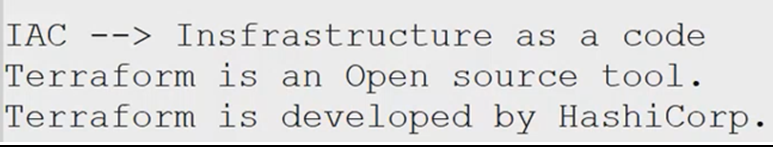
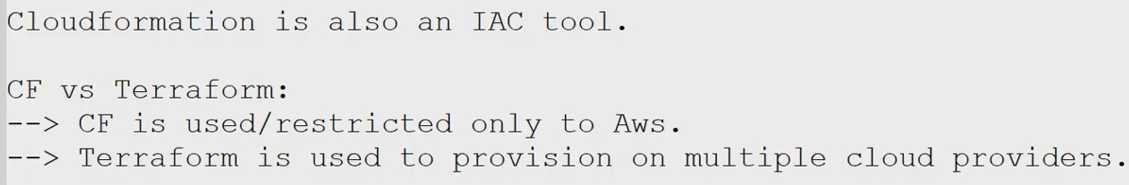
**Terraform**

**Terraform is IAC TOOL**

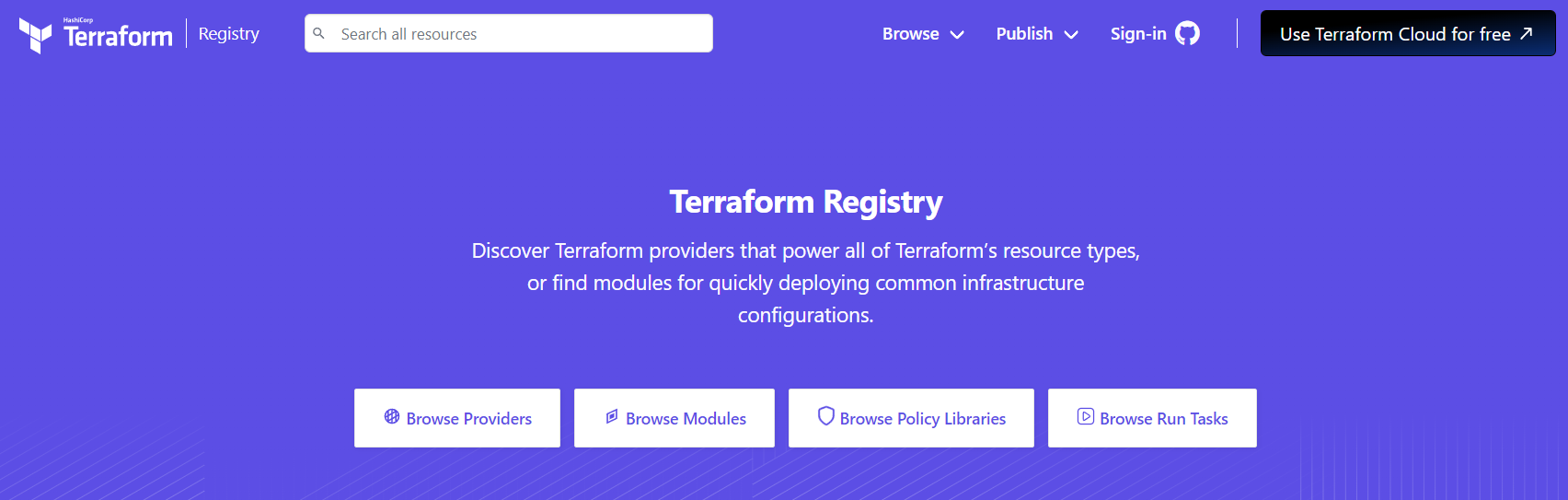
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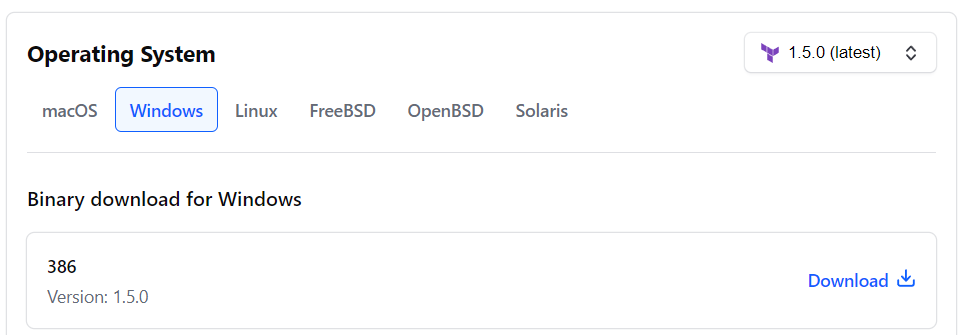
**Terraform registry;**

