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 > \( \frac{1}{2}\) resource "aws_instance" "ec2-user"

region = "us-east-1" # Default regionterr

alias = "us-east-1"

provider "aws" {
 region = "us-west-1" # Default region
}
```

STEP 2 - do terraform init to create moduldes, 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
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should now work.
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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 gu
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 pla + 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.

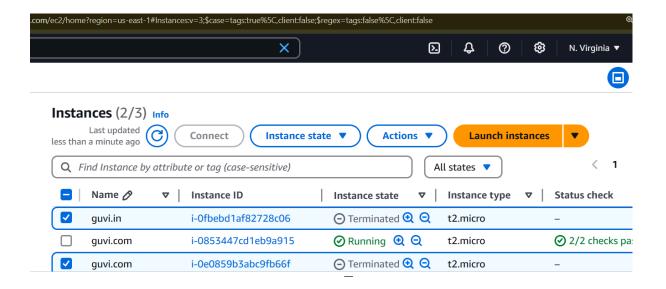
Enter a value: yes

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-0efbebd1af82728c06]

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

<u>OUTPUT</u>

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



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

