

Launch Linux EC2 instances in two regions using a single Terraform file.

STEP 1 - write provider and resource file in main.tf file

```
main.tf > resource "aws_instance" "ec2-user"
1   provider "aws" {
2     region = "us-east-1" # Default region
3     alias  = "us-east-1"
4   }
5   provider "aws" {
6     region = "us-west-1" # Default region
7   }
```

```
8   # Launch EC2 Instance in us-east-1
9   resource "aws_instance" "ec2-user" {
10    ami           = "ami-0453ec754f44f9a4a"
11    instance_type = "t2.micro"
12
13    tags = {
14      Name = "guv.com"
15    }
16  }
```

```
17  # Launch EC2 Instance in us-east-2
18  resource "aws_instance" "ubuntu" {
19    ami           = "ami-038bba9a164eb3dc1" # Replace with your ami
20    instance_type = "t2.micro"
21
22    tags = {
23      Name = "guvi.in"
24    }
25  }
```

STEP 2 - do terraform init to create modules, plugins and dependencies and create terraform.lock.hcl file

```
PS C:\test> terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.70.0

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 3 - do terraform plan to execute the resource doing validations

```
PS C:\test> terraform plan
aws_instance.guvi_com: Refreshing state... [id=i-00c79c75f2f905a5f]

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.guvi_com will be created
+ resource "aws_instance" "guvi com" {
```

Plan: 2 to add, 0 to change, 0 to destroy.

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee you have the latest plan saved.

```
PS C:\test>
```

STEP 4 - do terraform apply to create and launch the instance in particular region

```
PS C:\test> terraform apply
```

```
Terraform used the selected providers to generate the following execution plan  
+ create
```

```
Terraform will perform the following actions:
```

```
# aws_instance.ec2-user will be created
```

```
+ resource "aws_instance" "ec2-user" {
```

```
Plan: 2 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.ec2-user: Creating...
```

```
aws_instance.ubuntu: Creating...
```

```
aws_instance.ubuntu: Still creating... [10s elapsed]
```

```
aws_instance.ec2-user: Still creating... [10s elapsed]
```

```
aws_instance.ec2-user: Creation complete after 16s [id=i-0e0859b3abc9fb66f]
```

```
aws_instance.ubuntu: Creation complete after 16s [id=i-0fbabd1af82728c06]
```

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

OUTPUT

Instance 1 - virginia us-east-1 , guvi.com

The screenshot shows the AWS Management Console for the us-east-1 region. The 'Instances' page displays a table with the following data:

	Name	Instance ID	Instance state	Instance type	Status check
<input checked="" type="checkbox"/>	guvi.in	i-0fbabd1af82728c06	Terminated	t2.micro	-
<input type="checkbox"/>	guvi.com	i-0853447cd1eb9a915	Running	t2.micro	2/2 checks passed
<input checked="" type="checkbox"/>	guvi.com	i-0e0859b3abc9fb66f	Terminated	t2.micro	-

Instance 2 - california us-west-1. guvi.in

Instances (1) [Info](#)

Last updated
1 minute ago

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Find Instance by attribute or tag (case-sensitive)

All states ▾

< 1 > ⚙

<input type="checkbox"/>	Name 🔗 ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Pu
<input type="checkbox"/>	guvi.in	i-06fd8251109812f4e	✓ Running 🔗 🔍	t2.micro	⌚ Initializing	View alarms +	us-west-1a	ec