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Create a SNS Topic and subscribe to Email service using Terraform

Level: **Fundamental**

[Amazon SNS](#) [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 Administrator

 Infrastructure

Lab Details

1. This lab walks you through creating an SNS Topic and subscribing to email notifications through terraform.

2. Duration: **60 Minutes**

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

Introduction

What is Terraform?

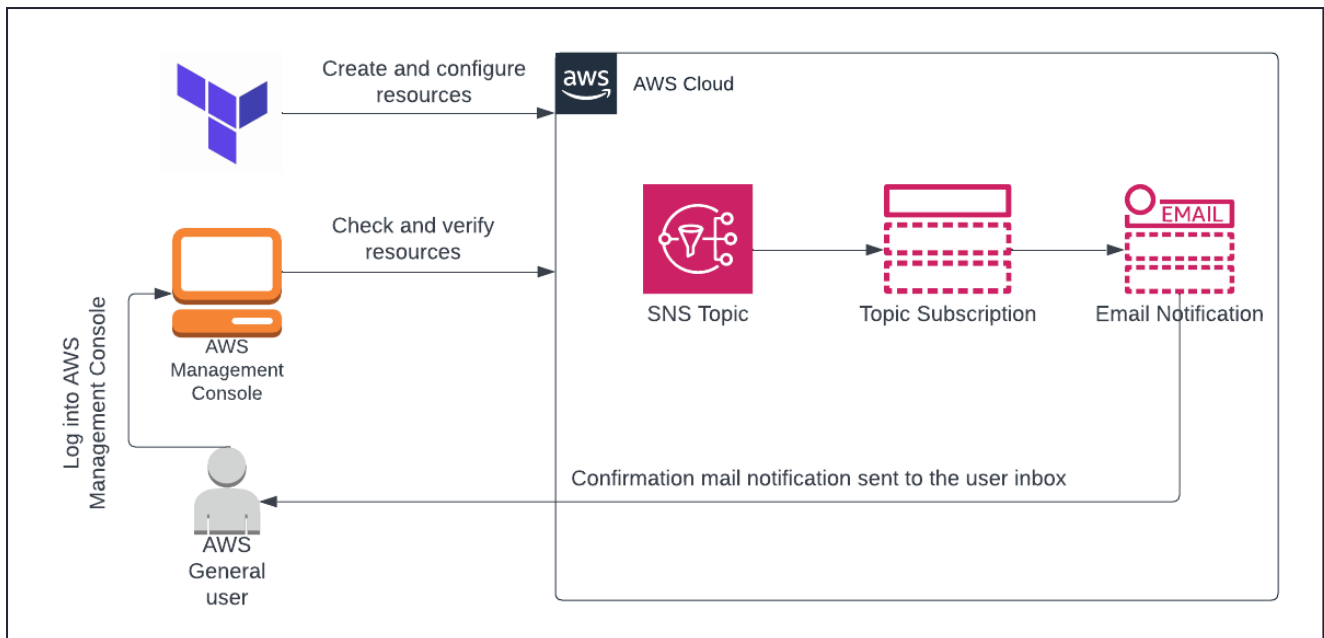
1. It is an open-source IaC (Infrastructure as a code) software tool where you define and create resources using providers in the declarative configuration language example JSON.
2. With Terraform, You can package and reuse the code in the form of modules.
3. It supports a number of cloud infrastructure providers such as AWS, Azure, GCP, IBM Cloud, OCI, etc.
4. Terraform has four major commands:
 1. terraform init
 2. terraform plan
 3. terraform apply
 4. 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 a SNS topic and its components in main.tf file.
5. Create an output file.
6. Confirm the installation of Terraform by checking the version.
7. Apply terraform configurations
8. Confirm the SNS Subscription.
9. Check the resources in AWS Console
10. Validation of the lab
11. 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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