Build a Custom VPC and its components using Terraform

Level: **Fundamental**

Amazon VPC Amazon Web Services Terraform

WHIZLABS 0

Average Start time Less than a minute

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- Troubleshooting Lab
- FAQs

Lab Overview

Cloud Network Engineer

Networking, Infrastructure

Lab Details

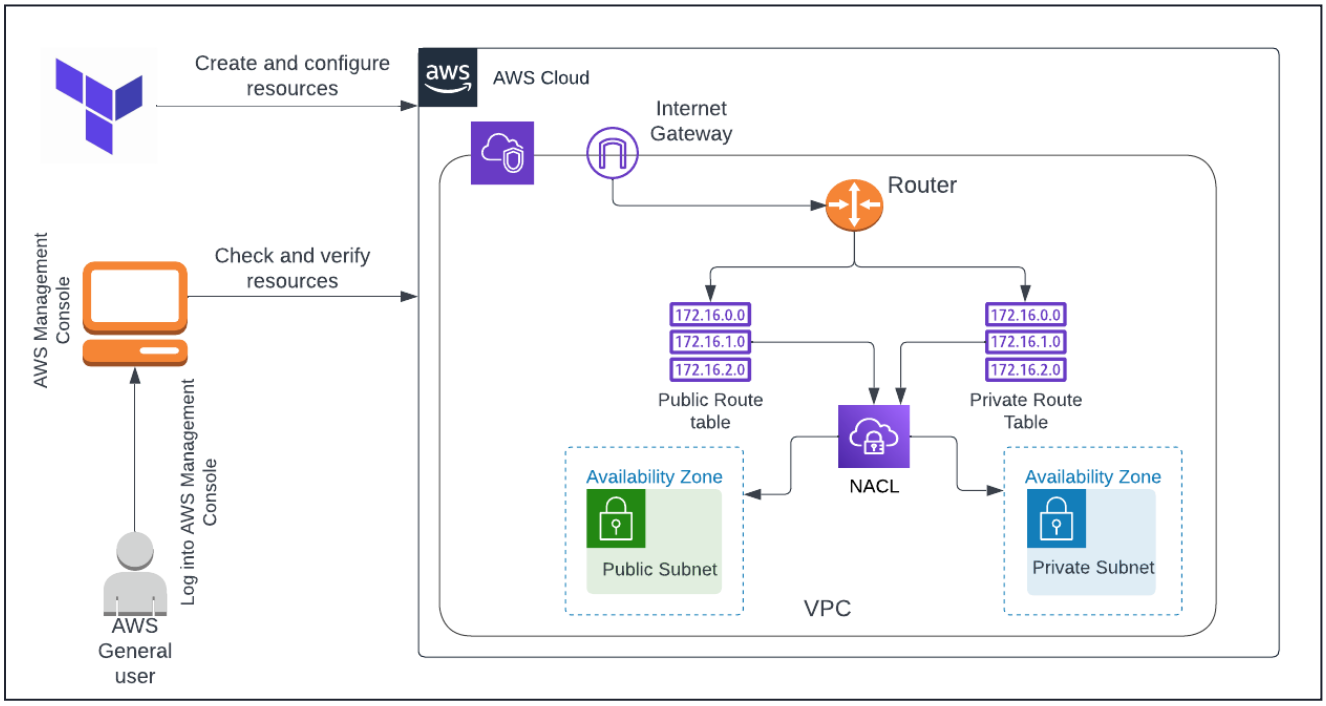
1. This lab walks you through building a custom VPC and its components using Terraform.
2. Duration: **60 minutes**
3. AWS Region: **US East (N. Virginia) us-east-1**

Introduction

What is Terraform?

- 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.
- 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

Architecture Diagram



Prerequisites

1. Install terraform in your Local Machine using the 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
4. Download and install Visual Studio Code editor using this guide https://code.visualstudio.com/download

Task Details

1. Sign into AWS Management Console
2. Setup Visual Studio Code
3. Create a variables file
4. Create a VPC in main.tf file
5. Add subnets to the VPC in the main.tf file
6. Add Internet Gateway and route tables to the main.tf file
7. Associate Route tables with the subnets.
8. Create an output file.
9. Confirm the installation of Terraform by checking the version.
10. Apply Terraform configurations
11. Check the resources in the AWS Console
12. Validation of Lab
13. Deletion of 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