## CI/CD: Note-App Deployment using Declarative Pipeline

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#### **AWS EC2 Instance**

- Go to AWS Console
- Select ubuntu Operating system
- Instances(running)
- Launch instances

GitHub URL: <a href="https://github.com/RitikPyCode/django-notes-app">https://github.com/RitikPyCode/django-notes-app</a>



```
ubuntu@ip-172-31-40-193:~$ git clone https://github.com/RitikPyCode/django-notes-app.git Cloning into 'django-notes-app'...
remote: Enumerating objects: 348, done.
remote: Counting objects: 100% (57/57), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 348 (delta 40), reused 23 (delta 16), pack-reused 291
Receiving objects: 100% (348/348), 1.68 MiB | 13.57 MiB/s, done.
Resolving deltas: 100% (88/88), done.
ubuntu@ip-172-31-40-193:~$
ubuntu@ip-172-31-40-193:~$
ubuntu@ip-172-31-40-193:~$
ubuntu@ip-172-31-40-193:~$
ubuntu@ip-172-31-40-193:~$
```

```
ubuntu@ip-172-31-40-193:~$ cd django-notes-app/
ubuntu@ip-172-31-40-193:~/django-notes-app$ ls

Dockerfile README.md db.sqlite3 manage.py notesapp requirements.txt

'Project code' api docker-compose.yml mynotes procfile staticfiles
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ sudo apt-get update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ sudo apt install docker.io

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:
    bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan

Suggested packages:
    ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils

The following NEW packages will be installed:
    bridge-utils containerd dns-root-data dnsmasg-base docker.io pigz runc ubuntu-fan
```

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ docker --version Docker version 20.10.21, build 20.10.21-0ubuntu1~22.04.3 ubuntu@ip-172-31-40-193:~/django-notes-app$
```

### **Ubuntu has not docker permission:**

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ docker ps
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2F
1.24/containers/json": dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-40-193:~/django-notes-app$ whoami
ubuntu@ip-172-31-40-193:~/django-notes-app$
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

We need to modify the user permission and append the ubuntu user in docker group:

Then reboot your system once and wait for few minutes.

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ sudo usermod -aG docker $USER
```

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ sudo reboot ubuntu@ip-172-31-40-193:~/django-notes-app$
```

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ ls
Dockerfile
                README.md
                            db.sqlite3
                                                                         requirements.txt
                                                 manage.py
                                                              notesapp
'Project code'
                            docker-compose.yml
                                                 mynotes
                                                              procfile
                                                                         staticfiles
                api
ubuntu@ip-172-31-40-193:~/django-notes-app$ cat Dockerfile
FROM python:3.9
WORKDIR /app/backend
COPY requirements.txt /app/backend
RUN pip install -r requirements.txt
COPY . /app/backend
EXPOSE 8000
CMD python /app/backend/manage.py runserver 0.0.0.0:8000
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

#### Docker file:

FROM python:3.9

WORKDIR /app/backend

COPY requirements.txt /app/backend

RUN pip install -r requirements.txt

COPY . /app/backend

EXPOSE 8000

CMD python /app/backend/manage.py runserver 0.0.0.0:8000

#### We have successfully built.

#### Jenkins Installation Pre-requisites.

sudo apt update sudo apt install openjdk-17-jre java -version sudo apt-get update

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ java -version
openjdk version "17.0.7" 2023-04-18
OpenJDK Runtime Environment (build 17.0.7+7-Ubuntu-Oubuntu122.04.2)
OpenJDK 64-Bit Server VM (build 17.0.7+7-Ubuntu-Oubuntu122.04.2, mixed mode, sharing)
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

#### **Installation of Jenkins**

curl -fsSL https://pkg.jenkins.io/debian-stable/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-stable binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install Jenkins

service Jenkins status

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ service jenkins status

• jenkins.service - Jenkins Continuous Integration Server

Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)

Active: active (running) since Mon 2023-07-10 19:21:21 UTC; 58s ago

Main PID: 5902 (java)

Tasks: 44 (limit: 1141)

Memory: 289.6M

CPU: 38.728s

CGroup: /system.slice/jenkins.service

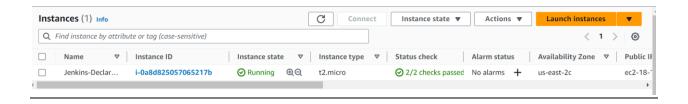
—5902 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080
```

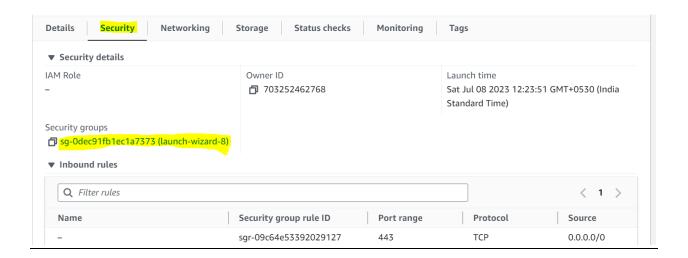
Now you need to go to your Brower and paste the public IP address of your server eg: <a href="http://Publicl:8080/">http://Publicl:8080/</a>

