**Write a Terraform configuration to create a local Docker container running Nginx. container should be created using the Docker provider in Terraform.**

1. Create a folder for terraform in download
2. Inside folder create a tf file
3. Open in vscode : paste this in tf file save it

Paste:

# Specify the provider

terraform {

required\_providers {

docker = {

source = "kreuzwerker/docker"

version = "~> 3.0"

}

}

}

provider "docker" {

host = "npipe:////./pipe/docker\_engine"

}

# Create a Docker image for Nginx

resource "docker\_image" "nginx\_image" {

name = "nginx:latest"

keep\_locally = false

}

# Create a Docker container using the Nginx image

resource "docker\_container" "nginx\_container" {

name = "nginx\_container"

image = docker\_image.nginx\_image.name

ports {

internal = 80

external = 8080

}

}

# Output the container name and ID

output "container\_info" {

value = {

container\_name = docker\_container.nginx\_container.name

container\_id = docker\_container.nginx\_container.id

}

}

1. Open cmd go to the folder location in cmd

Then cmd: terraform init

Then cmd: terraform apply