Name: DEEPA T

Date: 14.08.2025

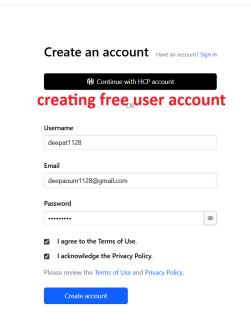
Batch: 11

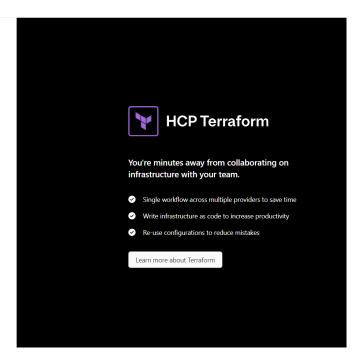
## **Terraform cloud:**

Log in to app.terraform.io and create free user account.

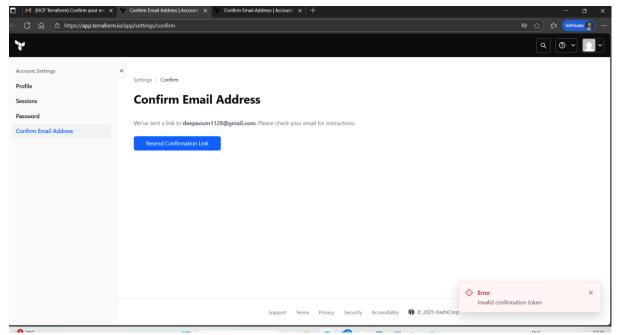
Username: deepat1128

Email: deepaoum1128@gmail.com



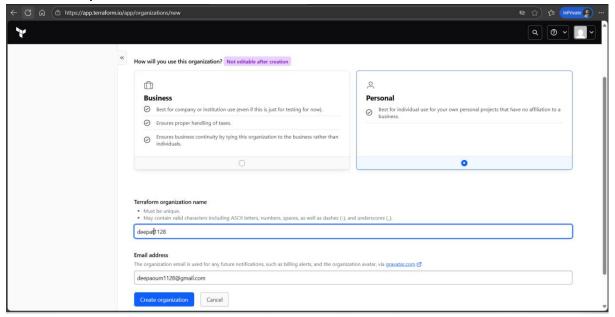


Email confirmation link is sent, link should be clicked in the gmail account.

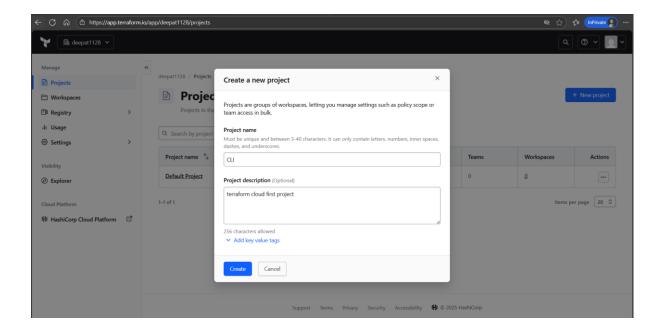


Now , successfully verifying gmail, New organization is created.

Name: deepat1128

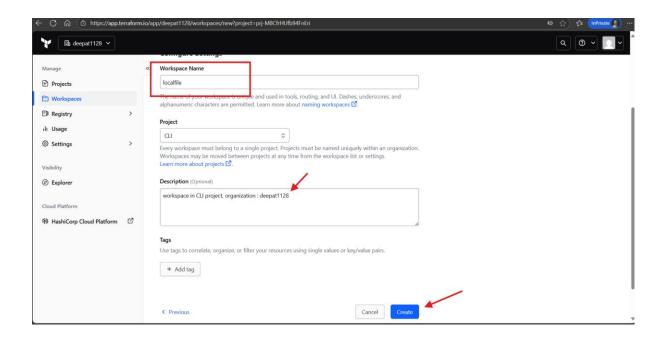


New project: CLI is created:

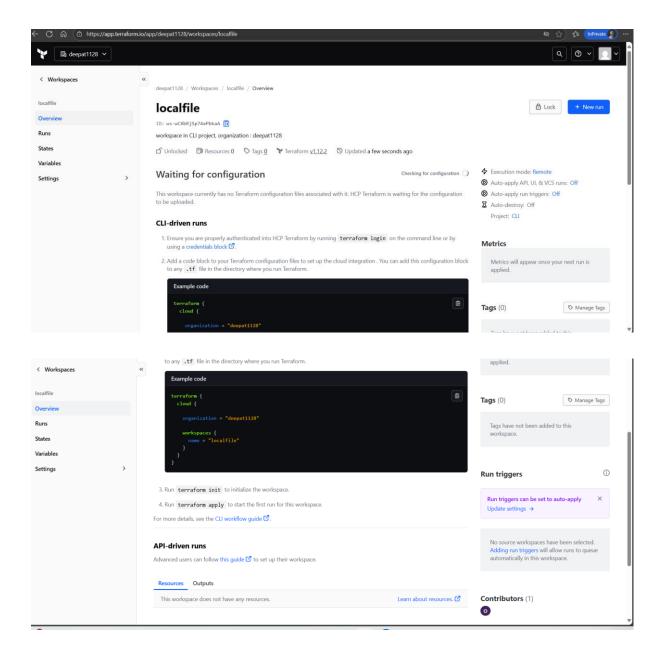


New workspace is created under the project:

Workspace name: localfile



Now to use the workspace, log in to terraform through cli in azure.



Log in to terraform in cli in azure:

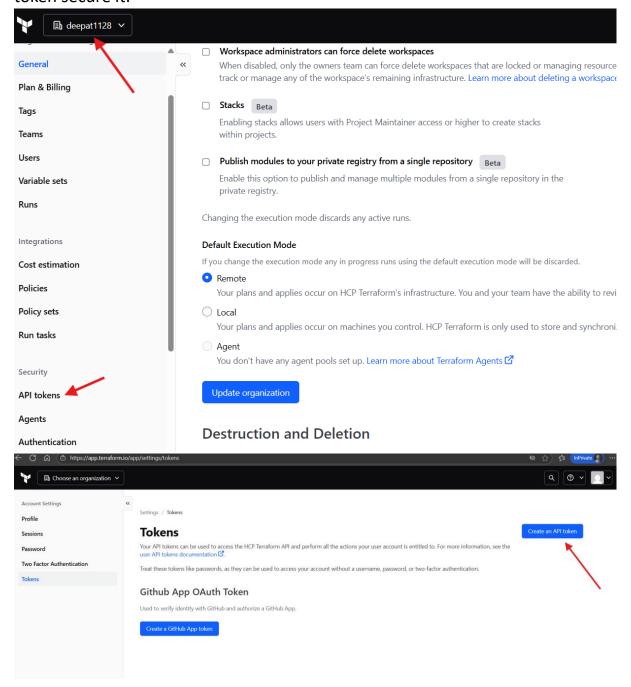
Before that in a folder name: terra\_cloud, create main.tf, variable.tf, and provider.tf files.

And give, Command: Terraform login

```
deepa [ ~ ]$ cd terra_cloud
deepa [ ~/terra_cloud ]$ mv /home/deepa/main.tf .
deepa [ ~/terra_cloud ]$ ls
main.tf
deepa [ ~/terra_cloud ]$ mv /home/deepa/variable.tf .
deepa [ ~/terra_cloud ]$ mv /home/deepa/provider.tf .
deepa [ ~/terra_cloud ]$ ls
main.tf provider.tf variable.tf
deepa [ ~/terra_cloud ]$ terraform login
```

After giving yes, it prompts for token for app.terraform.io

So now in app.terraform.io,  $\rightarrow$  settings  $\rightarrow$  API token  $\rightarrow$  user token  $\rightarrow$  Account settings page  $\rightarrow$  create API token  $\rightarrow$  CLI token  $\rightarrow$  generate token  $\rightarrow$  copy the token secure it.



```
Retrieved token for user deepat1128

Welcome to HCP Terraform!

Documentation: terraform.io/docs/cloud

New to HCP Terraform? Follow these steps to instantly apply an example configuration:

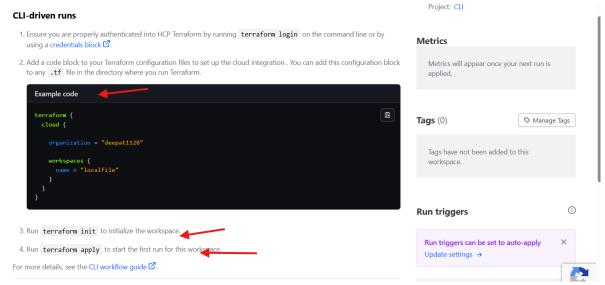
$ git clone https://github.com/hashicorp/tfc-getting-started.git
$ cd tfc-getting-started
$ scripts/setup.sh

deepa [ ~/terra_cloud ]$ []
```

#### Add the token in azure cli

So logged into terraform cloud with token:

Add the example code to cloud.tf file in terraform cloud directory 'cloud'



#### Terraform init:

Give service principle details(Tenant ID, Subscription ID, Client secret value, Client ID) now in provider.tf then continue.

```
deepa [ ~/terra_cloud ]$ vi cloud.tf

deepa [ ~/terra_cloud ]$ terraform init

Initializing HLP Ierraform...

Initializing provider plugins...

- Finding hashicorp/azurerm versions matching "4.37.0"...

- Installing hashicorp/azurerm v4.37.0...

- Installed hashicorp/azurerm v4.37.0 (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.

HCP Terraform has been successfully initialized!

You may now begin working with HCP Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure.

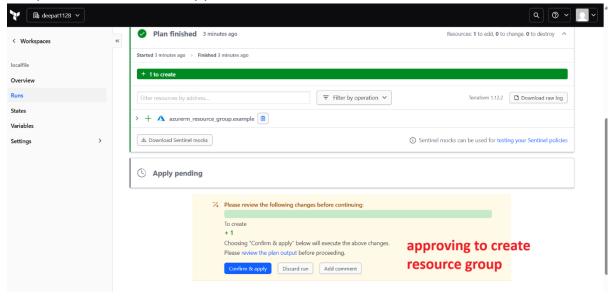
If you ever set or change modules or Terraform Settings, run "terraform init" again to reinitialize your working directory.
```

### Terraform plan:

## Terraform apply: It runs in the remote

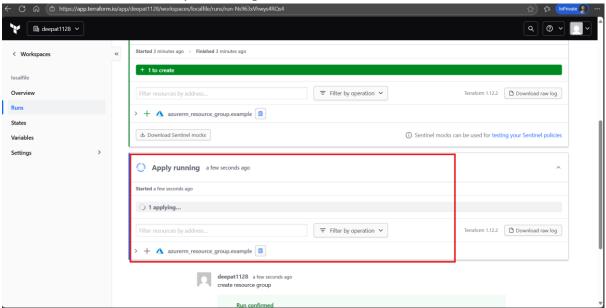
## In workspace localfile → view all runs → current run →

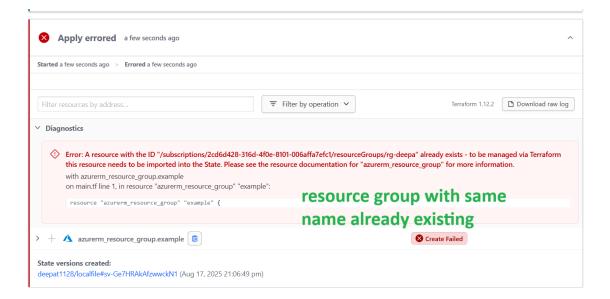
For plan, either we can approve in terraform azure or cloud



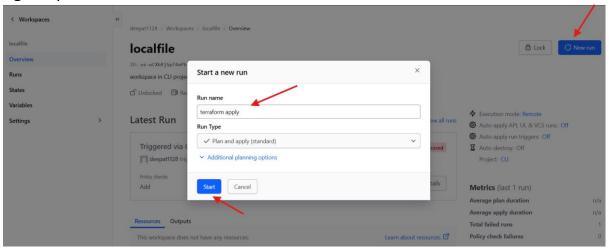
## Then it starts applying

Creates the resource as per configurations.

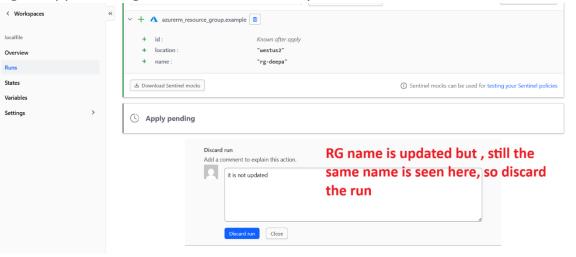


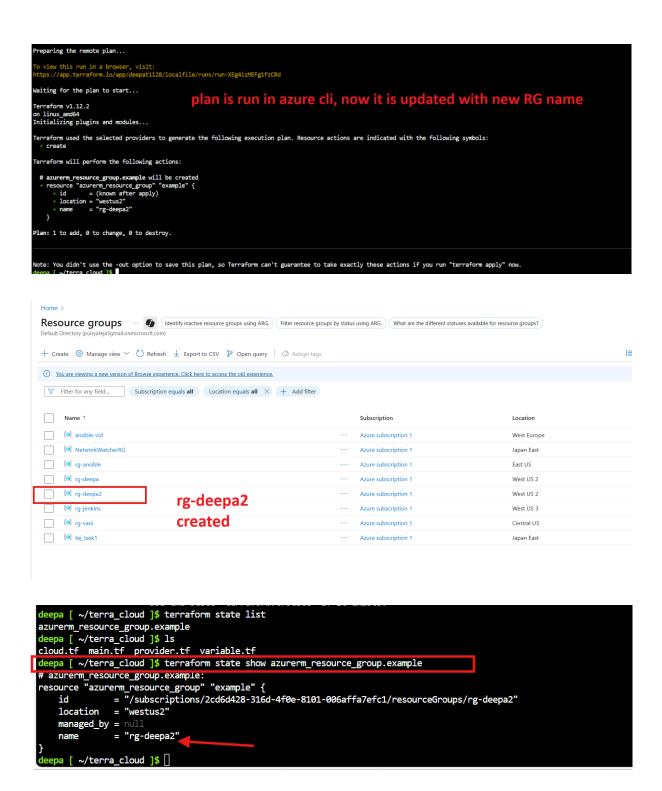


# Rename the resource group in variable.tf Rg-deepa2



Again approval is given in terra cloud only





State file is managed by terraform cloud. It is not seen in the azure cli.

#### View all runs:

