EXPERIMENT – 7

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Batch – 2 [DevOps Non-Hons]

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Subject – System Provisioning and Configuration Management Lab

Aim: Creating Multiple IAM Users in Terraform.

1] Create a Terraform Configuration File (main.tf)

2] Create new file name as "variables.tf"

3] Create new file name as "resource.tf" and define a list variable IAM users containing the names of the IAM users that we want to create.

```
main.tf    variable.tf    resource.tf X

Multiple IAM Users-7 > resource.tf > resource "aws_iam_user" "iam_users"
    Click here to ask Blackbox to help you code faster | Comment Code |
    resource "aws_instance" "UPES" {
        ami = var.ami
        instance_type = var.instance_type
        tags = {
            Name = "My-EC2-Instance"
        }
    }

    Comment Code
    resource "aws_iam_user" "iam_users" {
            count = length(var.iam_users)
            name = var.iam_users[count.index]
        tags = {
            Name = "${var.iam_users[count.index]} - user"
        }
    }
}
```

4] Initialize Terraform using command "terraform init"

```
PS F:\UPES\6th Semester\Sys Provisioning and Cnfg Mgmt\Lab\Terraform-Lab-Scripts\Multiple IAM Users-7> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws vs.sil.e...
- Installing hashicorp/aws vs.sil.e...
- Installed hashicorp/aws v5.31.e. (signed by HashiCorp)

Terraform has created a lock file .terraform.lack.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.
any changes that are required for your infrastructure. All Terraform commands should now work.

If you aver set or change sodules 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.
```

5] Apply it using command "Terraform apply"

```
PS F:\UPCS\6th Semester\Sys Provisioning and Onfg Mgmt\Lab\Ternaform-Lab\Scripts\Waltiple IAM Users-7> ternaform apply -mito-approximate forms used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

# mat_iam_user.iam_users[0] will be created

* recovers "aks_iam_users[0] will be created

* recovers "aks_iam_users[0] will be created

* recovers "aks_iam_users[1] will be created

* path - "["

* These" = "user1"-user"

} user1-users[1] will be created

* recovers "aks_iam_users[1] will be created
```

```
# aws_iam_user.iam_users[2] will be created
+ resource "aws_iam_user" 'iam_users" (
+ arm = (known after apply)
              force_destroy = false
id = (known after apply)
           path
              tags - (
| "Nume" - "user3-user"
           + tags_all - {
+ "Name" - "user3-user"
          · unique id
                                  - (known after apply)
   # aws_instance.UPES will be created resource "aws instance" "UPES" {
       resource "aws_instance"
ami
                                                                               - "ami-00952f27cf14db9cd"
                                                                             - "ami-00952t2/cf1dob

(known after apply)

- (known after apply)
            associate public ip address
              availability_rone
             cpu_core_count
cpu_threads_per_core
           disable_api_stop
disable_api_termination
ebs_optimized
                                                                              (known after apply)false
            get_password_data
host_id
             host_resource_group_arm
iam_instance_profile
            key_name

    spot_instance_request_id
    subnet_id

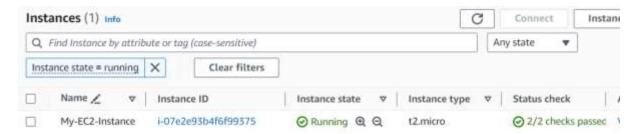
                                                                             - (known after apply)
- (known after apply)
          tags
| "Name" = "My-EC2-Instance"
             tags_all "Mame" = "My-EC2-Instance"
                                                                             (known after apply)(known after apply)false
          user_data
user_data_base64

    user_data_replace_on_change
    vpc_security_group_ids

                                                                             - (known after apply)
Plan: 4 to add, 0 to change, 0 to destroy.
aws_iam_user.iam_users[2]: Creating...
]
aws_iam_user.iam_users[0]: Creation complete after 2s [id=user1]
aws_iam_user.iam_users[1]: Creation complete after 2s [id=user2]
aws_instance.UPES: Still creating... [10s elapsed]
aws_instance.UPES: Still creating... [20s elapsed]
aws_instance.UPES: Creation complete after 22s [id=i-07e2e93b4f6f99375]
 apply complete! Resources: 4 added, 0 changed, 0 destroyed
```

6] Verify Resources on AWS Management Console.

EC₂



User

