```
[cloudshell-user@ip-10-138-168-101 ~]$ git clone https://github.com/tfutils/tfenv.git ~/.tfenv
Cloning into '/home/cloudshell-user/.tfenv'...
remote: Enumerating objects: 2057, done.
remote: Counting objects: 100% (662/662), done.
remote: Compressing objects: 100% (207/207), done.
remote: Total 2057 (delta 517), reused 522 (delta 446), pack-reused 1395
Receiving objects: 100% (2057/2057), 437.28 KiB | 11.82 MiB/s, done.
Resolving deltas: 100% (1321/1321), done.
[cloudshell-user@ip-10-138-168-101 ~]$ mkdir ~/bin
[cloudshell-user@ip-10-138-168-101 ~]$ ln -s ~/.tfenv/bin/* ~/bin/
[cloudshell-user@ip-10-138-168-101 ~]$ tfenv install 1.2.5
Installing Terraform v1.2.5
Downloading release tarball from https://releases.hashicorp.com/terraform/1.2.5/terraform_1.2.5_linux_amd64.zip
################################################################################################################################################################################################################ 100.0%
Downloading SHA hash file from https://releases.hashicorp.com/terraform/1.2.5/terraform_1.2.5_SHA256SUMS
Not instructed to use Local PGP (/home/cloudshell-user/.tfenv/use-{gpgv,gnupg}) & No keybase install found, skipping OpenPGP signature verification
terraform_1.2.5_linux_amd64.zip: OK
Archive:  /tmp/tfenv_download.qh0C7M/terraform_1.2.5_linux_amd64.zip
  inflating: /home/cloudshell-user/.tfenv/versions/1.2.5/terraform
Installation of terraform v1.2.5 successful. To make this your default version, run 'tfenv use 1.2.5'
[cloudshell-user@ip-10-138-168-101 ~]$ tfenv use 1.2.5
Switching default version to v1.2.5
Default version (when not overridden by .terraform-version or TFENV_TERRAFORM_VERSION) is now: 1.2.5
[cloudshell-user@ip-10-138-168-101 ~]$ terraform --version
Terraform v1.2.5
on linux_amd64

Your version of Terraform is out of date! The latest version
is 1.8.4. You can update by downloading from https://www.terraform.io/downloads.html
[cloudshell-user@ip-10-138-168-101 ~]$
```

```
[cloudshell-user@ip-10-138-168-101 ~]$ git clone https://github.com/Minimi420/Telematica.git
Cloning into 'Telematica'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 19 (delta 2), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (19/19), 6.76 KiB | 1.13 MiB/s, done.
Resolving deltas: 100% (2/2), done.
```

```
[cloudshell-user@ip-10-138-168-101 Telematica]$ ls
Dockerfile  main.tf  pag  README.md  scripts  terraform.tf
[cloudshell-user@ip-10-138-168-101 Telematica]$
```

```
[cloudshell-user@ip-10-138-168-101 Telematica]$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.50.0...
- Installed hashicorp/aws v5.50.0 (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.
```

```
      + tags                      = {
          + "Name" = "allow_http"
        }
      + tags_all                  = {
          + "Name" = "allow_http"
        }
      + vpc_id                    = "vpc-0bc8c0035a5b63f32"
    }

Plan: 2 to add, 0 to change, 0 to destroy.

Changes to Outputs:
  + public_ip = (known after apply)

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_security_group.allow_http: Creating...
aws_security_group.allow_http: Creation complete after 2s [id=sg-022e56714839854e6]
aws_instance.web: Creating...
aws_instance.web: Still creating... [10s elapsed]
aws_instance.web: Creation complete after 14s [id=i-01a4764c4e81334a1]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

public_ip = "54.236.9.80"
[cloudshell-user@ip-10-138-168-101 Telematica]$
```

54.236.9.80

```
[ec2-user@ip-172-31-36-40 ~]$ cd /Telematica
[ec2-user@ip-172-31-36-40 Telematica]$ sudo docker build -t web-image:v1 .
[+] Building 2.1s (7/7) FINISHED                                                                                    docker:default
 => [internal] load build definition from Dockerfile                                                                        0.0s
 => => transferring dockerfile: 134B                                                                                        0.0s
 => [internal] load metadata for docker.io/library/nginx:alpine                                                             0.3s
 => [internal] load .dockerignore                                                                                           0.0s
 => => transferring context: 2B                                                                                             0.0s
 => [internal] load build context                                                                                           0.0s
 => => transferring context: 56.40kB                                                                                        0.0s
 => [1/2] FROM docker.io/library/nginx:alpine@sha256:516475cc129da42866742567714ddc681e5eed7b9ee0b9e9c015e464b4221a00      1.5s
 => => resolve docker.io/library/nginx:alpine@sha256:516475cc129da42866742567714ddc681e5eed7b9ee0b9e9c015e464b4221a00      0.0s
 => => sha256:721fa00bc549df26b3e67cc558ff176112d4ba69847537766f3c28e171d180e7 2.50kB / 2.50kB                              0.0s
 => => sha256:501d84f5d06487ff81e506134dc922ed4fd2080d5521eb5b6ee4054fa17d15c4 10.80kB / 10.80kB                            0.0s
 => => sha256:fc21a1d387f514f53589abea6d67cd6b329dfd3c9059bc96a552af3b3c97b413 3.99MB / 3.99MB                              0.2s
 => => sha256:e6ef242c15702693 5bf8a69e6cf19f8f6635e44507c813daf0cc644f2e22396b 629B / 629B                                 0.1s
 => => sha256:13fcfbc94648785b918ecc1af675ac5187cdfc30f4fdaf9afa8bd2e9dedf548b 954B / 954B                                  0.1s
 => => sha256:516475cc129da42866742567714ddc681e5eed7b9ee0b9e9c015e464b4221a00 9.07kB / 9.07kB                              0.0s
 => => sha256:4abcf20661432fb2d719aaf90656f55c287f8ca915dc1c92ec14ff61e67fbaf8 3.41MB / 3.41MB                              0.1s
 => => extracting sha256:4abcf20661432fb2d719aaf90656f55c287f8ca915dc1c92ec14ff61e67fbaf8                                    0.1s
 => => sha256:d4bca490e609acaaf54ca73363442d31a31fd136a47a20a12370cf2025f0a10b 393B / 393B                                  0.2s
 => => sha256:5406ed7b06d9a94b5bd15843d2a1c7e38796a3ec5dc7f40f16f70cc1d045f453 1.21kB / 1.21kB                              0.2s
```

```
 => => exporting layers                                                                                                     0.0s
 => => writing image sha256:2261f8ae51d52cdac5da8fcc39f1245889c82453a7c7d3b7d70cc0dbc87789cd                                0.0s
 => => naming to docker.io/library/web-image:v1                                                                             0.0s
[ec2-user@ip-172-31-36-40 Telematica]$ sudo docker run -d -p 80:80 web-image:v1
73c42f35bf78539e094fc752b5fc22f222aed4264f096b76a6343dd8d2f99b81
[ec2-user@ip-172-31-36-40 Telematica]$
```