How to Execute Terraform in a Local Environment

1 - Verify Terraform installation with the command

terraform --version

```
$ terraform --version
Terraform v1.9.6
on windows_386
+ provider registry.terraform.io/hashicorp/azuread v2.19.1
+ provider registry.terraform.io/hashicorp/azurerm v3.51.0
+ provider registry.terraform.io/hashicorp/null v3.2.3
+ provider registry.terraform.io/hashicorp/random v3.6.3
+ provider registry.terraform.io/hashicorp/template v2.2.0
+ provider registry.terraform.io/hashicorp/vault v3.8.2

Your version of Terraform is out of date! The latest version
is 1.9.7. You can update by downloading from https://www.terraform.io/downloads.html
```

2 - Clone the repository dev-ivestran-pcs Inside, we will have the following structure

```
dev-investran-pcs /

|----readme.md

|----/tf

/DEV
```

3 - Inside the /DEV directory:

```
_backend.tf _data_sources.tf _locals.tf _outputs.tf _providers.tf _remote_states.tf _variables.tf main.tf
```

• We need to go to the main.tf file and comment out the line:

```
module "pcs" {
    #source = "vlmaztform01.fisdev.local/FIS-Cloud-Services/pcs-platform-dev/azurerm"
```

- Below, specify the path to our folder ../terraform-azurem-pcs-platform-dev
- Example:

```
source = "c:/Workdir/terraform-azurerm-pcs-platform-dev"
```

4 - Now, even though we are running locally, we first need to log in and obtain a token.

• We must execute the following command from the terminal:

terraform login vlmaztform01.fisdev.local

• We confirm with "yes" and press "ENTER"

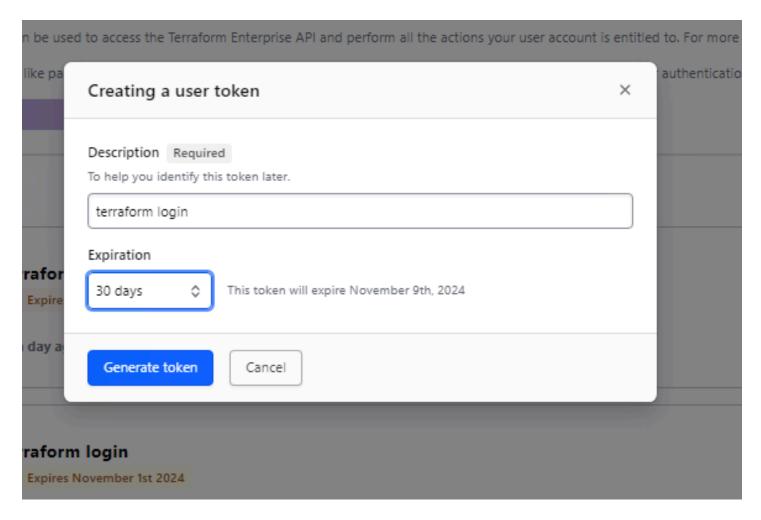
```
$ terraform login vlmaztform01.fisdev.local
Terraform will request an API token for vlmaztform01.fisdev.local using your browser.

If login is successful, Terraform will store the token in plain text in
the following file for use by subsequent commands:
        C:\Users\lc5742973\AppData\Roaming\terraform.d\credentials.tfrc.json

Do you want to proceed?
Only 'yes' will be accepted to confirm.

Enter a value: yes
```

• This should take us to an Edge view, and we need to generate a new token.



Once generated, we paste it into the terminal and press "ENTER".

5 - Run the command terraform init from the path dev-investran.pcs/tf/DEV and wait for it to complete.

```
Initializing the backend...
Initializing modules...
Initializing provider plugins...
 terraform.io/builtin/terraform is built in to Terraform
 Reusing previous version of hashicorp/vault from the dependency lock file
 Reusing previous version of hashicorp/azurerm from the dependency lock file
 Reusing previous version of hashicorp/random from the dependency lock file
 Reusing previous version of hashicorp/null from the dependency lock file
 Reusing previous version of hashicorp/template from the dependency lock file
 Reusing previous version of hashicorp/azuread from the dependency lock file Using previously-installed hashicorp/template v2.2.0
 Using previously-installed hashicorp/azuread v2.19.1
 Using previously-installed hashicorp/vault v3.8.2
 Using previously-installed hashicorp/azurerm v3.51.0
 Using previously-installed hashicorp/random v3.6.3
 Using previously-installed hashicorp/null v3.2.3
erraform has been successfully initialized!
ou may now begin working with Terraform. Try running "terraform plan" to see
ny changes that are required for your infrastructure. All Terraform commands
hould now work.
f you ever set or change modules or backend configuration for Terraform,
erun this command to reinitialize your working directory. If you forget, other
ommands will detect it and remind you to do so if necessary.
c5742973@CPC-AlanD-NCH11 MINGW64 /c/Local-dev-investran-pcs/dev-investran-pcs/tf/DEV (master)
```

6 - Ready! Now we can run terraform plan.