

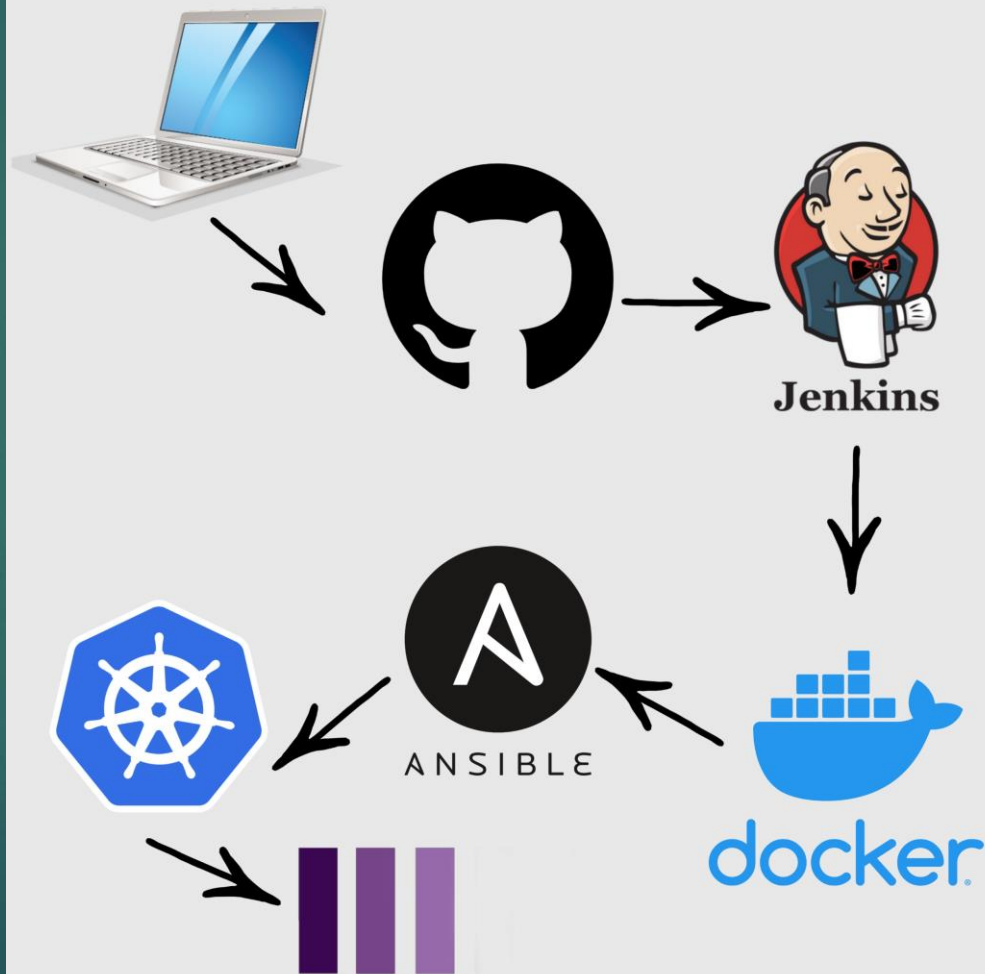


CI/CD *Pipeline*

- SUMANTH SUBRAHMANYA

Diagram

CI - CD Pipeline



Plugins for Jenkins

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

Dockerfile, Jenkinsfile

16 lines (8 sloc) | 181 Bytes

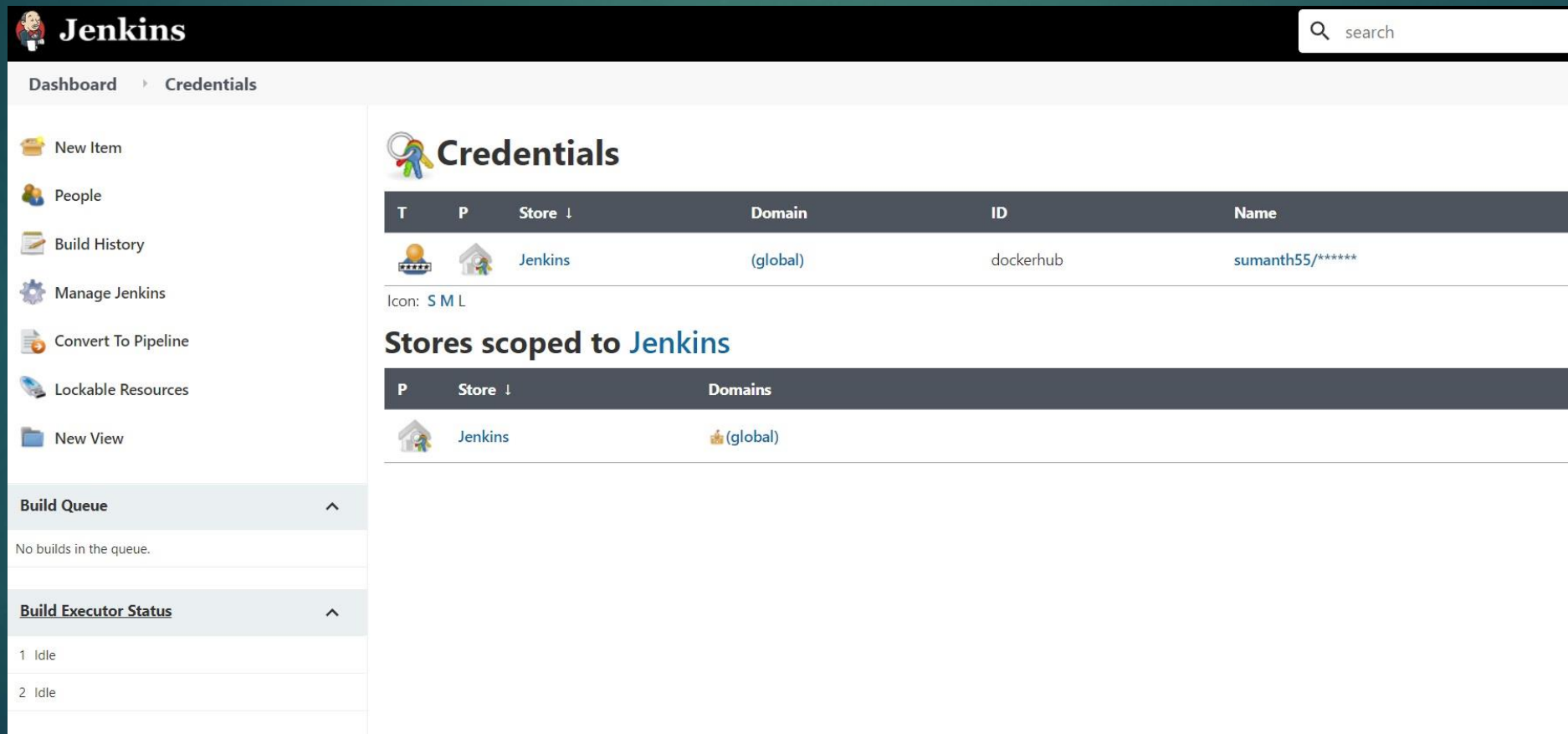
```
1 FROM python:3.7-alpine
2
3
4 USER root
5
6 WORKDIR /app
7
8 ADD . /app
9
10 RUN pip install --trusted-host pypi.python.org -r requirements.txt
11
12 EXPOSE 80
13
14 ENV NAME World
15
16 CMD ["python", "web.py"]
```

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

- added Dockerhub credentials



The screenshot shows the Jenkins web interface. At the top is a black header with the Jenkins logo and a search bar. Below the header, a breadcrumb trail shows 'Dashboard' and 'Credentials'. The left sidebar contains a list of navigation links: 'New Item', 'People', 'Build History', 'Manage Jenkins', 'Convert To Pipeline', 'Lockable Resources', and 'New View'. The main content area is titled 'Credentials' and features a table with columns: 'T', 'P', 'Store', 'Domain', 'ID', and 'Name'. A single entry is listed with a Jenkins icon, 'Jenkins' as the store, '(global)' as the domain, 'dockerhub' as the ID, and 'sumanth55/*****' as the name. Below the table is a link for 'Icon: S M L'. Underneath, a section titled 'Stores scoped to Jenkins' contains another table with columns 'P', 'Store', and 'Domains'. This table has one entry: 'Jenkins' as the store and '(global)' as the domain. At the bottom of the sidebar, there are two expandable sections: 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing two 'Idle' executors).

Jenkins search

Dashboard > Credentials

New Item
People
Build History
Manage Jenkins
Convert To Pipeline
Lockable Resources
New View

Credentials

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

Icon: S M L

Stores scoped to Jenkins

P	Store ↓	Domains
	Jenkins	(global)

Build Queue ^
No builds in the queue.

Build Executor Status ^
1 Idle
2 Idle

Linking GitHub repository URL to Jenkins pipeline

Dashboard > case-study-b >

General Build Triggers Advanced Project Options **Pipeline**

Definition Pipeline script from SCM

SCM Git

Repositories

Repository URL ?

Credentials Add ?

Advanced... ?

Add Repository

Branches to build

Branch Specifier (blank for 'any') ?

Add Branch

Repository browser (Auto) ?

Additional Behaviours Add


Save Apply


Build - Success

```
← → ↺ 🏠 ⓘ 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
```

Automatically Updated Docker registry



ExploreRepositoriesOrganizationsGet Help ▾sumanth55 ▾

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.

App Running locally

