

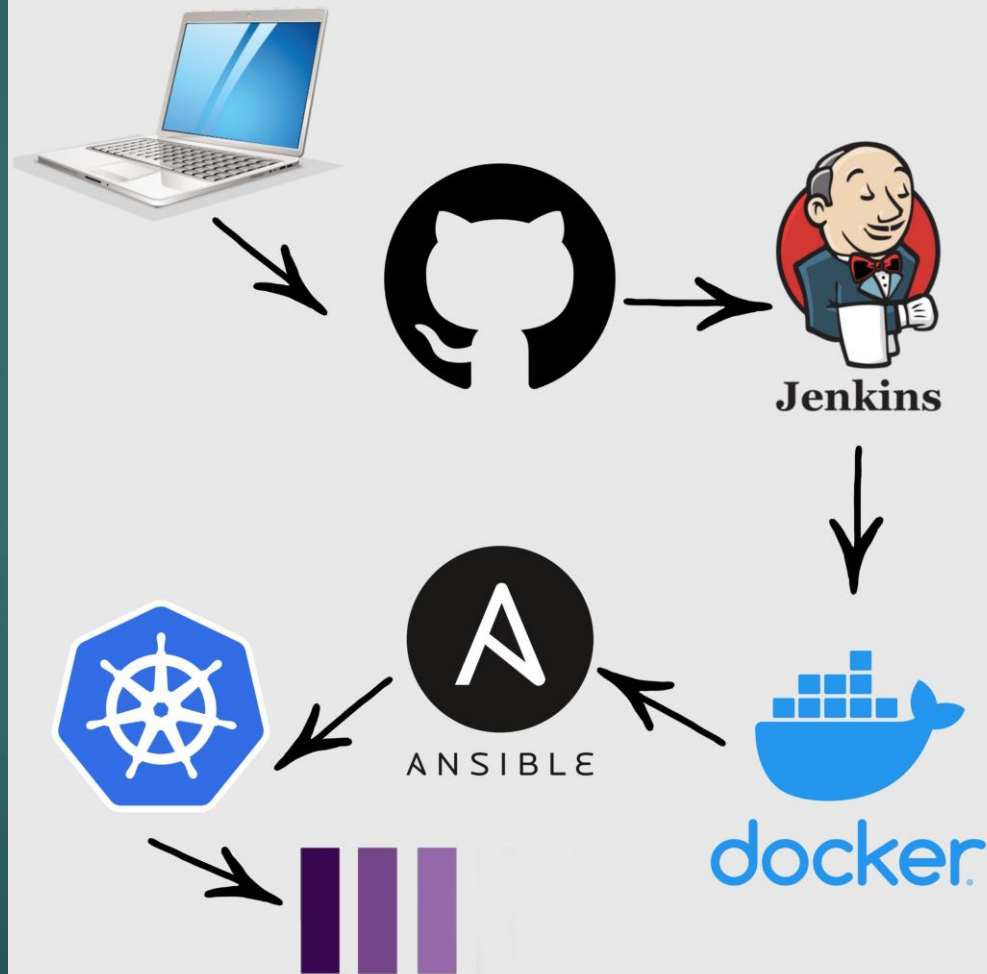


# CI/CD *Pipeline*

- SUMANTH SUBRAHMANYA

# Diagram

## CI - CD Pipeline



# Plugins

- ▶ *Git*
- ▶ *Convert to pipeline*
- ▶ *Docker*
- ▶ *Docker pipeline*
- ▶ *CloudBees Docker build and publish*
- ▶ *Ansible*

# Dockerfile, Jenkinsfile


16 lines (8 sloc) | 181 Bytes

```
1 FROM python:3.7-alpine
2
3
4 USER root
5
6 WORKDIR /app
7
8 ADD . /app
9
10 RUN pip install --trusted-host pypi.python.org -r requirements.txt
11
12 EXPOSE 80
13
14 ENV NAME World
15
16 CMD ["python", "web.py"]
```

11 lines (8 sloc) | 256 Bytes


```
1 node {
2     checkout scm
3
4     docker.withRegistry('https://registry.hub.docker.com', 'dockerhub') {
5
6         def customImage = docker.build("sumanth55/case-study-b")
7
8         /* Push the container to the custom Registry */
9         customImage.push()
10    }
11 }
```


# Credentials


 **Jenkins**


search


Dashboard > Credentials


 New Item


 People

 Build History

 Manage Jenkins


 Convert To Pipeline



 Lockable Resources

 New View

**Build Queue** ^  
No builds in the queue.



**Build Executor Status** ^  
1 Idle  
2 Idle

 **Credentials**

T	P	Store ↓	Domain	ID	Name
		Jenkins	(global)	dockerhub	sumanth55/*****

Icon: [S](#) [M](#) [L](#)

**Stores scoped to Jenkins**

P	Store ↓	Domains
	Jenkins	 (global)

Definition Pipeline script from SCM

SCM Git

Repositories

Repository URL https://github.com/Sumanth5/2020\_0:

Credentials - none - Add

Advanced...

Add Repository

Branches to build

Branch Specifier (blank for 'any') \*\*

Add Branch

Repository browser (Auto)

Additional Behaviours Add

Save


Apply


# Build

```
← → ↺ 🏠 ⓘ localhost:8080/job/case-study-b/6/console
Dashboard ▶ case-study-b ▶ #6

[Pipeline] bat
C:\Program Files (x86)\Jenkins\workspace\case-study-b>docker push registry.hub.docker.com/sumanth55/case-study-b:latest
The push refers to repository [registry.hub.docker.com/sumanth55/case-study-b]
729b6ecb6704: Preparing
4c3888ccbaca: Preparing
d586d69d3058: Preparing
81a02def83df: Preparing
36afc972a6f5: Preparing
05eb4c35bd87: Preparing
27448fb13b80: Preparing
1119ff37d4a9: Preparing
1119ff37d4a9: Waiting
27448fb13b80: Waiting
05eb4c35bd87: Waiting
81a02def83df: Pushed
36afc972a6f5: Pushed
d586d69d3058: Pushed
4c3888ccbaca: Pushed
729b6ecb6704: Pushed
27448fb13b80: Pushed
1119ff37d4a9: Pushed
05eb4c35bd87: Pushed
latest: digest: sha256:ce48ff0099553e4f2d2a50d5041f812a62c2301b9be449b8d669efe20e9926da size: 1998
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

# Docker registry



[Explore](#) [Repositories](#) [Organizations](#) [Get Help](#) sumanth55 

▼

[Create Repository](#)

sumanth55 / **case-study-b**

Updated a few seconds ago

Not Scanned

☆ 0

↓ 4

Public

sumanth55 / **catnip**


Updated a month ago

Not Scanned

☆ 0

↓ 5

Public



Tip: Not finding your repository? Try switching namespace via the top left dropdown.