**“It is a place where we can find n numbers of modules, providers, it is open source and officially provided by terraform”**

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**Installation of terraform :**

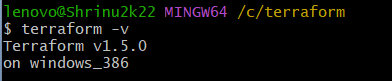
* **VISUAL STUDIO- it helps to write and execute at a same time/ Also it is open source tool**
* **Go to the official page** [**https://developer.hashicorp.com/terraform/downloads?ajs\_aid=eab86bec-fc46-4a32-ac7b-9885db566b41&product\_intent=terraform**](https://developer.hashicorp.com/terraform/downloads?ajs_aid=eab86bec-fc46-4a32-ac7b-9885db566b41&product_intent=terraform) **and download it by according to your OS;**

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* **Then we have to extract the files in “/C/ Directory” which we download in the official page and then we will get an executable terraform application and also we configure on env variables in window machine**

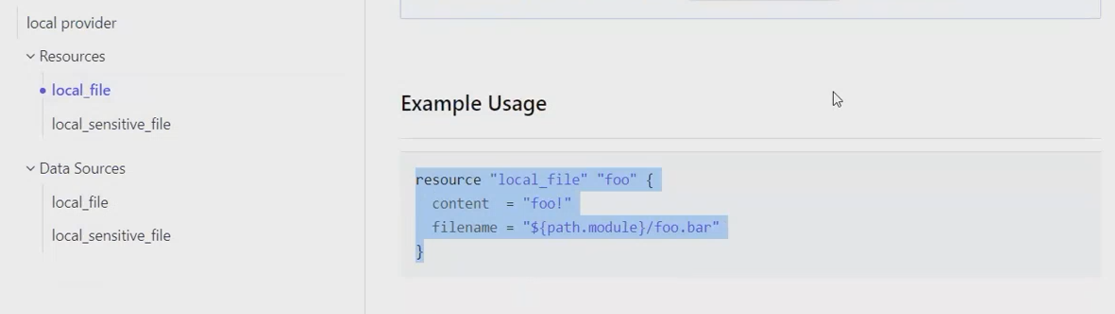
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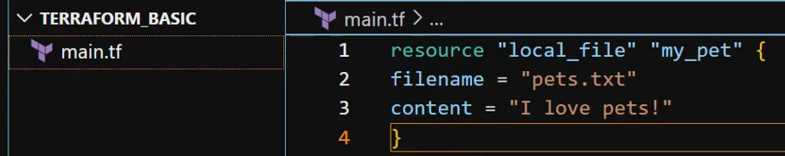
* **After that we can check on our terminal by terraform commands:**

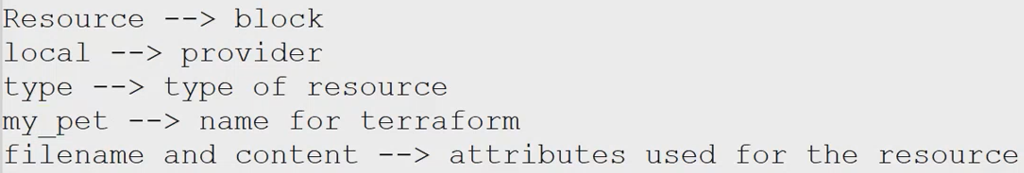
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**\*\* Terraform configurations with a sample-code:**

**With the help of terraform Registry we understand what should be give the provider**

****

****

****

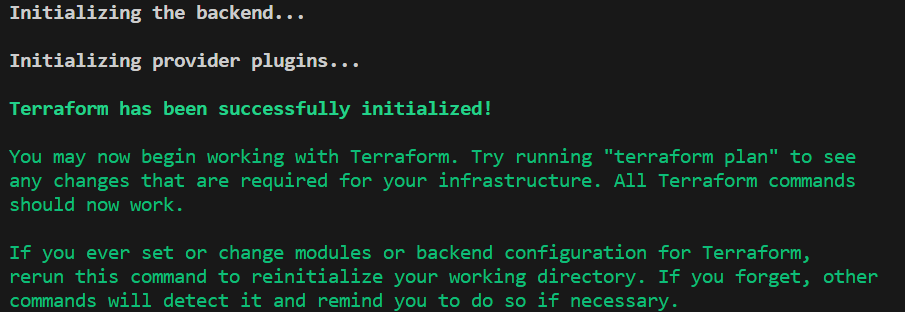
**Basic-Template:**

**BLOCK-TYPE PROVIDER RESOURCES-TYPE LOGICAL-NAME  
“resources” “local” “file” “my\_pet”**

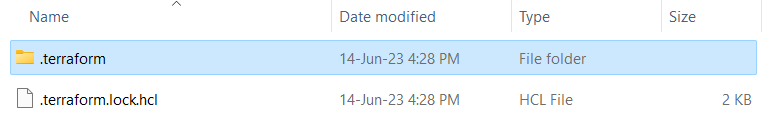
**ATTRIBUTES  
“filename” and “content”**

