Module-11: Provisioning Infrastructure using Terraform Part-I

Demo Document - 5

edureka!

DEMO-5: Referencing Resources in Terraform

To demonstrate this, we will create an aws instance and reference its ami property to create another instance.

1. We can use the existing terraform configuration and make the following changes

   Syntax: vi filename.tf
2. Edit the file with the following configuration

```
terraform {
  required_providers {
    aws = {
      source  = "hashicorp/aws"
      # optional
      version = "~> 3.0"
    }
  }
}


# Configuring provider
provider "aws" {
  region = "us-east-2"
  access_key = "my-access-key"
  secret_key = "my-secret-key"
}


# instance1
resource "aws_instance" "Terraform-instance1" {
  ami          = "ami-00399ec92321828f5"
  instance_type = "t2.micro"
  tags = {
    Name = "terra-ins1"
  }
}
```

```
# Referencing instance1 ami
resource "aws_instance" "Terraform-instance2" {
  ami             = aws_instance.Terraform-instance1.ami
  instance_type = "t2.micro"
  tags = {
    Name = "terra-ins2"
  }
}
```

3. Now enter the apply command and check the list of changes the updated configuration is going to make

Syntax: terraform apply

```
Plan: 2 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

aws_instance.Terraform-instance1: Creating...
aws_instance.Terraform-instance1: Still creating... [10s elapsed]
aws_instance.Terraform-instance1: Still creating... [20s elapsed]
aws_instance.Terraform-instance1: Creation complete after 21s [id=i-0566b53d5316ca4d0]
aws_instance.Terraform-instance2: Creating...
aws_instance.Terraform-instance2: Still creating... [10s elapsed]
aws_instance.Terraform-instance2: Still creating... [20s elapsed]
aws_instance.Terraform-instance2: Creation complete after 21s [id=i-0c67d62d0aad20bfe]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
```

Changes can be verified on the aws ec2 console

Instances (5) Info   Connect   Instance state ▼   Actions ▼

Q Filter instances

	Name	▽	Instance ID	Instance state	▽	Instance type	▽	Status check
☐	terra-ins1		i-023eb001cb7387f5f	⊖ Terminated ⊕ ⊖		t2.micro		–
☐	terra-ins2		i-047ae77029d7a7c3f	⊖ Terminated ⊕ ⊖		t2.micro		–
☐	terra-ins2		i-0c67d62d0aad20bfe	⊘ Running ⊕ ⊖		t2.micro		🕓 Initializing
☐	terra-ins1		i-0566b53d5316ca4d0	⊘ Running ⊕ ⊖		t2.micro		⊘ 2/2 checks passed