

Create IAM Users and Groups using Terraform.

Lab Overview

Cloud Administrator

Security, Management & Governance, Infrastructure

Lab Details

This lab walks you through steps to creating IAM Users and adding them into IAM Groups using terraform.

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

Introduction:

What is Terraform?

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.

With Terraform, you can package and reuse the code in the form of modules.

It supports a number of cloud infrastructure providers such as AWS, Azure, GCP, IBM Cloud, OCI, etc.

terraform has four major commands:

terraform init

terraform plan

terraform apply

terraform destroy

Prerequisites

Install Terraform in your local machine using this official guide by Hashicorp.

To install Terraform using CLI, use this guide

<https://learn.hashicorp.com/tutorials/terraform/install-cli>

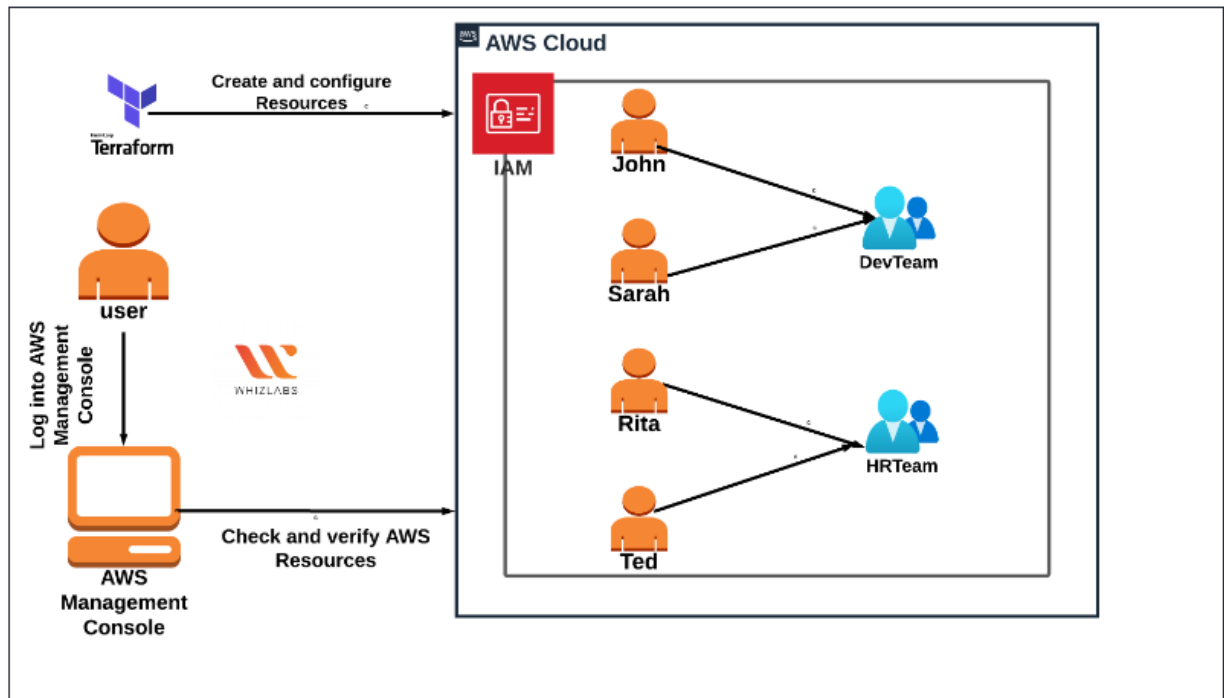
To install Terraform by downloading, use this guide

<https://www.terraform.io/downloads.html>

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 IAM users in main.tf file.
5. Create IAM group and add IAM users in main.tf file. Create an output file.
6. Confirm the installation of Terraform by checking the version.
7. Apply terraform configurations.
8. Check the resources in AWS Console
9. Validation of the Lab
10. Delete AWS Resources