Devops Project - 1

1. Install the necessary software on the machines using a configuration management tool.

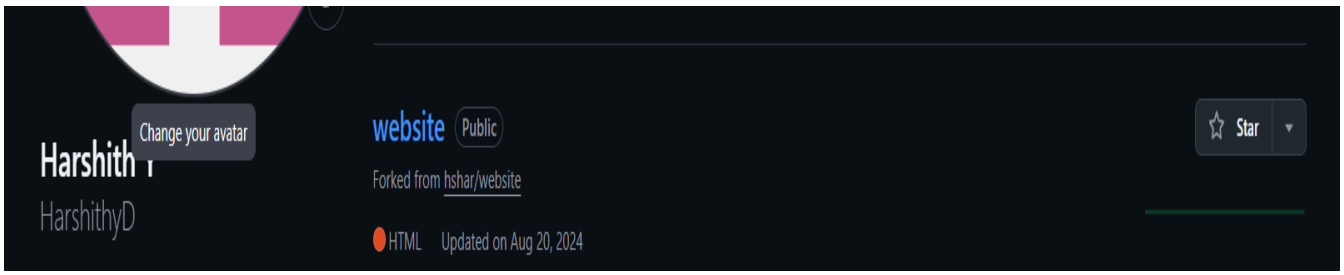
```
---
- name: task for master
  hosts: localhost
  become: true
  tasks:
  - name: executing script on master
    script: master.sh

- name: task for slave
  hosts: slave
  become: true
  tasks:
  - name: executing script on slave
    script: slave.sh
```

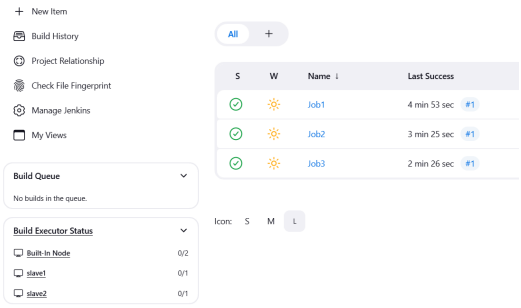
```
ubuntu@ip-172-31-15-45:~$ jenkins --version
2.498
ubuntu@ip-172-31-15-45:~$ java --version
openjdk 17.0.14 2025-01-21
OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-122.04.1)
OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-122.04.1, mixed mode, sharing)
```

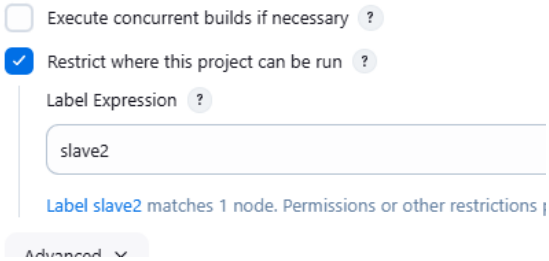
```
ubuntu@ip-172-31-0-151:~$ docker --version
Docker version 26.1.3, build 26.1.3-0ubuntu1~22.04.1
ubuntu@ip-172-31-0-151:~$ java --version
openjdk 11.0.26 2025-01-21
OpenJDK Runtime Environment (build 11.0.26+4-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.26+4-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
```

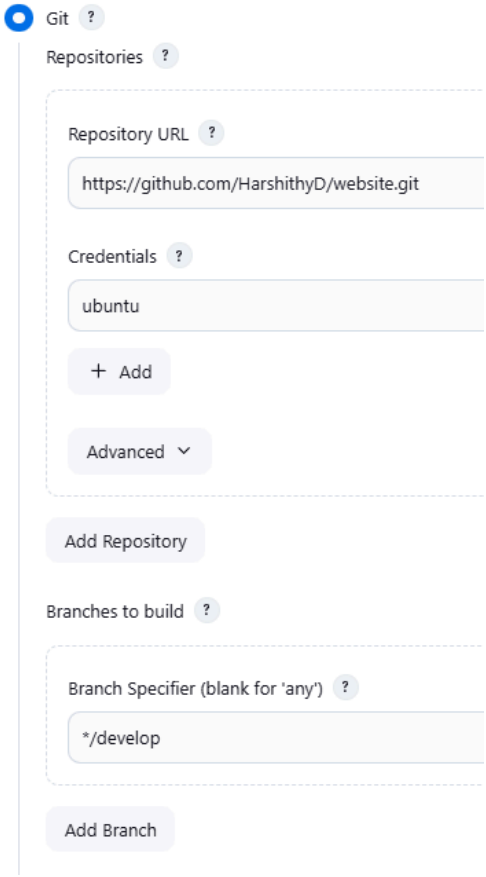
2. Git Workflow has to be implemented

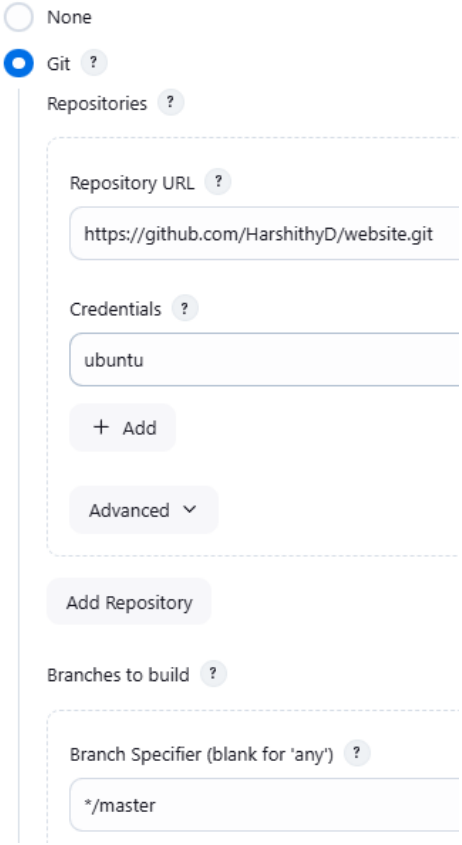


3.Code Build should automatically be triggered once commit is made to master branch or develop branch. If commit is made to master branch, test and push to prod If commit is made to develop branch, just test the product, do not push to prod









4.The Code should be containerized with the help of a Dockerfile. The Dockerfile should bebuilt every time there is a push to Git-Hub.
Use the following pre-built container for your application: hshar/webapp
The code should reside in '/var/www/html'

master website / Dockerfile

HarshithyD Create Dockerfile

Code Blame 5 lines (5 loc) · 109 Bytes Code 5

```
1  FROM Ubuntu
2  RUN apt update
3  RUN apt install apache2 -y
4  ADD . /var/www/html
5  ENTRYPOINT apachectl -D FOREGROUND
```

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and dep

Execute shell ?

Command

See the list of available environment variables

```
sudo docker build . -t image1
sudo docker run -itd -p --name C1 81:80 image1
```

Not secure http://3.17.76.11:82

Hello world!

Not secure http://3.17.76.11:83

Hello world!

Not secure http://18.119.111.218:84

Hello world!