

#Step 0 : install ngrok and forward url

ngrok http 8080 —use forwarding url for open Jenkins .

#Step 1 install

Install jenkins and jdk

```
curl -fsSL https://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee \  
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

```
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \  
https://pkg.jenkins.io/debian binary/ | sudo tee \  
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

```
sudo apt update
```

```
sudo apt install jenkins -y
```

#Step 2 :

Start and Enable Jenkins Service

```
sudo systemctl start jenkins  
sudo systemctl enable jenkins
```

Check status:

```
sudo systemctl status jenkins
```

If everything is fine, it should show **active (running)**.

#Step 3:

Access Jenkins Web Interface

for local machine:

Use Forwarding URL from NGROK

Get the Initial Admin Password

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

User name : kkwagh

Password : acs@02

#Jenkins Project Setup

Create project ----> Free Style ----> Source Code Management----> select git -----> add repo url --> select branch ----> Triggers ---> tik GitHub hook trigger for GITScm polling--->apply and save.

#Git hub setups

Open Project ---> go to settings --> left side option webhook --> Add webhook ----> in webhook enter payload URL --- content type --> JSON --- > send me everything --> add webhook