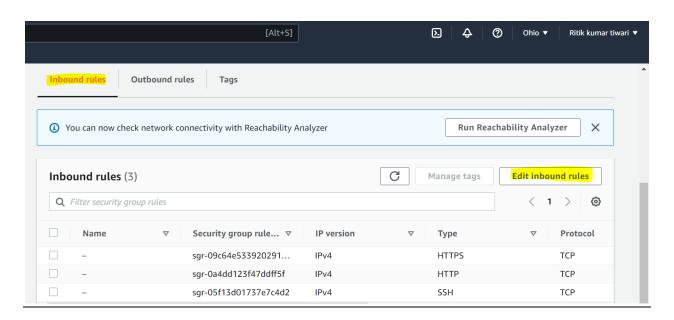
Jenkins runs on 8080 port.

If port is not enabled, then you need to enable that port: 3000 on your aws security group:

# Steps:

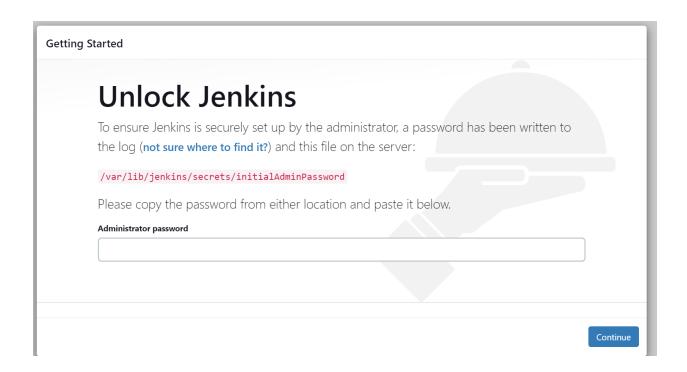








Paste it on your browser: http://Publicl:8080/



Copy and Cat this command with sudo permission:
/var/lib/jenkins/secrets/initialAdminPassword, you will get initial password.

ubuntu@ip-172-31-40-193:~/django-notes-app\$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword 5c3d4da49bdb41d0b005456e08c0d49b ubuntu@ip-172-31-40-193:~/django-notes-app\$

Please copy the password from either location and paste it below.

Administrator password

Select suggested.

#### **Getting Started**

**Customize Jenkins** 

Plugins extend Jenkins with additional features to support many different needs.

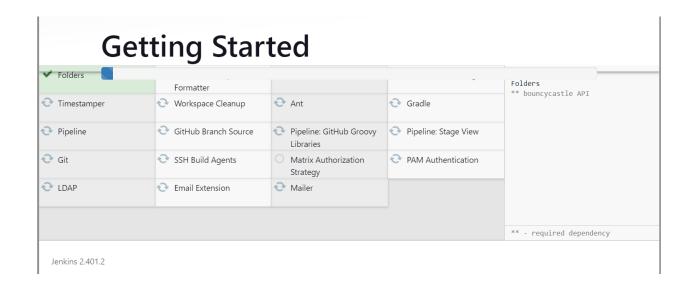
Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.401.2



### Create your username and Password:

Getting Sta	arted		
	Create First Admin User		
	Username		
	Password		
	Confirm password		
Jenkins 2.401.2	2	Skip and continue as ac	Save and Continue
	Confirm password		
	Full name		
	Ritik kumar tiwari		
	E-mail address		
	2018ritik @gmail.com		
Jenkins 2.401.2		Skip and continue as ac	Min Save and Continue

### Save and Finish

#### **Getting Started**

# **Instance Configuration**

Jenkins URL:

http://18.117.216.230:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD\_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.401.2

