

# SPCM LAB-6

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

- Create multiple tfvar files
- Create a dev.tfvar file

```
instance.tf  variable.tf  dev.tfvars ×  ▶  □  ..
dev.tfvars > ...
1  ubuntu_ami    = "ami-03f4878755434977f"
2  countNumber   = 2
3  instance_type = "t3.micro"
4
```

- Create a prod.tfvar file

```
prod.tfvars ●  ▶  □  ...
prod.tfvars > # countNumber
1  ubuntu_ami    = "ami-03f4878755434977f"
2  countNumber   = 1
3  instance_type = "t2.micro"
4
```

- Run the terraform apply -var-file=dev.tfvars commands to initialize and apply the configuration for the dev environment:

```
● gauravbhandari@gauravs-Air-2 aws-terraform-demo % terraform apply -var-file=dev.tfvars

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.UPES1[0] will be created
+ resource "aws_instance" "UPES1" {
+   ami           = "ami-03f4878755434977f"
```

```
Only 'yes' will be accepted to approve.

Enter a value: yes

aws_instance.UPES1[0]: Creating...
aws_instance.UPES1[1]: Creating...
aws_instance.UPES1[0]: Still creating... [10s elapsed]
aws_instance.UPES1[1]: Still creating... [10s elapsed]
aws_instance.UPES1[1]: Creation complete after 12s [id=i-04fed2da1d1561dc0]
aws_instance.UPES1[0]: Creation complete after 12s [id=i-03d35a2e431a382b2]

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

Instances (2) Info								
Find Instance by attribute or tag (case-sensitive)				Any state				
Instance state = running X				Clear filters				
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	My-ec2	i-04fed2da1d1561dc0	Running	t3.micro	Initializing	View alarms +	ap-south-1a	ec2-
<input type="checkbox"/>	My-ec2	i-03d35a2e431a382b2	Running	t3.micro	Initializing	View alarms +	ap-south-1a	ec2-

- Run the following Terraform commands to initialize and apply the configuration for the prod environment:

```

gauravbhandari@gauravs-Air-2 aws-terraform-demo % terraform apply -var-file=prod.tfvars
aws_instance.UPEs1[0]: Refreshing state... [id=i-03d35a2e431a382b2]
aws_instance.UPEs1[1]: Refreshing state... [id=i-04fed2da1d1561dc0]

Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
  ~ update in-place
  - destroy

Terraform will perform the following actions:

Plan: 1 to add, 0 to change, 0 to destroy.
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 50s elapsed]
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 1m0s elapsed]
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 1m10s elapsed]
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 1m20s elapsed]
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 1m30s elapsed]
aws_instance.UPEs1[0]: Still modifying... [id=i-03d35a2e431a382b2, 1m40s elapsed]
aws_instance.UPEs1[0]: Modifications complete after 1m42s [id=i-03d35a2e431a382b2]

Apply complete! Resources: 0 added, 1 changed, 1 destroyed.

```

Instances (1) Info								
Find Instance by attribute or tag (case-sensitive)				Any state				
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	My-ec2	i-04fed2da1d1561dc0	Terminated	t3.micro	-	View alarms +	ap-south-1a	-
<input type="checkbox"/>	My-ec2	i-03d35a2e431a382b2	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-

- After successful experimentation clean up the environment using terraform destroy -var-file=prod.tfvars

```

gauravbhandari@gauravs-Air-2 aws-terraform-demo % terraform destroy -var-file=prod.tfvars --auto-approve
aws_instance.UPEs1[0]: Refreshing state... [id=i-03d35a2e431a382b2]

Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
  - destroy

Terraform will perform the following actions:

# aws_instance.UPEs1[0] will be destroyed
- resource "aws_instance" "UPEs1" {
  ami           = "ami-03f4876755434077f"
  instance_type = "t2.micro"
}

```

```

Plan: 0 to add, 0 to change, 1 to destroy.
aws_instance.UPEs1[0]: Destroying... [id=i-03d35a2e431a382b2]
aws_instance.UPEs1[0]: Still destroying... [id=i-03d35a2e431a382b2, 10s elapsed]
aws_instance.UPEs1[0]: Still destroying... [id=i-03d35a2e431a382b2, 20s elapsed]
aws_instance.UPEs1[0]: Still destroying... [id=i-03d35a2e431a382b2, 30s elapsed]
aws_instance.UPEs1[0]: Destruction complete after 30s

Destroy complete! Resources: 1 destroyed.

```

Instances (2) Info								
Find Instance by attribute or tag (case-sensitive)				Any state				
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	My-ec2	i-04fed2da1d1561dc0	Terminated	t3.micro	-	View alarms +	ap-south-1a	-
<input type="checkbox"/>	My-ec2	i-03d35a2e431a382b2	Shutting-d...	t2.micro	-	View alarms +	ap-south-1a	ec2-