SPCM LAB

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Lab Exercise 9– Creating Multiple EC2 Instances with for_each in Terraform

- 1. Create a Terraform Directory:
 - Create a file named main.tf

```
terraform-ec2-for-each >  main.tf
6    variable "instances" {

14    ami = "ami-0e670eb768a5fc3d4"
15    instance_type = "t2.micro "
16    },
17    "instance3" = {
18    ami = "ami-0e670eb768a5fc3d4"
19    instance_type = "t2.micro "
20    }
21    }
22    }
23    resource "aws_instance" "ec2_instances" {
24    for_each = var.instances
25    ami = var.instances[each.key].ami
26    instance_type = var.instances[each.key].instance_type
27    tags = {
28     Name = "EC2-Instance-${each.key}"
29    }
30    }
31
```

2. Intitalize and apply

```
PS D:\6 th sem\SPCM\SPCM LAB\teraform lab files\terraform-ec2-for-each > terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.38.0...
- Installed hashicorp/aws v5.38.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control re pository 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!
```

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

Do you want to perform these actions?

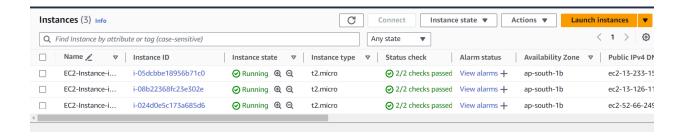
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

aws_instance.ec2_instances["instance3"]: Creating...
aws_instance.ec2_instances["instance2"]: Creating...
aws_instance.ec2_instances["instance2"]: Still creating... [10s ela d]
aws_instance.ec2_instances["instance3"]: Still creating... [20s ela d]
aws_instance.ec2_instances["instance2"]: Still creating... [20s ela d]
aws_instance.ec2_instances["instance3"]: Still creating... [20s ela d]
aws_instance.ec2_instances["instance2"]: Creation complete after 22 id=i-08b22368fc23e302e]
aws_instance.ec2_instances["instance3"]: Still creating... [30s ela d]
aws_instance.ec2_instances["instance3"]: Creation complete after 33 id=i-05dcbbe18956b71c0]

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

AWS verify



Clean up

