# Project 1: Jenkins + Docker Pipeline:

# Step 1: Updating the jenkins.

```
master@mastervm:-/jenkins-docker Q ≡ - σ ×

master@mastervm:-$ sudo apt update
[sudo] password for master:
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:2 https://pkg.jenkins.io/debian-stable binary/ Release [2,044 B]
Get:3 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:5 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:6 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
```

# Step 2: Installing the docker.

```
master@mastervm:~$ sudo apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (26.1.3-0ubuntu1~24.04.1).
The following package was automatically installed and is no longer required:
   python3-netifaces
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
```

## Step 3: Start and Enable the Docker

```
master@mastervm:-$ sudo systemctl start docker
master@mastervm:-$ sudo systemctl enable docker
master@mastervm:-$ sudo usermod -aG docker jenkins
```

## Step 4: Restarting the Jenkins

## master@mastervm:~\$ sudo systemctl restart jenkins

# Step 5: Checking the Docker Version.

```
master@mastervm:~$ docker --version

Docker version 26.1.3, build 26.1.3-Oubuntu1~24.04.1
```

#### Step 6: Configuring the ssh and restarting the ssh.

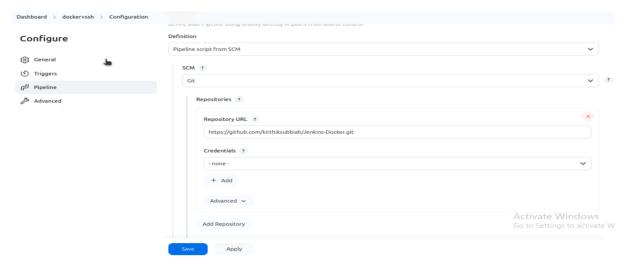
```
master@mastervm:~$ sudo nano /etc/ssh/sshd_config
master@mastervm:~$ sudo systemctl restart ssh
```

#### Step 7: ssh Master.

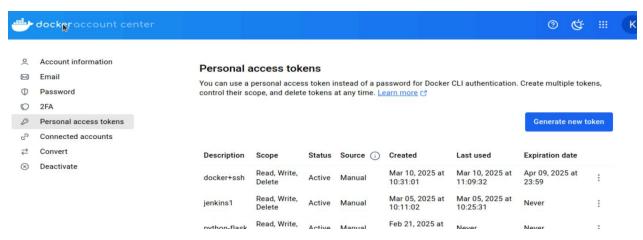
# Step 8: Cloning the Git

```
master@mastervm:-$ git clone https://github.com/KyathamRohith/jenkins-docker.git
Cloning into 'jenkins-docker'...
remote: Enumerating objects: 106, done.
remote: Counting objects: 100% (106/106), done. I
remote: Compressing objects: 100% (105/105), done.
remote: Total 106 (delta 33), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (106/106), 35.72 KiB | 1.02 MiB/s, done.
Resolving deltas: 100% (33/33), done.
```

## Step 9: Creating a Pipeline.



Step 10: Creating a Personal Access Token.



Step 11: End to End Pipeline from docker image to deployment.

