Creating an instance in aws using terraform in your local system:

Steps:

1. Install terraform on local:

https://developer.hashicorp.com/terraform/tutorials/aws-get-started/install-cli Install terraform extension in vscode:

https://srinimf.com/2023/04/01/the-easiest-way-to-run-terraform-in-visual-studio-code/

2. Install aws cli:

https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html Install aws cli extension in vscode:

https://aws.plainenglish.io/install-and-configure-aws-toolkit-for-vs-code-to-work-with-serv erless-application-421d7bf271c9

- 3. Create admin user in AWS and create secret keys for cli access.
- 4. Setup access key in vscode for aws: execute below command in vscode terminal aws configure

When prompted provide the access key id and then secret access key

5. Create main.tf:

```
terraform {
  required_providers {
  aws = {
    source = "hashicorp/aws"
  version = "~> 4.16"
  }
}

required_version = ">= 1.2.0"
}

provider "aws" {
  region = "ap-south-1"
  }

resource "aws_instance" "app_server" {
  ami = "ami-0ded8326293d3201b"
  instance_type = "t2.micro"

tags = {
  Name = "ExampleAppServerInstance"
  }
}
```

6. Now execute the below terraform commands:

terraform init

terraform validate

Terraform apply

- 7. Check the instance created in AWS console
- 8. Destroy the instance using: terraform destroy