM user name, Password, Access Key**, and **Secret Access Key**.

Note : You can only start one lab at any given time

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