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Lab Exercise 6– Terraform Multiple tfvars Files

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Objective: Learn how to use multiple tfvars files in Terraform for different environments.

Prerequisites:
• Terraform installed on your machine.
• Basic knowledge of Terraform configuration and variables.

Step 1 Create main.tf

```
provider "aws" {
region = var.region
   access_key = "AKIAUUSTJKS7TPQGW7CV"
   secret_key = "ZBhd58GUGRvRAUauqKIU+vxQz4GWCx/jLy1qE78l"
}
resource "aws_instance" "example" {
ami          = var.ami
instance_type = var.instance_type
}
```

Step 2 Create variable.tf

```
variable "region" {
  description = "AWS region"
  default     = "us-west-2"
}

variable "ami" {
  description = "AMI ID"
  default     = "ami-01e82af4e524a0aa3"
}

variable "instance_type" {
  description = "EC2 Instance Type"
  default     = "t2.micro"
}
```

Step 3

```
dev.tfvars
main.tf
prod.tfvars
```

```
region        = "us-west-2"
ami           = "ami-01e82af4e524a0aa3"
instance_type = "t2.micro"
```

Step 4

```
Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

Step 5

```
Plan: 1 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.example: Creating...
aws_instance.example: Still creating... [10s elapsed]
aws_instance.example: Still creating... [20s elapsed]
```

Step 6

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform destr
aws_instance.example: Refreshing state... [id=i-04610e52c6cedab3e]

No changes. No objects need to be destroyed.

Either you have not created any objects yet or the existing objects were already dele
Terraform.

Destroy complete! Resources: 0 destroyed.
```