WHIZLABS

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Securely access S3 images using Amazon CloudFront - Terraform

Level: **Intermediate**

Amazon S3 Amazon CloudFront Amazon Web Services Terraform

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, Cloud Network Engineer

Storage, Networking, Infrastructure

Lab Details

1. This lab walks you through the Amazon CloudFront creation and working using terraform. In this lab, you will create an Amazon CloudFront distribution. It will distribute a publicly accessible image file stored in an Amazon S3 bucket.

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

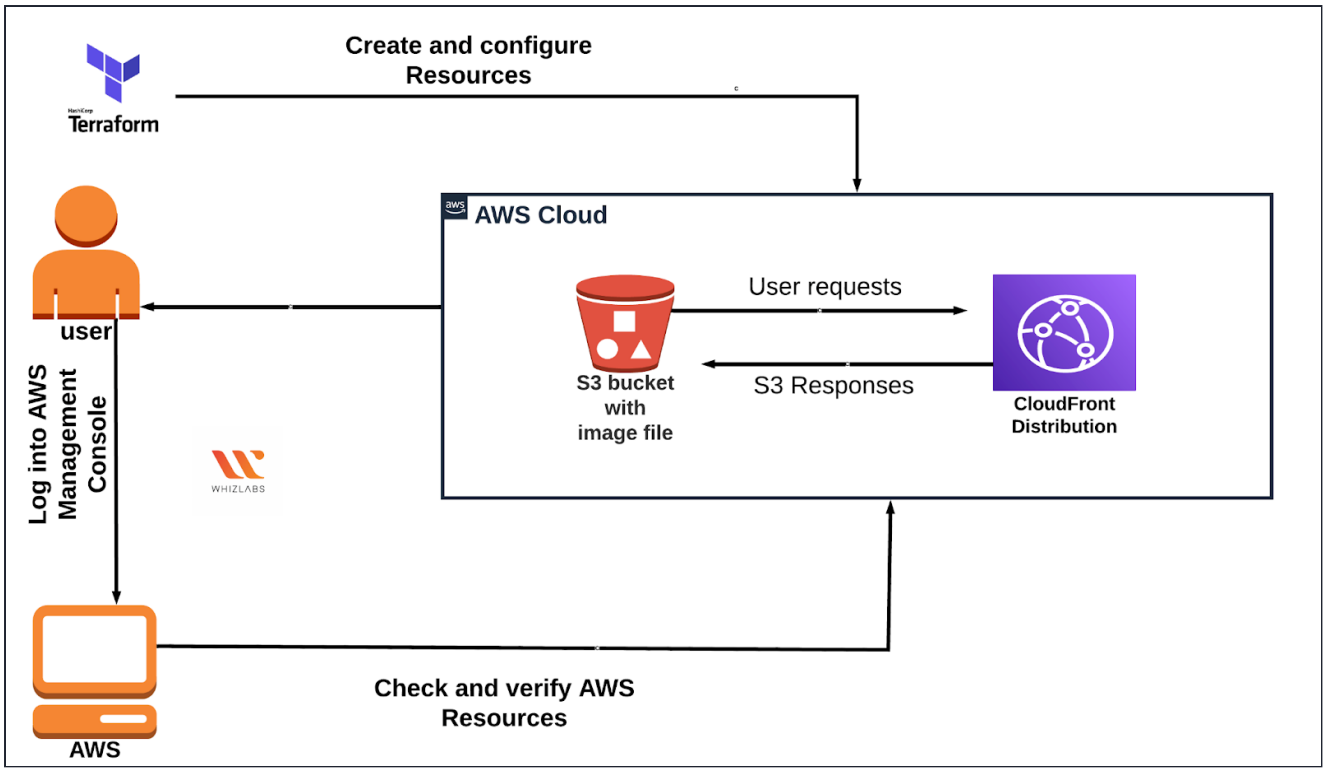
What is Terraform?

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 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 a S3 bucket in main.tf file
5. Upload an image file in s3 bucket in main.tf file
6. Create a S3 bucket policy in main.tf file
7. Create a CloudFront Distribution 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. Accessing Image through CloudFront
13. Validation of the Lab
14. 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 username**, **Password**, **Access Key**, and **Secret Access Key**.

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