

School of Computer Science
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
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**System Monitoring And
Configuration Mangement**

Lab File
(2023-2024)
for
6th Semester

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LAB EXERCISE 7

Aim: Creating Multiple IAM Users in Terraform

Step 1: Create a main.tf file.

```
Lab_7 > main.tf
  Click here to ask Blackbox to help you code faster
1  provider "aws" {
2      region = var.region
3      access_key = "AKIA2UC27CLCKNWKFS6N"
4      secret_key = "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"
5  }
6
7  variable "iam_users"{
8      type = list(string)
9      default = ["user1", "user2", "user3"]
10 }
11
12 resource "aws_iam_user" "iam_users" {
13     count = length(var.iam_users)
14     name = var.iam_users[count.index]
15
16
17     tags = {
18         Name = "${var.iam_users[count.index]}-user"
19     }
20 }
21
```

Step 2: Create a instance.tf file

```

Lab_7 > instance.tf
  Click here to ask Blackbox to help you code faster
1  resource "aws_instance" "My-instance"{
2      instance_type = var.instance_type
3      ami = var.ami
4
5      tags = {
6          Name = "UPES-EC2-Instance"
7      }
8  }
9
10 resource "aws_iam_user" "iam_users"{
11     count = length(var.iam_users)
12     name = var.iam_users[count.index]
13
14     tags = {
15         Name = "${var.iam_users[count.index]}-user"
16     }
17 }
18
19
20
21
22

```

Step 3: Create a variable.tf file

```

Lab_7 > variables.tf
  Click here to ask Blackbox to help you code faster
1  variable ami {
2      type = string
3      default = "ami-008fe2fc65df48dac"
4  }
5
6  variable "instance_type"{
7      type = string
8      default = "t2.micro"
9  }
10
11 variable "iam_users"{
12     type = list(string)
13     default = ["user1", "user2", "user3"]
14 }

```

Step 4: Now initializes

Step 5: Now perform validate

Step 6: Now perform the terraform apply

Step 7: Now perform Terraform destroy

```
● PrakharGupta@192 LAB_7 % terraform init
Initializing the backend...
Initializing provider plugins...
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.
● PrakharGupta@192 LAB_7 % terraform validate
Success! The configuration is valid.
● PrakharGupta@192 LAB_7 % terraform apply
No changes. Your infrastructure matches the configuration.
Terraform has compared your real infrastructure against your configuration and found no differences, so no
changes are needed.
Apply complete! Resources: 0 added, 0 changed, 0 destroyed.
● PrakharGupta@192 LAB_7 % terraform destroy
No changes. No objects need to be destroyed.
Either you have not created any objects yet or the existing objects were already deleted outside of Terraform.
Destroy complete! Resources: 0 destroyed.
○ PrakharGupta@192 LAB_7 % █
```