# Module-11: Provisioning Infrastructure using Terraform Part-I

Demo Document - 4

# edureka!



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# **DEMO-4: Modifying Resources in Terraform**

To demonstrate this, we will create a new aws instance and change the tag name of the existing instance.

1. Modify the existing terraform configuration file using a text editor of your choice

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"
# Changing the name of the old instance
resource "aws_instance" "Terraform-instance1" {
                = "ami-00399ec92321828f5"
  ami
  instance type = "t2.micro"
  tags = {
    Name = "terra-ins1"
```

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

### Syntax: terraform apply

```
Plan: 1 to add, 1 to change, 0 to destroy.

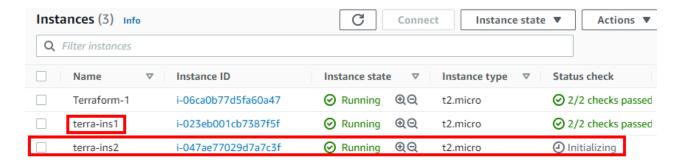
Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

aws_instance.Terraform-instance2: Creating...
aws_instance.Terraform-instance1: Modifying... [id=i-023eb001cb7387f5f]
aws_instance.Terraform-instance1: Modifications complete after 1s [id=i-023eb001cb7387f5f]
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-047ae77029d7a7c3f]
```

4. We can verify the changes made on the aws ec2 console



## Destroying your terraform infrastructure

1. To simply remove a resource, we can remove the code for it in Terraform and apply the changes. In this example we will comment out the first instance code in our configuration and apply the changes

Apply the changes

2. To destroy the entire infrastructure created by the configuration, we can use the destroy command

Syntax: terraform destroy

```
Plan: 0 to add, 0 to change, 1 to destroy.

Do you really want to destroy all resources?

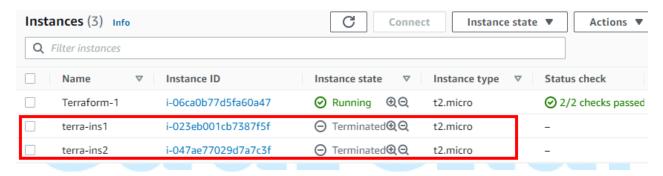
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws_instance.Terraform-instance2: Destroying... [id=i-047ae77029d7a7c3f]
aws_instance.Terraform-instance2: Still destroying... [id=i-047ae77029d7a7c3f, 10s elapsed]
aws_instance.Terraform-instance2: Still destroying... [id=i-047ae77029d7a7c3f, 20s elapsed]
aws_instance.Terraform-instance2: Still destroying... [id=i-047ae77029d7a7c3f, 30s elapsed]
aws_instance.Terraform-instance2: Destruction complete after 39s

Destroy complete! Resources: 1 destroyed.
```

3. Verification can be done on the ec2 console



4. To target a specific resource for deletion, -target flag can be used

Syntax: terraform destroy -target aws instance. Terraform-instance2