Not now

Save and Finish

### **Start using Jenkins**

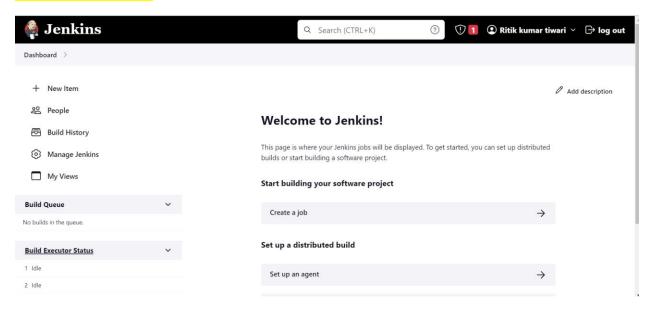
#### **Getting Started**

# Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

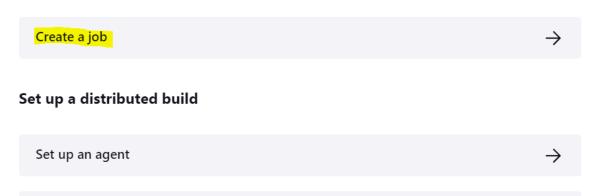
### **Dashboard layout**

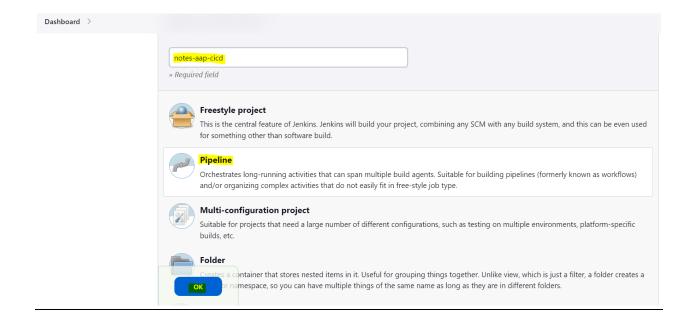


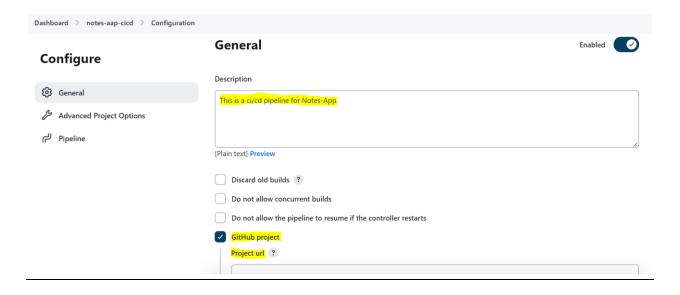
### Welcome to Jenkins!

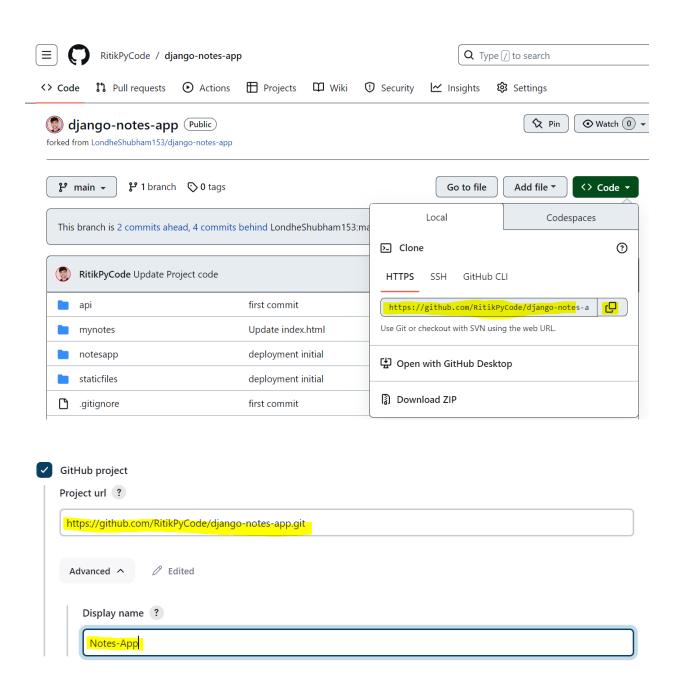
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

#### Start building your software project









#### **Build Triggers**

	Build after other projects are built ?
	Build periodically ?
<b>~</b>	GitHub hook trigger for GITScm polling ?
	Poll SCM ?
	Quiet period ?

Trigger builds remotely (e.g., from scripts) ?

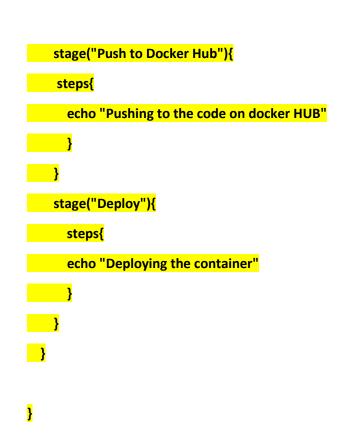
This is pipeline structure, where all steps are there. Code, Build, push to Docker Hub, Deploy

```
Script ?
 1 ▼ pipeline {
                                                                                              try sample Pipeline... 🗸
           agentany
           stages{
   4 =
              stage("Code"){
   6 =
   8
               stage("Build"){
   10
              stage("Push to Docker Hub"){
   13
   14
               stage("Deploy"){
   15 🔻
  16
   17
   18
```

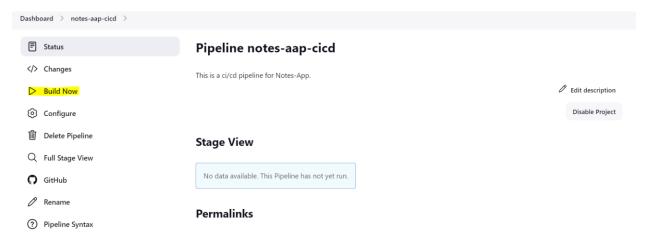
This is Groovy syntax, and it's the structure of Declarative Pipeline, Let me show you the output of every stages.

```
Script ?
    1 ₹ pipeline {
             agent any
       4 =
             stages{
       6 =
                 stage("Code"){
       7 =
                 steps{
                    echo "Cloning the code from github"
       8
       9
      10
      11 =
                 stage("Build"){
      12 🕶
                   steps{
                       echo "Building the Images"
      13
      14
      15
      16 🕶
                 stage("Push to Docker Hub"){
      17 =
                    echo "Pushing to the code on docker HUB"
      18
      19
      20
                 stage("Deploy"){
      21 🔻
      22 🕶
                    steps{
echo "Deploying the container"
      23
      24
      25
                 Apply
pipeline {
 agent any
 stages{
    stage("Code"){
  steps{
  echo "Cloning the code from github"
  stage("Build"){
  steps{
```

echo "Building the Images"



#### Click on Build Now,



### Code, Build, Push to Docker HUB, Deploy

### **Stage View**



**Permalinks** 

Finally, Demo has been completed.

