**Extra Lab Exercise-1 - Using terraform taint and untaint**

**Objective:**

Understand how to force Terraform to recreate a specific resource using terraform taint and revert that decision using terraform untaint.

**1. Prerequisites:**

* Terraform installed (terraform -v)
* AWS CLI configured (with credentials)
* A simple EC2 instance Terraform project

**2. Setup Project Directory:**

mkdir terraform-taint-lab

cd terraform-taint-lab

**3. Create Terraform Configuration (main.tf):**

provider "aws" {

region = "us-east-1"

}

resource "aws\_instance" "web" {

ami = "ami-0c55b159cbfafe1f0" # Amazon Linux 2 AMI

instance\_type = "t2.micro"

tags = {

Name = "TaintTestInstance"

}

}

**4. Initialize and Apply Terraform:**

terraform init

terraform apply -auto-approve

**5. Mark the EC2 Instance for Recreation:**

terraform taint aws\_instance.web

**Expected Output:**

Resource instance aws\_instance.web has been marked as tainted.

**6. Run Plan to See the Effect:**

terraform plan

**You'll see:**

Terraform will destroy and recreate the aws\_instance.web resource.

**7. Undo the Taint (if you change your mind):**

terraform untaint aws\_instance.web

**Output:**

Resource instance aws\_instance.web has been unmarked as tainted.

**8. Optional - Apply Again (to see effect):**

If still tainted:

terraform apply -auto-approve

**9. Clean Up:**

terraform destroy -auto-approve