Create an AWS Lambda Function and deploy a sample code using Terraform

Level: **Intermediate**

Amazon S3 AWS Lambda Identity And Access Management Amazon Web Services Terraform IAM

Required Points	10
Lab Duration	01:00:00
Average Start time	Less than a minute

Start Lab →

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Lab Overview

Cloud Architect, Cloud Developer

Storage, Compute, Serverless

Lab Details

1. In this tutorial, you will be guided through the process of creating an AWS Lambda function and deploying a sample code using Terraform. The steps provided will help

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you set up the Lambda function and configure it with the desired code, allowing you to leverage the power of AWS Lambda for your application development needs.

2. AWS Region: **US East (N. Virginia) us-east-1**
3. Lab Duration: **60 minutes**

What is Terraform?

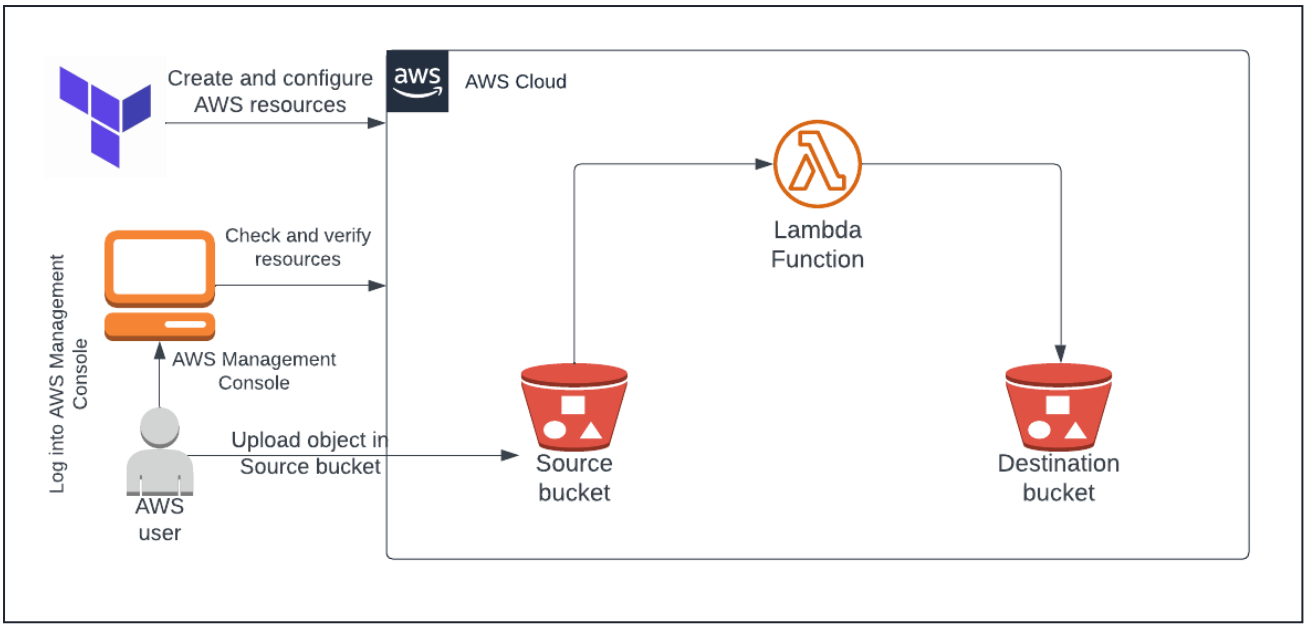
1. It is an open-source IaaC (Infrastructure as a code) software tool where you define and create resources using providers in the declarative configuration language example JSON.
2. With Terraform, You can package and reuse the code in the form of modules.
3. It supports a number of cloud infrastructure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

- terraform 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 variables file
4. Create source and destination S3 buckets in the main.tf file
5. Create an IAM role and policy for the Lambda function in the main.tf file
6. Create a lambda function in the main.tf file
7. Create a lambda trigger for S3 in 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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