Check now if your pipeline running fine. Because we have to check every stage. If we get any error, we will do troubleshooting no problem.

#### **SAVE and BULD NOW**

#### **Cloning the Code**

```
pipeline {
    agent any

stages{

    stage("Code"){
    steps{
        echo "Cloning the code from github"
            git url:"https://github.com/RitikPyCode/django-notes-app.git", branch:"main"
        }
    }
    stage("Build"){
```

```
steps{
        echo "Building the Images"
        sh "docker build -t my-note-app ."
      }
    }
    stage("Push to Docker Hub"){
    steps{
      echo "Pushing to the code on docker HUB"
}
      }
    stage("Deploy"){
      steps{
      echo "Deploying the container"
      }
}
```

### **Stage View**



First Stage has been completed successfully.

#### /var/lib/jenkins/workspace/notes-aap-cicd

```
Started by user Ritik kumar tiwari
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/notes-aap-cicd
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Code)
Building the Images
[Pipeline] sh
+ docker build -t my-note-app .
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post
"http://%2Fvar%2Frun%2Fdocker.sock/v1.24/build?
buildargs=%7B%7D&cachefrom=%5B%5D&cgroupparent=&cpuperiod=0&cpuquota=0&cpusetcpus=&cpusetmems=&cpushares=0&docker
file=Dockerfile&labels=%7B%7D&memory=0&memswap=0&networkmode=default&rm=1&shmsize=0&t=my-note-
app&target=&ulimits=null&version=1": dial unix /var/run/docker.sock: connect: permission denied
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
```

### Go to this path /var/lib/jenkins/workspace/notes-aap-cicd . all files are here.

```
ubuntu@ip-172-31-40-193:~$ cd /var/lib/jenkins/workspace/notes-aap-cicd
ubuntu@ip-172-31-40-193:/var/lib/jenkins/workspace/notes-aap-cicd$ ls
Dockerfile README.md db.sqlite3 manage.py notesapp requirements.txt
'Project code' api docker-compose.yml mynotes procfile statiofiles
ubuntu@ip-172-31-40-193:/var/lib/jenkins/workspace/notes-aap-cicd$
```

ubuntu@ip-172-31-40-193:/var/lib/jenkins/workspace/notes-aap-cicd\$ sudo usermod -aG docker jenkins ubuntu@ip-172-31-40-193:/var/lib/jenkins/workspace/notes-aap-cicd\$ sudo reboot ubuntu@ip-172-31-40-193:/var/lib/jenkins/workspace/notes-aap-cicd\$

#### sudo usermod -aG docker jenkins

sudo reboot

Please refresh the Jenkins software then build now again, you will pass all the stages successfully.



```
Started by user Ritik kumar tiwari

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Jenkins in /var/lib/jenkins/workspace/notes-aap-cicd

[Pipeline] {

[Pipeline] stage

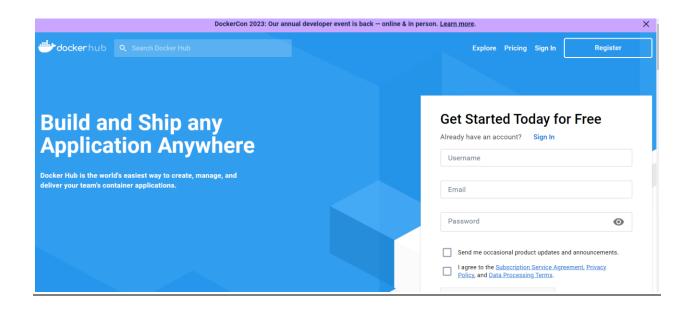
[Pipeline] { (Code)
```

### **Stage View**

	Code	Build	Push to Docker Hub	Deploy
Average stage times: (Average <u>full</u> run time: ~10s)	759ms	3s	98ms	92ms
Jul 11 No Changes	1s	18s	103ms	101ms

Now Pushing the code from DOCKER HUB.

