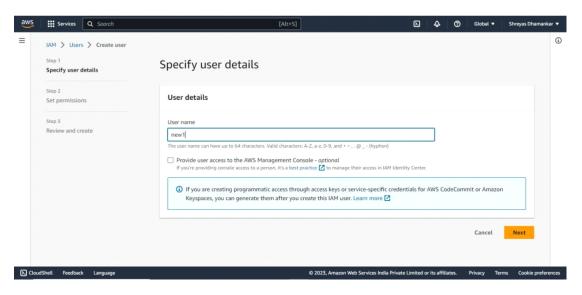
Deep Chavan

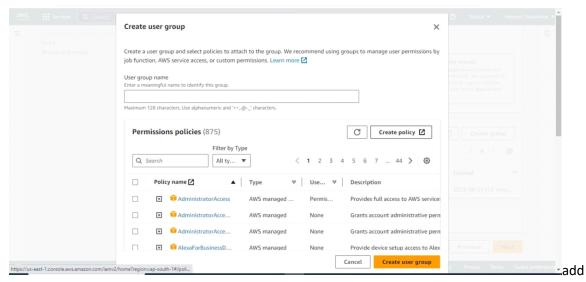
T11-15

Assignment No. 5

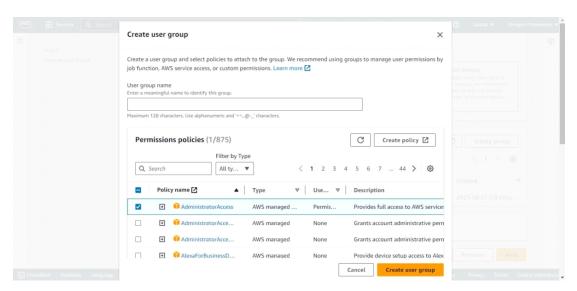
<u>Aim:</u> To understand the concept of terraform and how to use it to create an instance.

Theory:

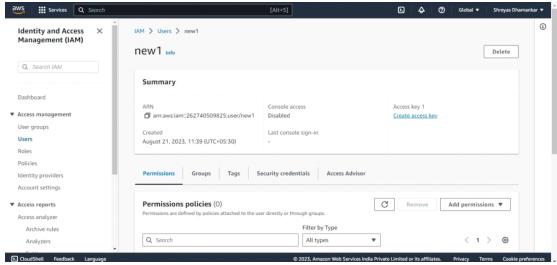




a new user group with permission to have administrator access



then go to user and select create new access key. after selecting select create CLI and dowload the csv.



write this script and save it in Terraform Script folder. use the acces keys and secret key presentin the csv files.

```
File Edit Format View Help

provider "aws" {
    access_key="AKIAT2LEOASA6QMGQZO2"
    secret_key="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"
    region="ap-south-1"
    }
    resource "aws_instance" "Ubuntu" {
    ami="ami-0f5ee92e2d63afc18"
    instance_type="t2.micro"
}
```

open cmd and choose the path where you have stored the script and run the following commands init, plan, apply and destroy.

```
C:\Terraform Script>terraform init

Initializing the backend...

Initializing provider plugins...
Finding latest version of hashicorp/aws...
Installing hashicorp/aws v5.13.0...
Installed hashicorp/aws v5.13.0 (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.

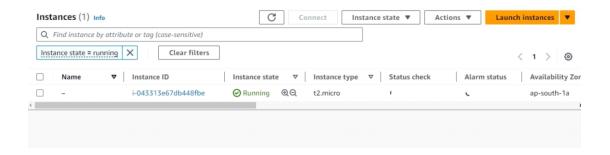
Terraform has been successfully initialized!

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.
```

```
instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle
                                              = (known after apply)
      + instance state
                                                (known after apply)
      + instance type
                                                "t2.micro"
      + ipv6 address count
                                              (known after apply)
                                                (known after apply)
      + ipv6_addresses
                                                (known after apply)
      + key_name
      + monitoring
                                                (known after apply)
      + outpost_arn
                                              = (known after apply)
      + password data
                                             = (known after apply)
      + placement_group
                                             = (known after apply)
      + placement_partition_number
                                             = (known after apply)
     + primary_network_interface_id
                                             = (known after apply)
      + private dns
                                              = (known after apply)
      + private ip
                                              = (known after apply)
                                              = (known after apply)
      + public_dns
      + public_ip
                                              = (known after apply)
      + secondary_private_ips
                                              = (known after apply)
      + security_groups
                                              = (known after apply)
      + source_dest_check
                                              = true
     + spot_instance_request_id
                                              = (known after apply)
     + subnet_id
                                             = (known after apply)
     + tags_all
                                             = (known after apply)
     + tenancy
                                             = (known after apply)
     + user data
                                             = (known after apply)
      + user data base64
                                             = (known after apply)
      + user_data_replace_on_change
                                             = false
      vpc_security_group_ids
                                             = (known after apply)
Plan: 1 to add, 0 to change, 0 to destroy.
```

instance has been created.



```
Plan: 0 to add, 0 to change, 1 to destroy.

Do you really want to destroy all resources?

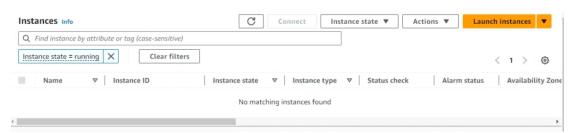
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws_instance.Ubuntu: Destroying... [id=i-043313e67db448fbe]
aws_instance.Ubuntu: Still destroying... [id=i-043313e67db448fbe, 10s elapsed]
aws_instance.Ubuntu: Still destroying... [id=i-043313e67db448fbe, 20s elapsed]
aws_instance.Ubuntu: Still destroying... [id=i-043313e67db448fbe, 30s elapsed]
aws_instance.Ubuntu: Destruction complete after 30s

Destroy complete! Resources: 1 destroyed.
```

instance has been detroyed



once terraform destroy command has been run and completed you can delete all security keysand csv files and delete users and user groups.

Conclusion:

6

In this assignment we learnt how to install terraform and use it torun scripts.