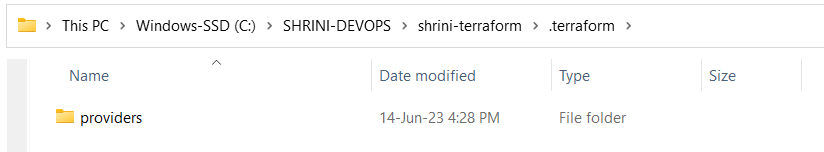
**After that we have to run “terraform init”**

* **It helps to download all the required dependencies**
* **And also will initialize our terraform folder**

****

**We will get below folder and files as dependencies;**

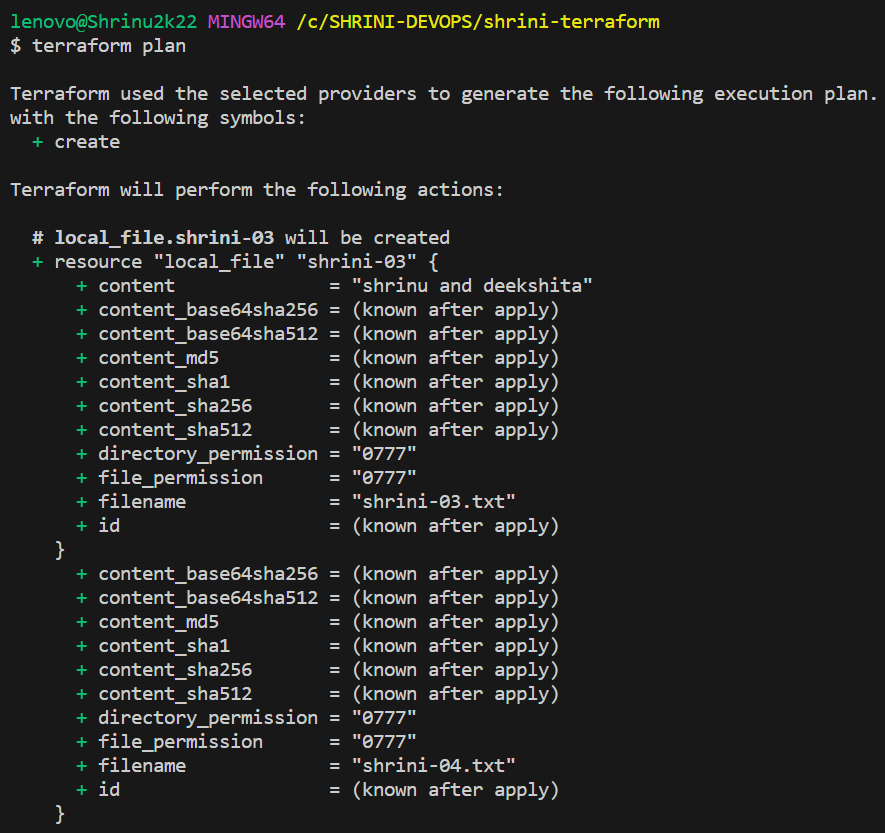
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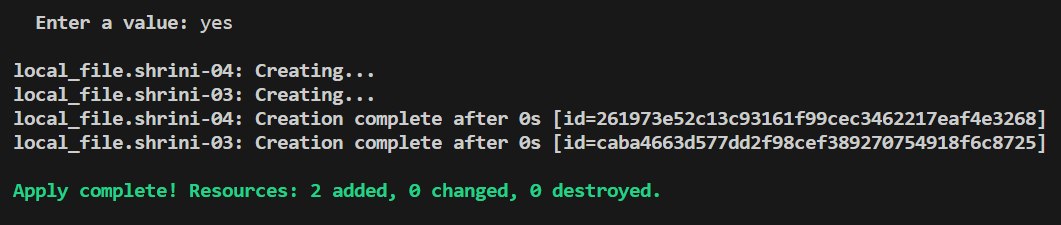
**There is a folder of providers;**

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**Resources like: AWS,AZURE,GCP,LOCAL**