First you have to sign In or Signup yourself on docker hub: <a href="https://hub.docker.com/">https://hub.docker.com/</a>





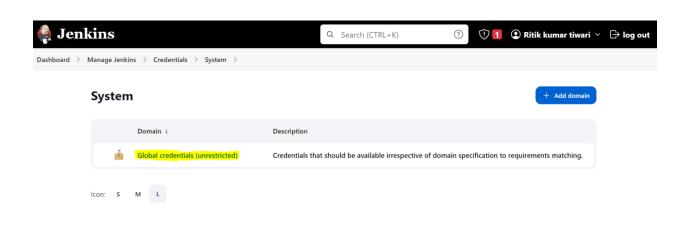
#### Draw-back related credentials, issue has been resolved below:

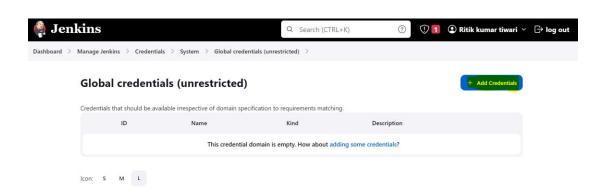
sh "docker login", then creds but if we type all the creds then it will be publicly, then we have devops concept: environment variable, it will not show you your creds.

First go to Jenkins Dashboard > Manage Jenkins > Security: Credentials > click on system

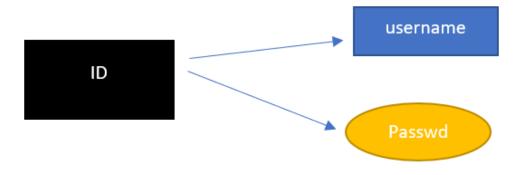
#### Stores scoped to Jenkins







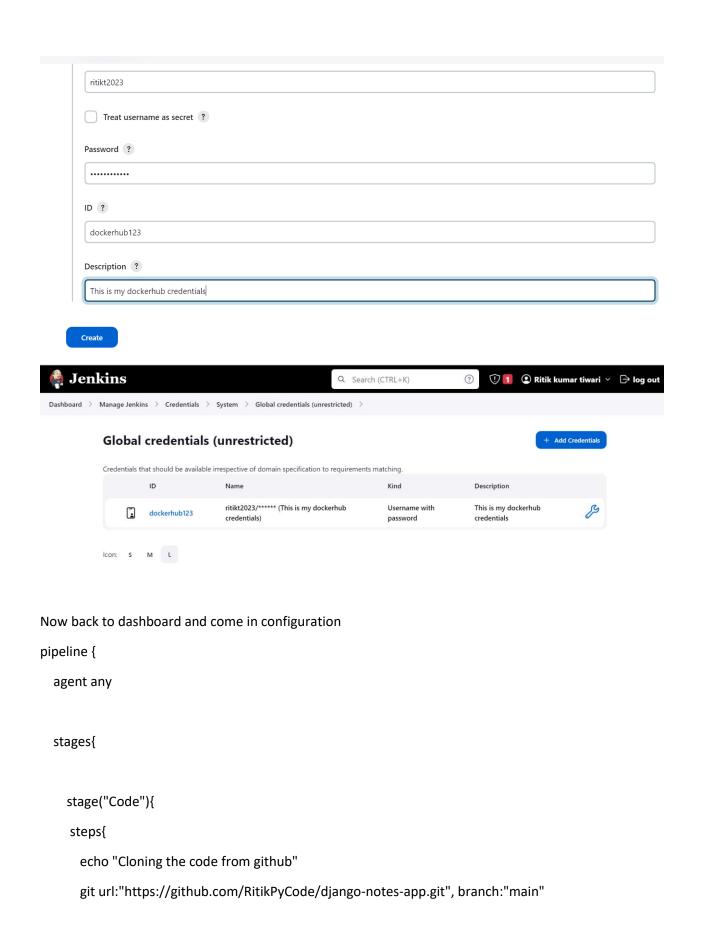
We need to assign ID for username and password, because if anyone ask then we can give our ID no. which contains username and password.





#### **New credentials**





```
}
    }
    stage("Build"){
      steps{
        echo "Building the Images"
        sh "docker build -t my-note-app ."
      }
    }
    stage("Push to Docker Hub"){
 steps{
   echo "Pushing to the code on docker HUB"
      withCredentials([usernamePassword(credentialsId:"dockerhub123", passwordVariable:
"dockerhubPass", usernameVariable:"dockerhubUser")]){
      sh "docker login -u ${env.dockerhubUser} -p ${env.dockerhubPass}"
    stage("Deploy"){
      steps{
      echo "Deploying the container"
      }
    }
  }
}
```

#### **Stage View**

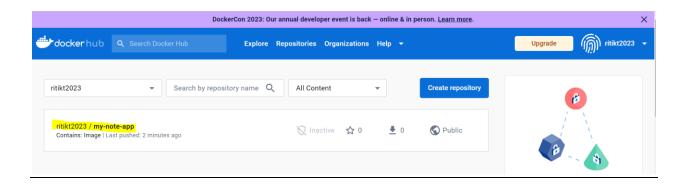


#### Now we are going to push our image on docker hub using declarative pipeline.

```
pipeline {
  agent any
  stages{
    stage("Code"){
    steps{
      echo "Cloning the code from github"
      git url:"https://github.com/RitikPyCode/django-notes-app.git", branch:"main"
      }
    }
    stage("Build"){
      steps{
        echo "Building the Images"
        sh "docker build -t my-note-app ."
      }
    stage("Push to Docker Hub"){
```

