Creation of ec2 using Terrform – Variables- Map-locals- count

Variable.tf

```
variable "access_key" {
    type = string
    description = "accesskey"
    default= "AKIA6LFFGBWBZMAPML"
}


variable "region1" {
    default = "us-east-1"
}
variable "region2" {
    default = "us-west-2"
}


variable "secret_key" {
    type = string
    description = "secretkey"
    default= "VITGSj+3VwbCmmdnjajGxMwNHlb9DEqJuZCZaS"
}
variable "amis" {
    type = map(string)
    default = {
        "us-east-1" = "ami-0c02fb55956c7d316"
        "us-west-2" = "ami-00ee4df451840fa9d"
    }



}
variable "instances_count" {
  type=number
  default = 2
}
```

Main.tf

```
provider "aws" {
  region = var.region1
  access_key= var.access_key
  secret_key=var.secret_key
}


resource "aws_instance" "terraform-ec2" {
  ami = var.amis["us-east-1"]
  instance_type = "t2.micro"
  tags = {
    "Name" = "${local.environment1}-ec2"
  }
  count=var.instances_count
}


provider "aws" {
  region = var.region2
  access_key= var.access_key
  secret_key=var.secret_key
  alias = "second-region"
}
resource "aws_instance" "terraform-ec2-2" {
  ami = var.amis["us-west-2"]
  instance_type = "t2.micro"
  tags = {
    "Name" = "${local.environment2}-ec2"
  }
  provider = "aws.second-region"
  count=var.instances_count
}
```

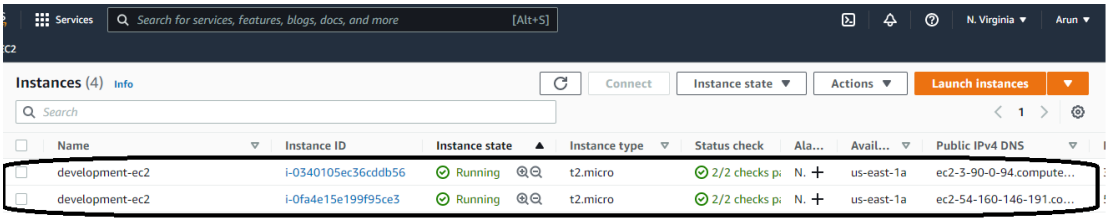
```
locals {
  environment1="development"
}


locals {
  environment2="testing"
}
```

Here,

1. **Instances were created in two different regions.**
2. **In each region 2 instances were created using count.**
3. **Tag is done using locals**
4. **Map is used for AMI ID**

2 instances in us-east-1



2 instances in us-west-2