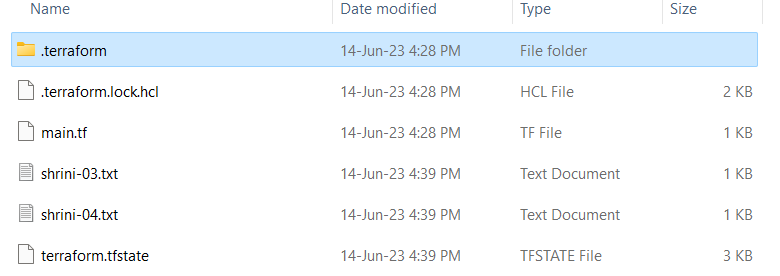
**Then, “terraform plan” It will only check the changes will be implemented/executed on Target server/machine  
**

**Terraform apply;  
it will ask for confirmation before making changes and also it gives “ID”**

**  
SYMBOLS IN TERRAFORM APPLY;**

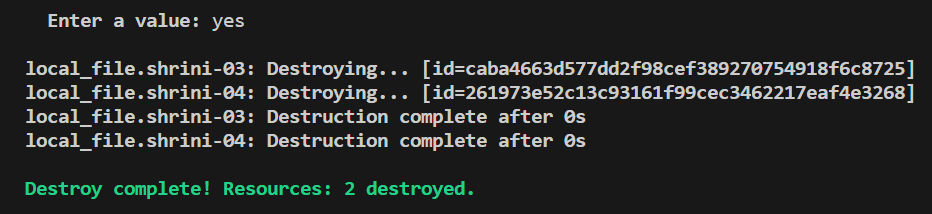
**+ : ADDED - : DELETED ~ : MODIFIED**

**While exceuting terraform apply command we will see another file named “state.tf”**

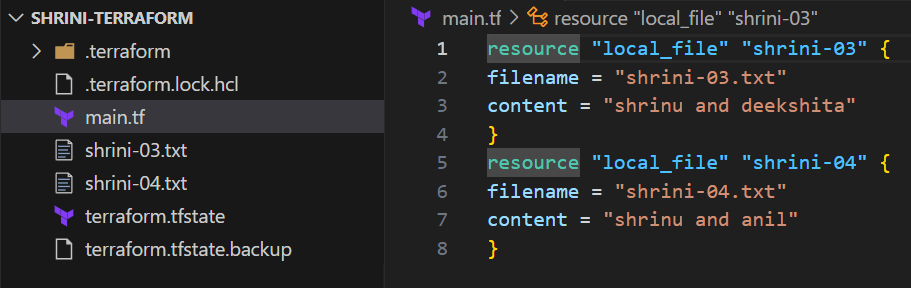
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**“**[**State.tf**](http://state.tf/)**is only contians the details of infra which we have created using terraform”**

**Terraform destroy: for deleting the file from our infra**

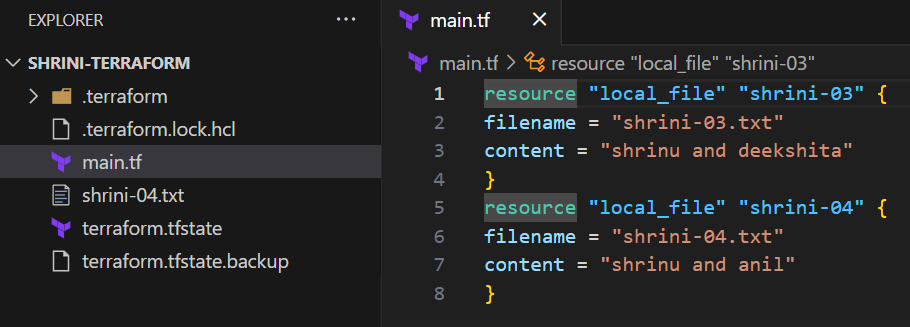
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**If we want to delete only one file from our infra then;**

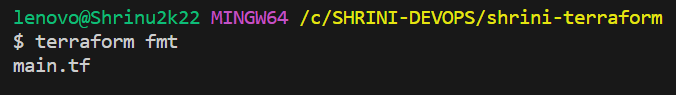
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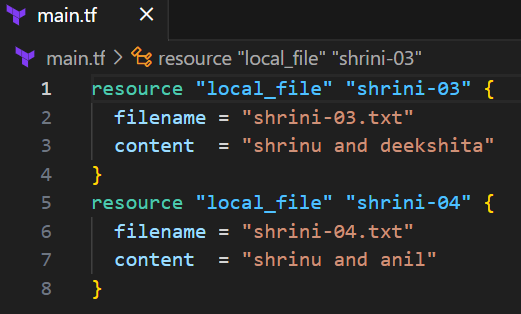
**For deleting single resources we will use :  
“terraform destroy –target”**

**“terraform destroy -target=local\_file.shrini-03”**

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**To give a format to our script we are using “terraform fmt”**

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