

Creating multiple resources in terraform

vi ec2.tf

Lets suppose I have created both the resources with same name

```
File Edit View Search Terminal Help
provider "aws" {
  region      = "us-east-1" #by default the resources would be created in north virginia of aws account
  access_key  = "AKIAU6GUCH53PA5GSBE4"
  secret_key  = "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"
}

resource "aws_instance" "web" {
  ami          = "ami-053b0d53c279acc90"
  instance_type = "t3.micro"
  tags = {
    Name = "AkshatMachine"
  }
}

resource "aws_instance" "web" {
  ami          = "ami-053b0d53c279acc90"
  instance_type = "t3.micro"
  tags = {
    Name = "AnotherMachine"
  }
}

~
```

In above case both the resources are created with the name web

```
akshu20791gmail@ip-172-31-83-7:~/akshatdir$ terraform plan
Error: Duplicate resource "aws_instance" configuration

on ec2.tf line 15:
15: resource "aws_instance" "web" {

A aws_instance resource named "web" was already declared at ec2.tf:7,1-30. Resource names must be unique per type in each module.
akshu20791gmail@ip-172-31-83-7:~/akshatdir$
```

You will get an error...which means two resources cannot have the same name

So lets again go back to the machine

vi ec2.tf

```

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  ami          = "ami-053b0d53c279acc90"
  instance_type = "t3.micro"
  tags = {
    Name = "AkshatMachine"
  }
}

resource "aws_instance" "web-secondresource" {
  ami          = "ami-053b0d53c279acc90"
  instance_type = "t3.micro"
  tags = {
    Name = "AnotherMachine"
  }
}
~
~

```

```

akshu20791gmail@ip-172-31-83-7:~/akshatdir$ terraform plan
aws_instance.web: Refreshing state... [id=i-0c145bbc1a062a86d]

```

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.web-secondresource will be created
+ resource "aws_instance" "web-secondresource" {
  + ami          = "ami-053b0d53c279acc90"
  + arn          = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone = (known after apply)
  + cpu_core_count = (known after apply)
  + cpu_threads_per_core = (known after apply)

```

terraform apply --auto-approve

```

akshu20791gmail@ip-172-31-83-7:~/akshatdir$ terraform apply --auto-approve
aws_instance.web: Refreshing state... [id=i-0c145bbc1a062a86d]

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  + arn          = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone = (known after apply)
  + cpu_core_count = (known after apply)
  + cpu_threads_per_core = (known after apply)
  + disable_api_stop = (known after apply)
  + disable_api_termination = (known after apply)
  + ebs_optimized = (known after apply)
  + get_password_data = false

```