Assignment 2:
Working with EC2 instances

Create a EC2 instance

Connect to the instance

File Edit Selection View Go Run Terminal Help

01main.tf

C: > terraform > 01main.tf

```
provider "aws" {
    region     = "us-east-2"
    access_key = "AKIA6INCOCVQAXSMPY55"
    secret_key = "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"
}

resource "aws_instance" "cloudknowledgeindia" {
    ami           = "ami-00dfe2c7ce89a450b"
    instance_type = "t2.micro"

    tags = {
        name = "assignment2"
    }
}
```

0 0

Type here to search

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.295]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\terraform>terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v3.58.0

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.

C:\terraform>_
```

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C:\Windows\System32\cmd.exe

```
      - http_endpoint                = (known after apply)
      - http_put_response_hop_limit  = (known after apply)
      - http_tokens                  = (known after apply)
    }

  - network_interface {
      - delete_on_termination = (known after apply)
      - device_index          = (known after apply)
      - network_interface_id  = (known after apply)
    }

  + root_block_device {
      + delete_on_termination = (known after apply)
      + device_name           = (known after apply)
      + encrypted             = (known after apply)
      + iops                  = (known after apply)
      + kms_key_id            = (known after apply)
      + tags                  = (known after apply)
      + throughput            = (known after apply)
      + volume_id             = (known after apply)
      + volume_size           = (known after apply)
      + volume_type           = (known after apply)
    }
}

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

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

aws_instance.cloudknowledgeindia: Creating...
aws_instance.cloudknowledgeindia: Still creating... [10s elapsed]
aws_instance.cloudknowledgeindia: Still creating... [20s elapsed]
aws_instance.cloudknowledgeindia: Still creating... [30s elapsed]
aws_instance.cloudknowledgeindia: Still creating... [40s elapsed]
aws_instance.cloudknowledgeindia: Still creating... [50s elapsed]
aws_instance.cloudknowledgeindia: Creation complete after 50s [id=i-0ff8518009c802ea2]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

C:\terraform>
```

```
      + enclave_options {
          - enabled = (known after apply)
        }

      - ephemeral_block_device {
          - device_name  = (known after apply)
          - no_device    = (known after apply)
          - virtual_name = (known after apply)
        }

      + metadata_options {
          + http_endpoint               = (known after apply)
          + http_put_response_hop_limit = (known after apply)
          + http_tokens                 = (known after apply)
        }

      + network_interface {
          + delete_on_termination = (known after apply)
          + device_index          = (known after apply)
          + network_interface_id  = (known after apply)
        }

      + root_block_device {
          + delete_on_termination = (known after apply)
          + device_name           = (known after apply)
          + encrypted             = (known after apply)
          + iops                  = (known after apply)
          + kms_key_id            = (known after apply)
          + tags                  = (known after apply)
          + throughput            = (known after apply)
          + volume_id             = (known after apply)
          + volume_size           = (known after apply)
          + volume_type           = (known after apply)
        }
    }

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

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform ap

C:\terraform>terraform apply
```

Apps Gmail YouTube Maps Translate aws_key_pair | Reso...

aws Services Search for services, features, marketplace products, and docs [Alt+S] Rahul yadav Ohio

New EC2 Experience
Tell us what you think

- EC2 Dashboard
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  - Reserved Instances New
  - Dedicated Hosts
  - Capacity Reservations

Instances (1/3) Info

Connect | Instance state | Actions | Launch instances

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Assignment2	i-0ff8518009c802ea2	Running	t2.micro	2/2 checks passed	No alarms
jenkins	i-03a646a7ad3f3dfb8	Stopped	t2.micro	-	No alarms
terraform-server	i-020710757c0f6cb2a	Stopped	t2.micro	-	No alarms

Instance: i-0ff8518009c802ea2

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

Instance ID
i-0ff8518009c802ea2

Public IPv4 address
18.188.51.67 | open address

Private IPv4 addresses
172.31.1.20

 Privacy Policy Terms of Use

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#

new_user_credenti....csv

Type here to search

ENG IN 7:46 AM 9/14/202

ec2-user@ip-172-31-44-114:~

```
rahul@DESKTOP-PORGFUH MINGW64 ~/Downloads
$

rahul@DESKTOP-PORGFUH MINGW64 ~/Downloads
$ ssh -i terraform-key.pem ec2-user@18.225.35.238
The authenticity of host '18.225.35.238 (18.225.35.238)' can't be established.
ED25519 key fingerprint is SHA256:W/kQ1y4Ih2KBG1YdzgstLAEhIRLKNZKjnG6kOTG1190.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:1: 13.58.53.10
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '18.225.35.238' (ED25519) to the list of known hosts.
Last login: Mon Sep  6 07:48:23 2021 from 112.79.121.31

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https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-44-114 ~]$
```