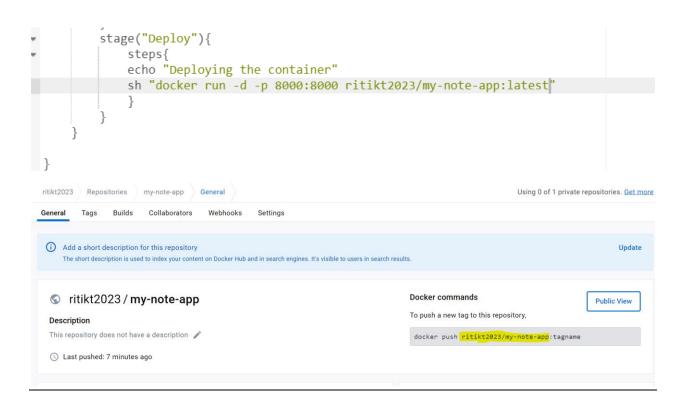
```
steps{
      echo "Pushing to the code on docker HUB"
      withCredentials([usernamePassword(credentialsId:"dockerhub123", passwordVariable:
"dockerhubPass", usernameVariable: "dockerhubUser")]){
      sh "docker tag my-note-app ${env.dockerhubUser}/my-note-app:latest" (we have to tag our old
image then add usename)
      sh "docker login -u ${env.dockerhubUser} -p ${env.dockerhubPass}"
      sh "docker push ${env.dockerhubUser}/my-note-app:latest"
      }
    stage("Deploy"){
      steps{
      echo "Deploying the container"
      }
}
```

#### Now refresh your docker hub website:



### **Stage Deploy:**

sh "docker run -d -p 8000:8000 ritikt2023/my-note-app:latest"



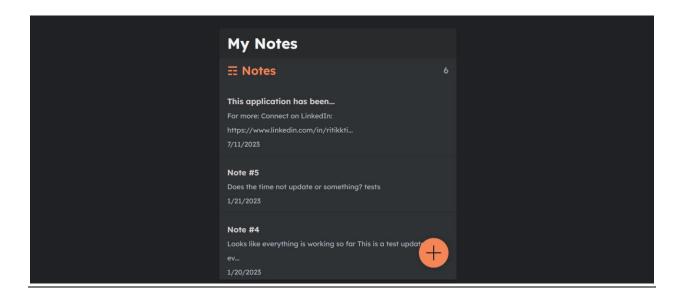
#### Add 8000 port where your application will run.

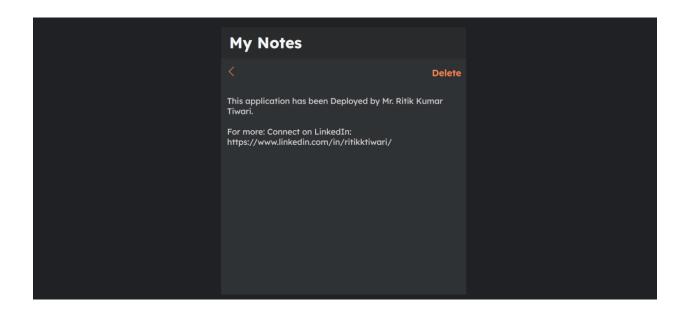
sgr-0818b93bcc461c925	Custom TCP	•	TCP	8000	Custom ▼	Q	Dele
						49.36.171.135/ X 32	te

### **Stage View**

	Code	Build	Push to Docker Hub	Deploy	
Average stage times: (Average <u>full</u> run time: ~11s)	768ms	3s	2s	295ms	
#13  Jul 11  03:37  No Changes	666ms	1s	5s	1s	

Application has been deployed. You can check with your public Ip address with 8000 ports. Eg: http://18.117.216.230:8000/





If you are going to build now again then pipeline will get failed. The reason is Port is already allocated

### **Stage View**

	Code	Build	Push to Docker Hub	Deploy
Average stage times: (Average <u>full</u> run time: ~11s)	765ms	3s	2s	339ms
#14  Jul 11  03:44  No Changes	742ms	2s	5s	691ms

## 

+ docker run -d -p 8000:8000 ritikt2023/my-note-app:latest
d152e277452511e1b64d912d0ee2e256086e0548054d01192bfff60220a02c3b
docker: Error response from daemon: driver failed programming external connectivity on endpoint clever\_wescoff
(29b80c912703e74ebb29884312baf342a1504b77b443bdd2cc17099abf5656ee): Bind for 0.0.0.0:8000 failed: port is already
allocated.

**Docker Compose** is a tool that was developed to help define and share multi-container applications. With Compose, we can create a YAML file to define the services and with a single command, can spin everything up or tear it all down.

