Step-01: Introduction

- We will create the below Azure Resources using Terraform
- 1. Azure Resource Group
- 2. Azure Virtual Network
- 3. Azure Subnet
- 4. Azure Public IP
- 5. Azure Network Interface
- Use depends_on Resource Meta-Argument attribute when creating Azure Public IP

Step-02: c1-versions.tf - Create Terraform & Provider Blocks

- · Create Terraform Block
- · Create Provider Block
- Create Random Resource Block

```
# Terraform Block
terraform {
 required_version = ">= 1.0.0"
 required_providers {
   azurerm = {
     source = "hashicorp/azurerm"
     version = ">= 2.0"
   random = {
     source = "hashicorp/random"
      version = ">= 3.0"
   }
 }
# Provider Block
provider "azurerm" {
features {}
# Random String Resource
resource "random_string" "myrandom" {
 length = 6
 upper = false
 special = false
 number = false
```

Step-03: c2-resource-group.tf

```
# Resource-1: Azure Resource Group
resource "azurerm_resource_group" "myrg" {
  name = "myrg-1"
  location = "East US"
}
```

Step-04: c3-vritual-network.tf - Virtual Network Resource

Step-05: c3-vritual-network.tf - Azure Subnet Resource

Step-06: c3-vritual-network.tf - Azure Public IP Resource

Step-07: c3-vritual-network.tf - Network Interface Resource

Step-08: Execute Terraform commands in terraform-manifests-v1

```
# Change Directory
cd terraform-manifests-v1

# Initialize Terraform
terraform init
```

```
# Terraform Validate

# Terraform Plan
terraform plan

# Terraform Apply
terraform apply

# Observation
1. Public IP Resource will get created in parallel with Virtual Network Resource

# Terraform Destroy
terraform destroy -auto-approve

# Clean-Up
rm -rf .terraform*
rm -rf terraform.tfstate*
```

Step-09: c3-virtual-network.tf - depends_on for azurerm_public_ip

• We will review this in terraform-manifests-v2 folder

Step-10: Execute Terraform commands in terraform-manifests-v2

```
# Change Directory
cd terraform-manifests-v2

# Initialize Terraform
terraform init

# Terraform Validate
terraform validate

# Terraform Plan
terraform plan

# Terraform Apply
terraform apply

# Observation
1. Public IP Resource will get created only afer Virtual Network and Subnet Resource got created.
2. As we have defined explicit dependency 'depends_on' in Public IP Resource, it will wait till those two other resourc

# Terraform Destroy
terraform destroy -auto-approve
```

Clean-Up
rm -rf .terraform*
rm -rf terraform.tfstate*

References

- 1. Azure Resource Group
- 2. Azure Virtual Network
- 3. Azure Subnet
- 4. Azure Public IP
- 5. Azure Network Interface
- 6. Azure Virtual Machine