

Experiment 1: Basic Terraform Project Setup

Objective:

Learn to initialize a Terraform project, configure a provider, and create a basic resource on IBM Cloud.

Steps:

1. Initialize a Terraform Project:

- Create a folder lab1-basic-setup and navigate into it.
- Inside this folder, create a file main.tf.
- Add provider and resource configurations to main.tf.

2. Set Up Provider:

```
provider "ibm" {  
  
  ibmcloud_api_key = "<your_api_key>"  
  
  region          = "us-south"  
  
}
```

3. Create a VPC:

```
resource "ibm_is_vpc" "my_vpc" {  
  
  name = "my-first-vpc"  
  
}
```

4. Run Terraform Commands:

- Initialize Terraform: terraform init
- Validate configuration: terraform validate
- Apply configuration: terraform apply

5. Verify:

- Log into IBM Cloud to confirm that the VPC is created.