#### Install the DOCKER-COMPOSE

#### sudo apt-get install docker-compose

```
ubuntu@ip-172-31-40-193:/$ sudo apt-get install docker-compose
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
   python3-docker python3-dockerpty python3-docopt python3-dotenv python3-texttable python3-websocket
The following NEW packages will be installed:
   docker-compose python3-docker python3-dockerpty python3-docopt python3-dotenv python3-texttable python3-websocket
0 upgraded, 7 newly installed, 0 to remove and 75 not upgraded.
Need to get 290 kB of archives.
```

```
ubuntu@ip-172-31-40-193:/$ docker-compose -version docker-compose version 1.29.2, build unknown ubuntu@ip-172-31-40-193:/$
```

#### It's type of yml file where are the things are explained.

```
Code Blame 6 lines (6 loc) · 86 Bytes

1     version : "3.3"
2     services :
3     web :
4     build : .
5     ports :
6     - "8000:8000"
```

Container or image ko down kiya aur phir up kiya inhi code se.

# If we are going to run that application with the help of docker-compose what will happen, it will throw error,

```
ubuntu@ip-172-31-40-193:~/django-notes-app$ docker-compose up -d
Creating network "django-notes-app_default" with the default driver
Building web
Sending build context to Docker daemon 8.389MB
Step 1/7: FROM python:3.9
---> 1d7821476b67
Step 2/7: WORKDIR /app/backend
---> Using cache
```

#### for this error we need to kill running container.

```
ERROR: for django-notes-app_web_1 Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 920397336b9aab01f6291ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad885d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab01 91ef6accd4034eeela0e51c6292ad85d17124365203): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-notes-app_web_1 (9920397336b9aab0192): Bind for 0.0.0:8000 failed: port is already allocated

ERROR: for web Cannot start service web: driver failed programming external connectivity on endpoint django-n
```

#### Now run docker-compose up -d, this will decide automatically, image or container name.

```
ubuntu@ip-172-31-40-193:-/django-notes-app$ docker-compose up -d
Starting django-notes-app web 1 ... done
ubuntu@ip-172-31-40-193:-/django-notes-app$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
df250b605130 django-notes-app_web "/bin/sh -c 'python ..." 5 minutes ago Up 17 seconds 0.0.0.0:8000->8000/tcp, :::8000->8000/tcp django-notes-app_web_1
ubuntu@ip-172-31-40-193:-/django-notes-app$
```

#### Now there is no container after down

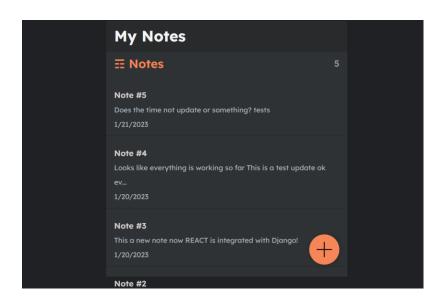
```
ubuntu@ip-172-31-40-193:~/django-notes-app$ docker-compose down
Stopping django-notes-app_web_1 ... done
Removing django-notes-app_web_1 ... done
Removing network django-notes-app_default
ubuntu@ip-172-31-40-193:~/django-notes-app$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-40-193:~/django-notes-app$
```

This is the solution of above error. Let me add this code in groovy syntax.

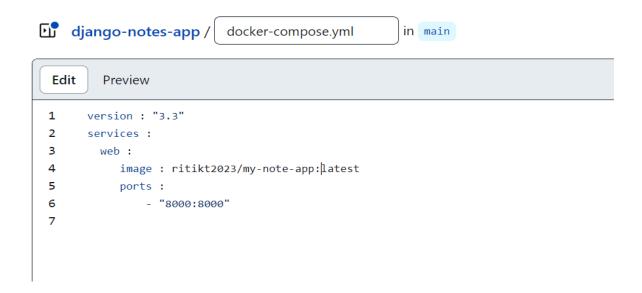
```
stage("Deploy"){
    steps{
        echo "Deploying the container"
        sh "docker-compose down && docker-compose up -d"
      }
}
```

### **Stage View**

	Code	Build	Push to Docker Hub	Deploy
Average stage times: (Average <u>full</u> run time: ~13s)	825ms	3s	3s	680ms
Jul 11 No Changes	691ms	1s	4s	3s

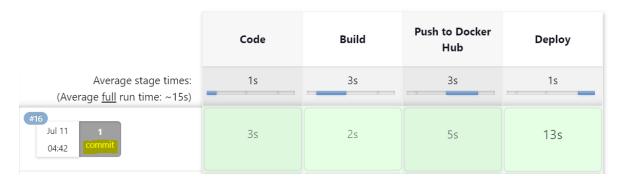


Lets change the little bit docker-compose file: build replace with image, now we are taking images from docker hub.



We have committed few things, now you can run as much as possible, never getting error.

#### **Stage View**



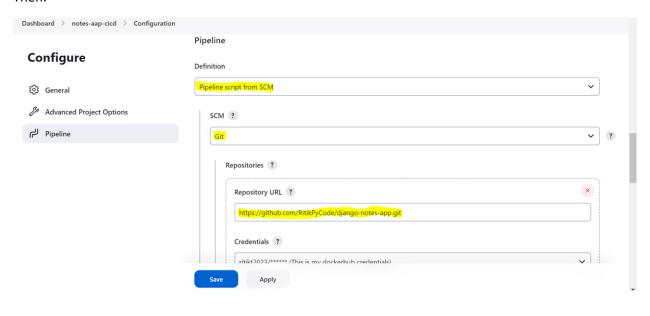
### This is called robust pipeline.

