CI/Jenkins Setup

1) Download Automated Script
      wget https://atgensoft.com/training/ibm-terraform-19122022.zip

2) unzip ibm-terraform-19122022.zip

3) cd ibm-terraform-19122022

4) Give Permission
      chmod 755 ./jenkins_install.sh

5) Install Jenkins
      ./jenkins_install.sh

6) Finally, after the installation of Jenkins is complete you can visit the following Address in your browser http://IPAddress:8080 and install suggested plugins.

7) Install Plugins (if not already)
Manage Jenkins --> Manage Plugins —> Available
a) Git

8) Setup/Create AWS Credentials in **/etc/.aws/credentials** as below:

```
[default]
aws_access_key_id=AKIA3XF7PFRMFXKYEPO
aws_secret_access_key=PaU09+ltSpjzZFk4WBNXkW3M4uzchZ1zKYpbOUD
```


9) Create "terraformAWSDeploy" Job with following:

      Free Style Job Name: terraformAWSDeploy
      Source Code (Git):   https://github.com/sagarhere4u/terraform.git
      Poll SCM (Schedule) :   H/5 * * * *
      Build   :   Execute Shell

cd aws_webserver ; terraform init ; terraform validate ; sudo terraform plan ; sudo terraform apply --auto-approve

10) Create "terraformAWSDestroy" Job with following:

      Free Style Job Name: terraformAWSDestroy
      Source Code (Git):   https://github.com/sagarhere4u/terraform.git
      Build   :   Execute Shell

cd aws_webserver ; terraform init ; terraform validate ; sudo terraform plan ; sudo terraform destroy --auto-approve

11) Setup/Create Azure Credentials in **/etc/.azure/mycert.pfx**.

12) Set Env Variables in Jenkins

(Manage Jenkins -> Configure System -> Environment Variables)

```
ARM_SUBSCRIPTION_ID="e7f30c5-89ac-403d-82ed-0571261dea04"
ARM_CLIENT_ID="bb57971-d3f1-4055-bdd7-e456db2d807b"
ARM_TENANT_ID="df8f829-df8a-41fe-8679-3e0a616165c5"
```


13) Create "terraformAzureDeploy" Job with following:
     Free Style Job Name: terraformAzureDeploy
     Source Code (Git):   https://github.com/sagarhere4u/terraform.git
     Poll SCM (Schedule) :   H/5 * * * *
     Build   :   Execute Shell

cd azure_webserver ; terraform init ; terraform validate ; sudo terraform plan ; sudo terraform apply --auto-approve

14) Create "terraformAzureDestroy" Job with following:
     Free Style Job Name: terraformAzureDestroy
     Source Code (Git):   https://github.com/sagarhere4u/terraform.git
     Build   :   Execute Shell

cd azure_webserver ; terraform init ; terraform validate ; sudo terraform plan ; sudo terraform destroy --auto-approve