

[Home](#) / [AWS](#) / [Guided Lab](#) / [Create an SES Email service using Terraform](#)

# Create an SES Email service using Terraform




Level: **Fundamental**

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



Required Points	 10
Lab Duration	00:30:00
Average Start time	Less than a minute

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## Lab Overview

-  Cloud Architect, Cloud Administrator
-  Business Applications, Infrastructure

# Lab Details

1. This lab walks you through creating an SES Email notification through terraform
2. Duration: **30 minutes**
3. AWS Region: **US East (N. Virginia) us-east-1**

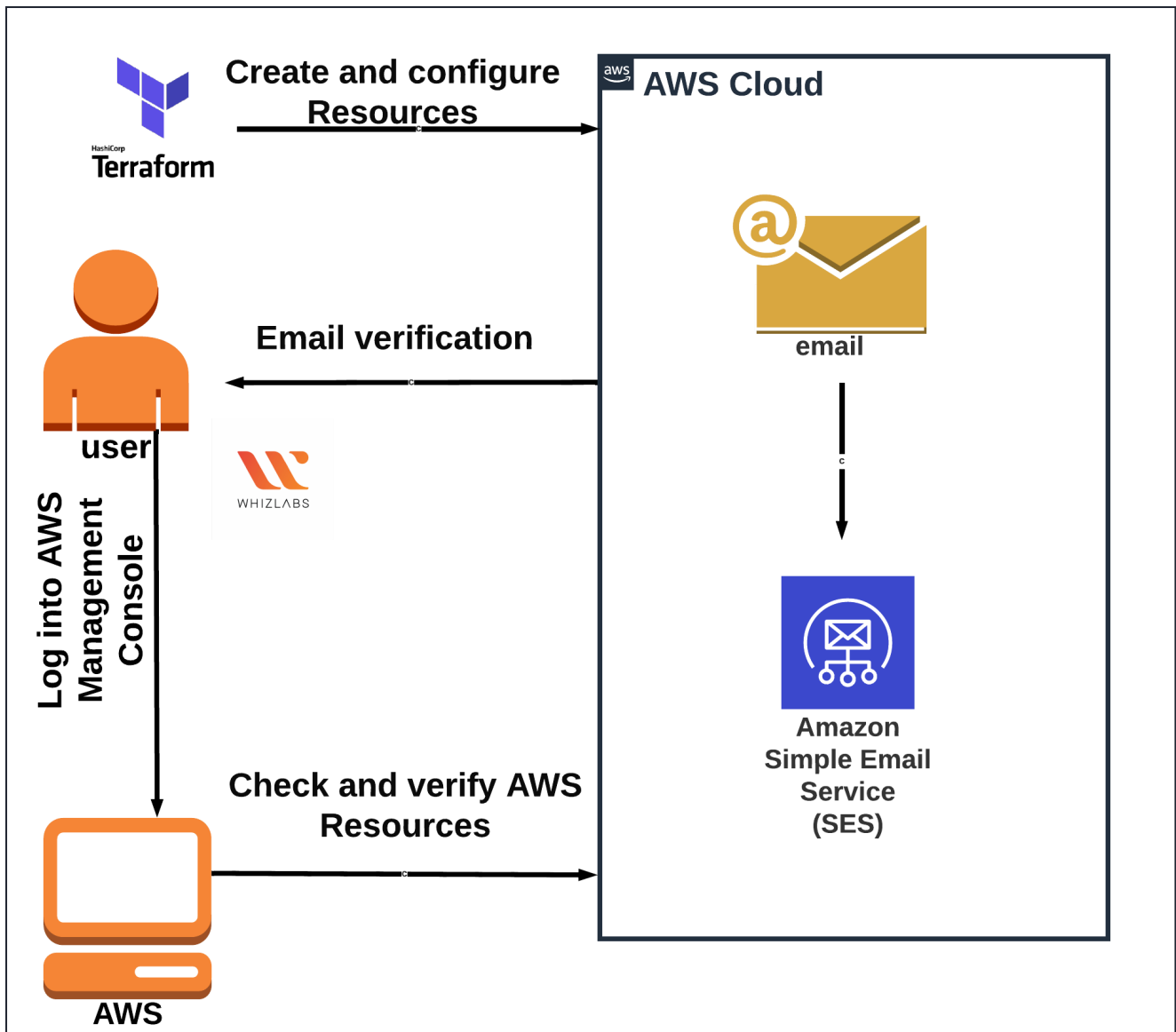
# What is Terraform?

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 a SES Identity 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 SES Identity Verification.
9. Check the resources in AWS Console
10. Send a Test Email

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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