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

Creating a new directory:

Writing Terraform file:

```
aws
             Services
                           Q Search
                                                                                                          [Alt+S]
 provider "aws" {
   alias = "ap_south_1"
   region = "ap-south-1"
provider "aws" {
   alias = "us_east_1"
   region = "us-east-1"
resource "aws_instance" "Instance1" {
  provider = aws.ap_south_1
ami = "ami-0ec0e125bb6c6e8ec"
instance_type = "t2.micro"
  user_data = <<-EOF
           #!/bin/bash
           echo "Hello from ap-south-1" > /home/ec2-user/hello.txt
   tags = {
     Name = "Instance1"
 resource "aws_instance" "Instance2" {
  provider = aws.us_east_1
ami = "ami-078701cc0905d44e4"
instance_type = "t2.micro"
user_data = <<-EOF
          #!/bin/bash
           echo "Hello from us-east-1" > /home/ec2-user/hello.txt
  tags = {
  Name = "Instance2"
    INSERT
```

Initializing and executing terraform file:

```
ubuntu@ip-172-31-8-84:~$ cd new ubuntu@ip-172-31-8-84:~$ new $\frac{1}{2}$ ubuntu@ip-172-31-8-84:~$ new $\frac{1}{2}$ ubuntu@ip-172-31-8-84:~$ new $\frac{1}{2}$ ubuntu@ip-172-31-8-84:~$ new $\frac{1}{2}$ transform init Initializing the backend...

Initializing provider plugins...

- Finding latest version of hashicorp/aws...

- Installing hashicorp/aws v5.58.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hel to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

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. ubuntu@ip-172-31-8-84:~/new$
```

```
ubuntu@ip-172-31-8-84:~/new$ terraform validate
Success! The configuration is valid.
ubuntu@ip-172-31-8-84:~/new$
```

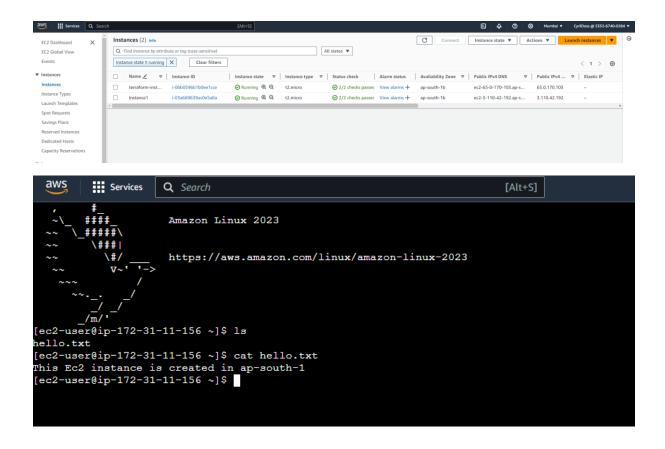
```
Services Q Search
           "Name" = "Instance2"
       }
tenancy
user_data
user_data_base64
user_data_replace_on_change
vpc_security_group_ids
                                                = (known after apply)
= "a412eb047a47a2a311586027078af945f9e49df0"
= (known after apply)
= false
= (known after apply)
      capacity reservation specification (known after apply)
      cpu options (known after apply)
       ebs_block_device (known after apply)
       enclave_options (known after apply)
       ephemeral_block_device (known after apply)
       instance_market_options (known after apply)
       maintenance_options (known after apply)
       metadata_options (known after apply)
       network_interface (known after apply)
       private_dns_name_options (known after apply)
      root_block_device (known after apply)
lan: 2 to add, 0 to change, 0 to destroy.
ote: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
```

```
aws
           Services Q Search
                                                                                           [Alt+S]
       + ebs_block_device (known after apply)
       + enclave_options (known after apply)
       + ephemeral block device (known after apply)
       + instance_market_options (known after apply)
       + maintenance_options (known after apply)
       + metadata_options (known after apply)
       + network_interface (known after apply)
       + private_dns_name_options (known after apply)
       + root block device (known after apply)
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.Instance1: Creating...
aws instance.Instance2: Creating...
aws instance.Instance1: Still creating... [10s elapsed]
aws_instance.Instance2: Still creating... [10s elapsed]
aws_instance.Instance1: Still creating... [20s elapsed]
aws_instance.Instance2: Still creating... [20s elapsed]
aws_instance.Instance1: Creation complete after 22s [id=i-03a689639ac0e5a0a] aws_instance.Instance2: Still creating... [30s elapsed] aws_instance.Instance2: Creation complete after 35s [id=i-00e57a2dc20c8c0ec]
apply complete! Resources: 2 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-8-84:~/new$
```

i-0bb0596b1b0ee1cce (terraform-instance)

Checking Whether instance has been created

Instance 1:



Instance 2:

