Exp: Creating Github Repo using Terraform

NOTE:

GitHub and Terraform Experiment: Pre-Experiment Checklist

GitHub Token:** Ensure you have a GitHub personal access token with appropriate permissions ('repo' scope) for accessing repositories.

Terraform Installation:** Confirm that Terraform is installed on your machine and is accessible via the command line.

Repository Naming:** Make sure the repository name you plan to create with Terraform does not already exist in your GitHub account or organization.

Environment Variables:** Set up any required environment variables, such as `GITHUB_TOKEN`, to authenticate with GitHub via Terraform.

Error Handling:** Be prepared to handle and troubleshoot any 404 errors or permission issues related to GitHub API calls.

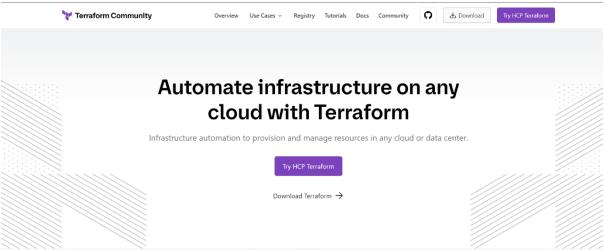
Editor Configuration: It's helpful to have GitHub configured with your editor (e.g., VS Code) for easier management of commits, pushes, and pulls directly from the editor.

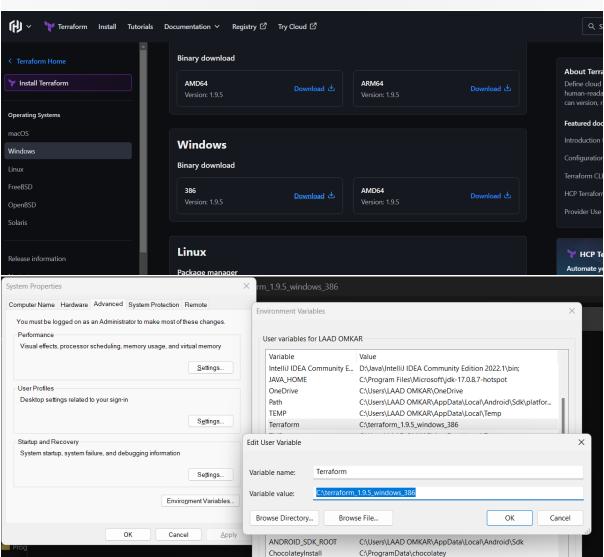
Refrences:

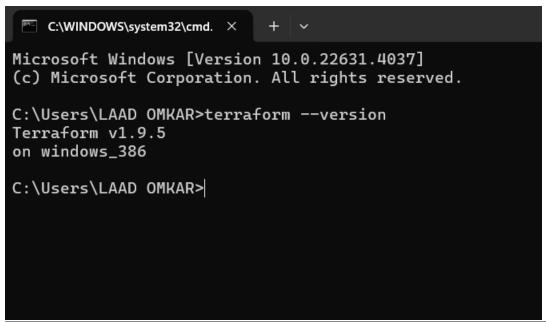
https://developer.hashicorp.com/terraform/install?product intent=terraform#windows

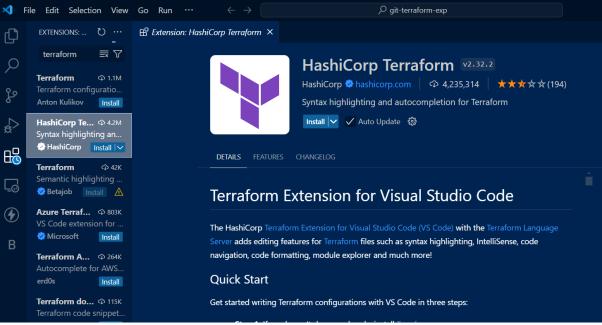
https://registry.terraform.io/providers/integrations/github/latest/docs

https://youtu.be/aHve0Ji13IY?si=ScHDfWw6dqfuoBxz









```
powershell +
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\git-terraform-exp> terraform init
Initializing the backend...
Initializing provider plugins...
- Finding integrations/github versions matching "~> 6.0"...
- Installing integrations/github v6.2.3...
- Installed integrations/github v6.2.3 (signed by a HashiCorp partner, key ID 38027F80D7FD5FB2)
Partner and community providers are signed by their developers.
If you'd like to know more about provider signing, you can read about it here:
https://www.terraform.io/docs/cli/plugins/signing.html
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.
PS C:\git-terraform-exp>
PS C:\git-terraform-exp> terraform validate
Success! The configuration is valid.
PS C:\git-terraform-exp> terraform plan
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
 + create
Terraform will perform the following actions:
 # github_repository.example will be created
   resource "github_repository" "example" {
     + allow_auto_merge
     + allow_merge_commit
                                = true
     + allow_rebase_merge
                                = true
     + allow_squash_merge
     + archived
                                = false
                                = (known after apply)
     + default branch
                                = false
     + delete_branch_on_merge
     + description
                                = "My awesome codebase"
     + etag
+ full_name
                                 = (known after apply)
                                 = (known after apply)
                                 = (known after apply)
     + git_clone_url
     + html_url
                                 = (known after apply)
     + http_clone_url
                                 = (known after apply)
                                 = (known after apply)
     + merge_commit_message
                                 = "PR_TITLE"
                                 = "MERGE_MESSAGE"
     + merge_commit_title
                                 = "example"
     + name
     + node_id
                                 = (known after apply)
     + primary_language
                                 = (known after apply)
                                 = (known after apply)
     + private
     + repo_id
                                 = (known after apply)
```

```
PS C:\git-terraform-exp> terraform apply
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
Terraform will perform the following actions:
 = (known after apply)
= (known after apply)
= (known after apply)
    + Tull_name
+ git_clone_url
+ html_url
+ http_clone_url
     + full_name
                             - (known after apply)
= (known after apply)
= (known after apply)
= "PR_TITLE"
= "MERGE_MESSAGE"
= "example"
     + id

+ merge_commit_message

+ merge_commit_title

+ name
     + node_id
                              = (known after apply)
                             = (known after apply)
= (known after apply)
     + primary_language
     + private
                               = (known after apply)
     + repo id
     + squash_merge_commit_message = "COMMIT_MESSAGES"
+ squash_merge_commit_title = "COMMIT_OR_PR_TITLE"
Plan: 1 to add, 0 to change, 0 to destroy.
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
github_repository.example: Creating...
github repository.example: Creation complete after 5s [id=example]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\git-terraform-exp>
```

