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# How to create a SQS Queue using Terraform

Level: **Fundamental**

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

Required Points

10

Lab Duration


00:30:00


Average Start time


Less than a minute

Start Lab →

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## Lab Overview

-  Cloud Developer
-  Serverless, Infrastructure

## Lab Details

1. In this lab, you'll be taken step-by-step through the creation of an SQS Queue using Terraform.

2. Duration of the Lab: **30 minutes**
3. AWS Region: **US East (N. Virginia) us-east-1**

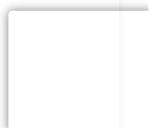
## What is Terraform?

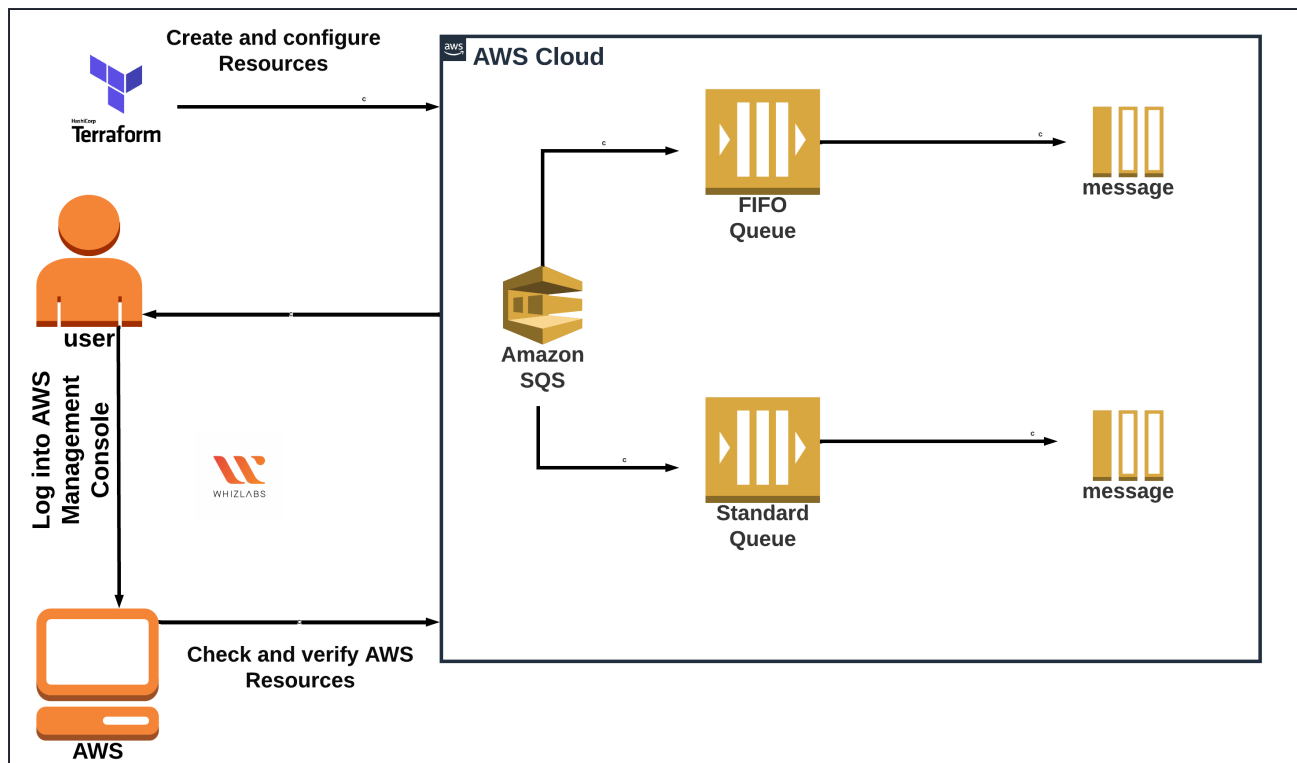
1. It is an open-source IaC (Infrastructure as a code) software tool where you define and create resources using providers in the declarative configuration language example: JSON.
2. With Terraform, You can package and reuse the code in the form of modules.
3. It supports many cloud infrastructure providers 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 on 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 in to AWS Management Console.
2. Setup Visual Studio Code
3. Create a variables file.
4. Create an SQS Queue in the main.tf file
5. Create an output file.
6. Confirm the installation of Terraform by checking the version.
7. Apply terraform configurations
8. Check the resources in the AWS Console.
9. Send and receive messages.
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 an **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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