

# LAB - Meta Arguments in Terraform

## 2.1 Managing Dependencies with `depends_on`

```
vijayagaglia@DESKTOP-FP40P26:~/terra_course/meta-argument$ terraform apply -auto-approve
aws_s3_bucket.data_bucket_vijaya: Refreshing state... [id=my-data-bucket-vijaya]
```

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:

```
Plan: 1 to add, 0 to change, 0 to destroy.
aws_instance.app_server_dependson_vijaya: Creating...
aws_instance.app_server_dependson_vijaya: Still creating... [00m09s elapsed]
aws_instance.app_server_dependson_vijaya: Still creating... [00m18s elapsed]
aws_instance.app_server_dependson_vijaya: Creation complete after 20s [id=i-0399c6c489c7d9597]
```

```
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
vijayagaglia@DESKTOP-FP40P26:~/terra_course/meta-argument$
```

## 2.2 Creating Multiple Instances Using `count`

```
aws_instance.web[0]: Creating...
aws_instance.web[2]: Creating...
aws_instance.web[1]: Creating...
aws_instance.web[1]: Still creating... [00m09s elapsed]
aws_instance.web[2]: Still creating... [00m09s elapsed]
aws_instance.web[0]: Still creating... [00m09s elapsed]
aws_instance.web[0]: Still creating... [00m18s elapsed]
aws_instance.web[1]: Still creating... [00m18s elapsed]
aws_instance.web[2]: Still creating... [00m18s elapsed]
aws_instance.web[0]: Creation complete after 20s [id=i-0f21d5ea7a1e8a417]
aws_instance.web[2]: Creation complete after 20s [id=i-0599a98cd51ff4baf]
aws_instance.web[1]: Creation complete after 20s [id=i-03ee007cfadb86d35]
```

```
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
```

## 2.3 Using `for_each` for Dynamic Resource Creation

```
Plan: 2 to add, 0 to change, 0 to destroy.
aws_instance.servers_foreach_vijaya["app1"]: Creating...
aws_instance.servers_foreach_vijaya["app2"]: Creating...
aws_instance.servers_foreach_vijaya["app2"]: Still creating... [00m09s elapsed]
aws_instance.servers_foreach_vijaya["app1"]: Still creating... [00m09s elapsed]
aws_instance.servers_foreach_vijaya["app2"]: Still creating... [00m18s elapsed]
aws_instance.servers_foreach_vijaya["app1"]: Still creating... [00m18s elapsed]
aws_instance.servers_foreach_vijaya["app2"]: Creation complete after 20s [id=i-0781489b1cf2aab81]
aws_instance.servers_foreach_vijaya["app1"]: Creation complete after 20s [id=i-0c135d33b7a4e7915]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
vijayagagla@DESKTOP-FP40P26:~/terra_course/meta-argument$
```

## 2.4 Controlling Resource Lifecycle with `lifecycle`

```
Plan: 1 to add, 0 to change, 0 to destroy.
aws_s3_bucket.data-prevent-destroy-vijaya: Creating...
aws_s3_bucket.data-prevent-destroy-vijaya: Creation complete after 1s [id=my-data-bucket-prevent-destroy-vijaya]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
vijayagagla@DESKTOP-FP40P26:~/terra_course/meta-argument$
```

## 2.5 Specifying a Provider with `provider`

```
aws_instance.euw_server_vijaya: Creating...
aws_instance.euc_server_vijaya: Creating...
aws_instance.euw_server_vijaya: Still creating... [00m09s elapsed]
aws_instance.euc_server_vijaya: Still creating... [00m09s elapsed]
aws_instance.euw_server_vijaya: Creation complete after 13s [id=i-07d5ebebe24daee99]
aws_instance.euc_server_vijaya: Still creating... [00m19s elapsed]
aws_instance.euc_server_vijaya: Still creating... [00m28s elapsed]
aws_instance.euc_server_vijaya: Creation complete after 30s [id=i-032b3c155311fa594]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
vijayagagla@DESKTOP-FP40P26:~/terra_course/meta-argument$
```

## 2.6 Running Post-Creation Tasks with `provisioner` and Establishing Remote Connections with `connection`

```
vijayagagla@DESKTOP-FP40P26:~/terra_course/meta-argument$ terraform state list  
aws_instance.web_ssh_vijaya
```

Note : For some reason failed to connect to the machine using SSH though I used both Ubuntu and AMI O/S.