

# Experiment 7

## Creating Multiple IAM Users in Terraform

### Aim

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

### Steps

1. Create a main file & variables.tf file for EC2 Instance.

```
Exp7 > main.tf
1  terraform {
2      required_providers {
3          aws = {
4              source = "hashicorp/aws"
5              version = "5.31.0"
6          }
7      }
8  }
9
10 provider "aws" {
11     region = var.region
12     access_key = var.access_key
13     secret_key = var.secret_key
14 }
15
16 resource "aws_iam_user" "iam_users" {
17     count = length(var.iam_users)
18     name = var.iam_users[count.index]
19
20     tags = {
21         Name = "${var.iam_users[count.index]}-user"
22     }
23 }
24
25
```

```
Exp7 > variables.tf
1  variable "iam_users" {
2      type = list(string)
3      default = ["user1", "user2", "user3"]
4  }
5
6  variable region {
7      type = string
8      default = "ap-south-1"
9      description = "AWS Region"
10 }
11
```

## 2. Initialize & Apply the configuration

```
Exp7 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)
```

```
Exp7 terraform apply

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_iam_user.iam_users[0] will be created
```

## 3. Verify the IAM users on AWS

<input type="checkbox"/>	User name	▲	Path	▼	Group: ▼	Last activity
<input type="checkbox"/>	<a href="#">Ayush</a>		/		0	📶
<input type="checkbox"/>	<a href="#">user1</a>		/		0	📶
<input type="checkbox"/>	<a href="#">user2</a>		/		0	📶
<input type="checkbox"/>	<a href="#">user3</a>		/		0	📶

## 4. Update the list of users to update the count of IAM Users on AWS

```
Exp7 > variables.tf
1 variable "iam_users"{
2   type = list(string)
3   default = ["ayroid", "user1"]
4 }
5
```

<input type="checkbox"/>	User name	▲	Path	▼	Group: ▼	Last activity
<input type="checkbox"/>	<a href="#">ayroid</a>		/		0	-
<input type="checkbox"/>	<a href="#">Ayush</a>		/		0	🟢 5 minutes
<input type="checkbox"/>	<a href="#">user1</a>		/		0	-

## 5. Clean up resources

**Do you really want to destroy all resources?**

Terraform will destroy all your managed infrastructure, as shown above.  
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws\_iam\_user.iam\_users[0]: Destroying... [id=ayroid]

aws\_iam\_user.iam\_users[1]: Destroying... [id=user1]

aws\_iam\_user.iam\_users[1]: Destruction complete after 7s

aws\_iam\_user.iam\_users[0]: Destruction complete after 7s

**Destroy complete! Resources: 2 destroyed.**

○ → Exp7 █