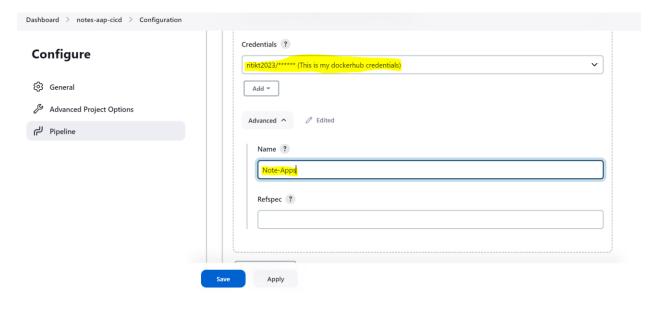
A Robust Pipeline = Predictability + Power + Profit. The foundation of building a pipeline is about blocking out the time and being committed to focused prospecting.

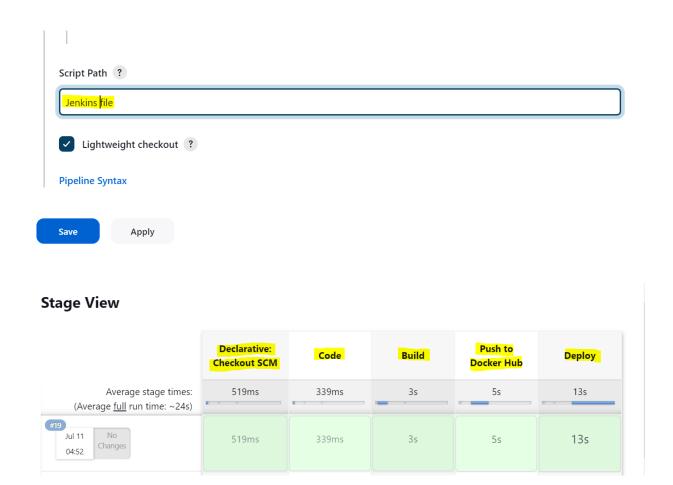
Now let's try our whole code will come from GitHub. Through adding file Jenkins files

Copy whole pipeline code, go to GitHub> add new file> paste same code as Jenkins file> commit it.

#### Then:



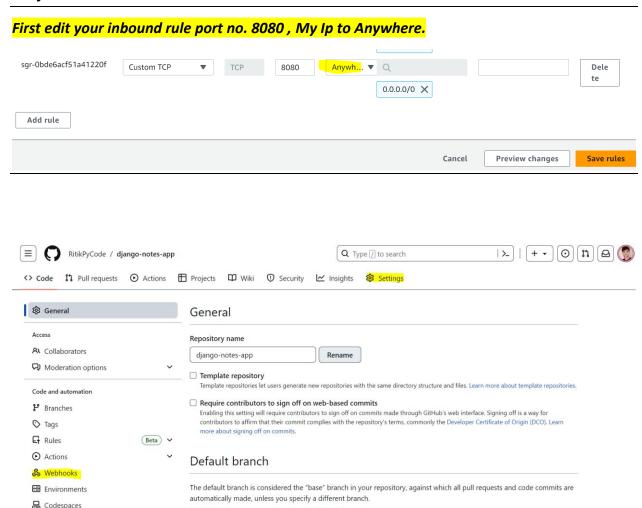




Application has been deployed successfully.

## Webhook concept:

A webhook is a mechanism by which GitHub notifies Jenkins of changes to a repository. Jenkins can then automatically build and test the code in response to the webhook notification.



## Jenkins URL in Payload URL section:

Settings	Recent Deliveries
	a POST request to the URL below with details of any subscribed events. You can I'd like to receive (JSON, x-www-form-urlencoded, <i>etc</i> ). More information can be ation.
Payload U	RL *
http://18	3.117.216.230:8080/github-webhook/
Content ty	ре
applicati	on/x-www-form-urlencoded 🗢
Secret	
Which eve	nts would you like to trigger this webhook?
O Just the	e push event.
<ul><li>Send m</li></ul>	e e <mark>verything</mark> .
O Let me	select individual events.

Which events would you like to trigger th	s webhook?
O Just the push event.	
Send me everything.	
O Let me select individual events.	
✓ Active	
We will deliver event details when this hook is	triggered.
We will deliver event details when this hook is  Add webhook	triggered.
	triggered.
	triggered.
Add webhook	triggered.
	Add webhoo

Now webhook is configured. If you change any think in code and commit it... that will be triggered automatically, it's called continuous deployment. With out clicking on build now.

### Stage View

	Declarative: Checkout SCM	Code	Build	Push to Docker Hub	Deploy
Average stage times: (Average <u>full</u> run time: ~24s)	494ms	373ms	3s	6s	13s
#21 Jul 11 05:23 commit	470ms	377ms	3s	6s	13s

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