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Build an API Gateway and integrate it to a Lambda function using Terraform

Level: **Intermediate**

[AWS Lambda](#) [Amazon Web Services](#) [Terraform](#) [Amazon API Gateway](#)

Required Points

10

Lab Duration


00:45:00


Average Start time


Less than a minute

Start Lab →

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Lab Overview

-  Cloud Architect, Cloud Administrator
-  Compute, Serverless, Infrastructure

Lab Details

1. This lab walks you through the steps to create an integration between API Gateway and Lambda function.

2. Duration: **45 minutes**

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

Introduction

What is Terraform?

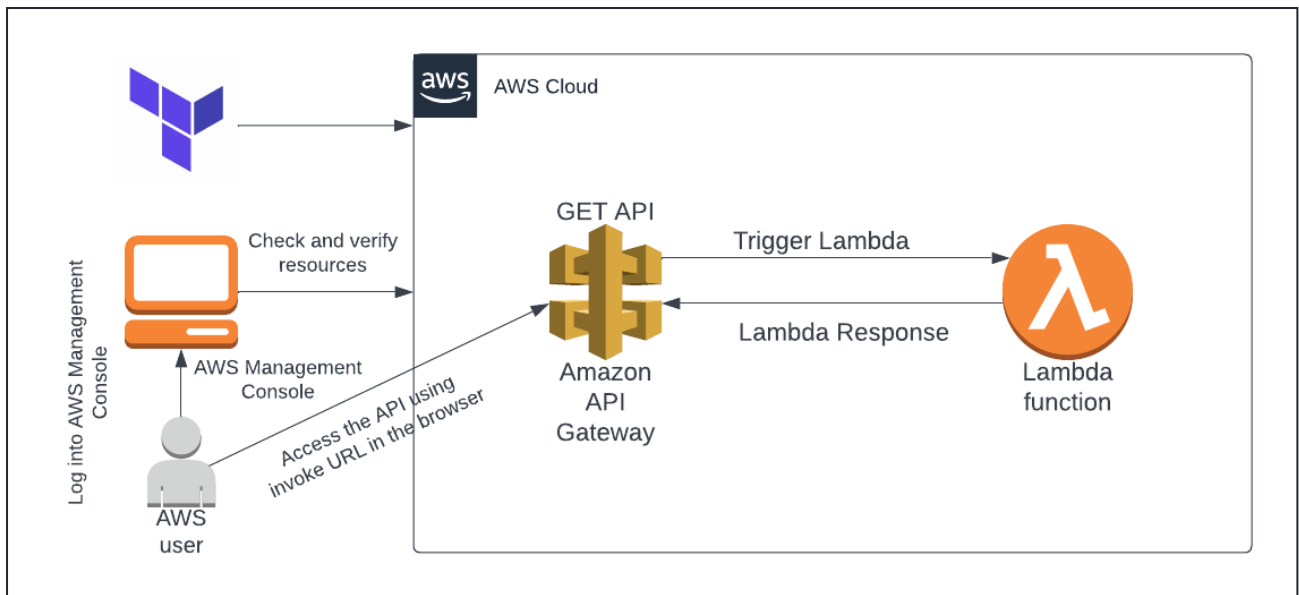
1. It is an open-source IaC (Infrastructure as a code) software tool where you define and create resources using providers in the declarative configuration language example JSON.
2. With Terraform, You can package and reuse the code in the form of modules.
3. It supports a number of cloud infrastructure providers such as AWS, Azure, GCP, IBM Cloud, OCI, etc.
4. 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>

Architecture Diagram





Task Details

1. Sign into AWS Management Console.
2. Setup Visual Studio Code
3. Create a variable file.
4. Create an IAM role for the Lambda in the main.tf file
5. Create a lambda function in main.tf file
6. Create a REST API , its method and resource in main.tf file
7. Create a gateway integration and deploy the API in the main.tf file
8. Create an output file
9. Confirm the installation of Terraform by checking the version.
10. Apply terraform configurations
11. Check the resources in AWS Console
12. Validation of the Lab
13. 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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