Terraform config with Docker

Install Terraform on local machine (Ubuntu 20.04)

Update package manager

```
sudo apt-get update
```

Install gnupg, software-properties-common, and curl packages

```
sudo apt-get install -y gnupg software-properties-common curl
```

Add HashiCorp GPG Key

```
curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo apt-key add -
```

Add official HashiCorp Linux repository

```
sudo apt-add-repository "deb [arch=amd64] https://apt.releases.hashicorp.com $(lsb_release -cs) main"
```

Update package manager

```
sudo apt-get update
```

Install Terraform CLI

```
sudo apt-get install terraform
```

Verify installation

```
terraform -help
```

```
sebastian@LAPTOP-IRMJH3C9:~$ terraform -help
Usage: terraform [global options] <subcommand> [args]

The available commands for execution are listed below.
The primary workflow commands are given first, followed by
less common or more advanced commands.
```

Provisioning a Jenkins server using Docker

Create a working directory and create a file called `main.tf` inside that directory

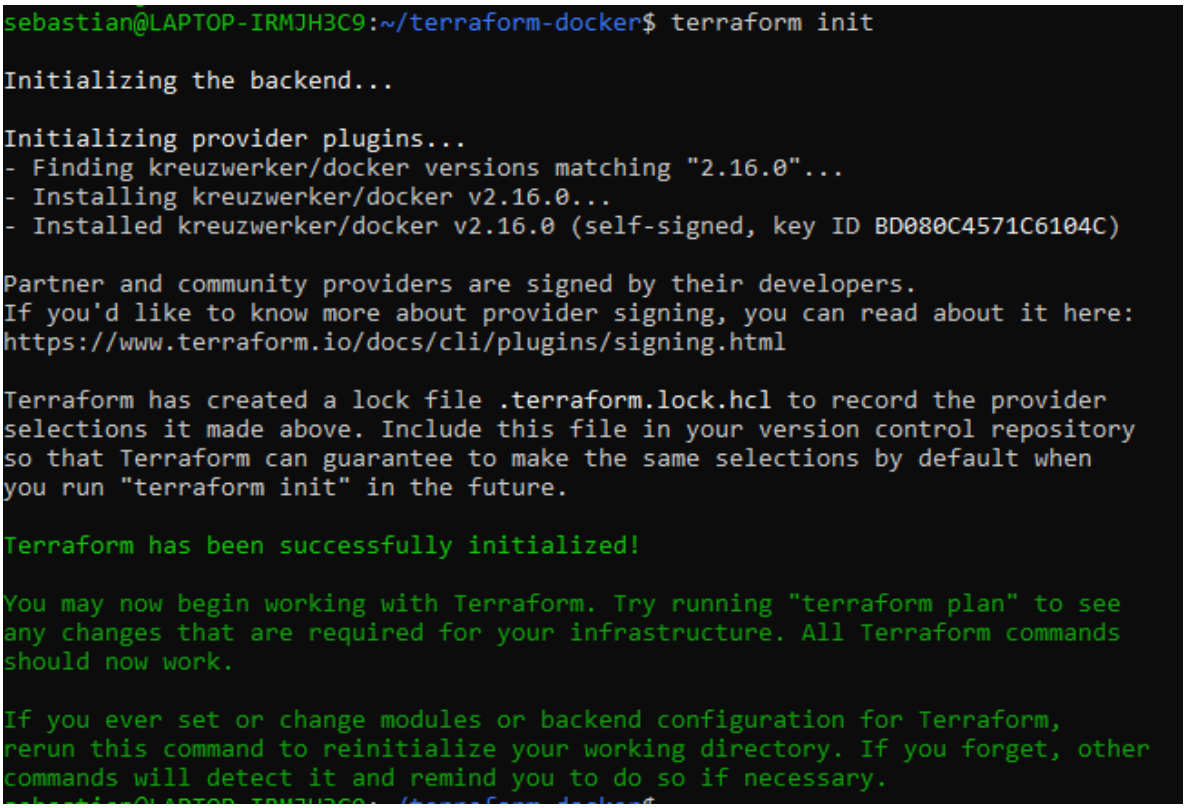
```
sebastian@LAPTOP-IRMJH3C9:~/terraform-docker$ ls
main.tf
```

Add the following configuration inside the `main.tf` file

[Space for picture]

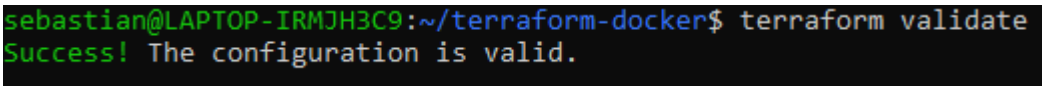
Initialize the project

```
terraform init
```



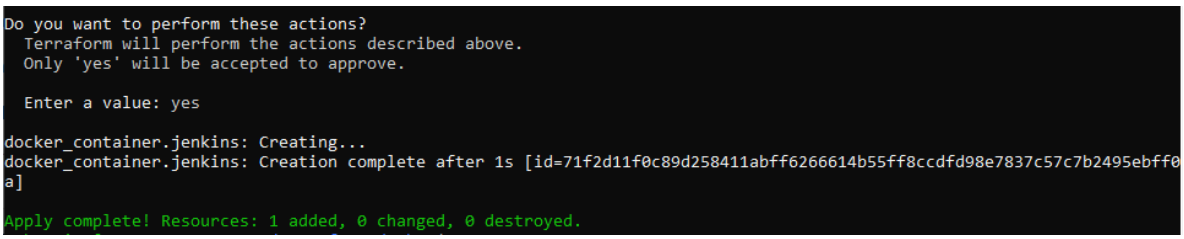
Validate the configuration

```
terraform validate
```



Provision the Jenkins server container. If prompted to confirm, type yes

```
terraform apply
```



Verify that Jenkins is up and running accessing http://localhost:8080