

# SPCM LAB-7

Objective: Learn how to use Terraform to create multiple IAM users with unique settings.

- Create two files, main.tf and run the commands terraform init

```
gauravbhandari@gauravs-Air-2 System-provisioning % terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (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 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!
```

- Create another file named i\_am\_users.tf

```
i_am_users.tf ×
i_am_users.tf > ...
1  resource "aws_iam_user" "my_iam_user" {
2      count = length(var.iam_users)
3      name  = var.iam_users[count.index]
4      tags = {
5          Name = "${var.iam_users[count.index]}-upes"
6      }
7  }
8  variable "iam_users" {
9      type    = list(string)
10     default = ["user1", "user2", "user3"]
11 }
```

- Run the command terraform apply -auto-approve

```
gauravbhandari@gauravs-Air-2 aws-terraform-demo % terraform apply -auto-approve

Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
+ create

Plan: 3 to add, 0 to change, 0 to destroy.
aws_iam_user.my_iam_user[2]: Creating...
aws_iam_user.my_iam_user[1]: Creating...
aws_iam_user.my_iam_user[0]: Creating...
aws_iam_user.my_iam_user[2]: Creation complete after 2s [id=user3]
aws_iam_user.my_iam_user[1]: Creation complete after 2s [id=user2]
aws_iam_user.my_iam_user[0]: Creation complete after 3s [id=user1]

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
```

- Check the aws console and verify the creation of required resources.

**Users (4)** [Info](#) Refresh Delete Create user

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

<input type="checkbox"/>	User name ▲	Path ▼	Group! ▼	Last activity ▼	MFA ▼	Password age ▼	Con
<input type="checkbox"/>	<a href="#">gaurav</a>	/	0		-	✓ 27 days	Feb
<input type="checkbox"/>	<a href="#">user1</a>	/	0		-	-	-
<input type="checkbox"/>	<a href="#">user2</a>	/	0		-	-	-
<input type="checkbox"/>	<a href="#">user3</a>	/	0		-	-	-

- After successful experimentation run terraform apply -auto-approve to destroy the resources.

```

• gauravbhandari@gauravs-Air-2 aws-terraform-demo % terraform destroy -auto-approve
aws_iam_user.my_iam_user[0]: Refreshing state... [id=user1]
aws_iam_user.my_iam_user[2]: Refreshing state... [id=user3]
aws_iam_user.my_iam_user[1]: Refreshing state... [id=user2]

Plan: 0 to add, 0 to change, 3 to destroy.
aws_iam_user.my_iam_user[1]: Destroying... [id=user2]
aws_iam_user.my_iam_user[2]: Destroying... [id=user3]
aws_iam_user.my_iam_user[0]: Destroying... [id=user1]
aws_iam_user.my_iam_user[1]: Destruction complete after 2s
aws_iam_user.my_iam_user[2]: Destruction complete after 2s
aws_iam_user.my_iam_user[0]: Destruction complete after 2s

Destroy complete! Resources: 3 destroyed.

```