

# Final Exam - Jenkins Outputs

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## Cloning Yaniv's repo and checking out to the relevant branch:

...

```
ubuntu@ip-172-31-4-198:~$ git clone https://github.com/yanivomc/devopshift-welcome.git
Cloning into 'devopshift-welcome'...
remote: Enumerating objects: 18127, done.
remote: Total 18127 (delta 0), reused 0 (delta 0), pack-reused 18127 (from 1)
Receiving objects: 100% (18127/18127), 138.08 MiB | 27.09 MiB/s, done.
Resolving deltas: 100% (8808/8808), done.
ubuntu@ip-172-31-4-198:~$ cd devopshift-welcome/
ubuntu@ip-172-31-4-198:~/devopshift-welcome$ git checkout jenkins-workshop
Branch 'jenkins-workshop' set up to track remote branch 'jenkins-workshop' from 'origin'.
Switched to a new branch 'jenkins-workshop'
```

...

## Docker-compose up to get Jenkins:

...

```
ubuntu@ip-172-31-4-198:~/devopshift-welcome$ cd welcome/
ubuntu@ip-172-31-4-198:~/devopshift-welcome/welcome$ docker-compose up -d
[+] Running 2/2
 ! jenkins-slave Warning pull access denied for jenkins-jb/slave, repository does not exist or
may require 'doc...          0.1s
 ! jenkins Warning      pull access denied for jenkins-jb/master, repository does not exist or
may require 'docker l...     0.1s
Compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[+] Building 64.3s (22/22) FINISHED
docker:default
=> [jenkins internal] load build definition from Dockerfile
0.0s
=> => transferring dockerfile: 945B
0.0s
=> [jenkins internal] load metadata for docker.io/jenkins/jenkins:2.452.3
0.4s
=> [jenkins internal] load .dockerignore
0.0s
=> => transferring context: 2B
0.0s
=> [jenkins internal] load build context
0.0s
```

=> => transferring context: 596B  
0.0s  
=> [jenkins 1/4] FROM  
docker.io/jenkins/jenkins:2.452.3@sha256:50b22a852fa690a195453231f649ee171ee6b15a57c3b49bab4130dd97612c34 11.3s  
=> => resolve  
docker.io/jenkins/jenkins:2.452.3@sha256:50b22a852fa690a195453231f649ee171ee6b15a57c3b49bab4130dd97612c34 0.0s  
=> =>  
sha256:7fef0d6ded53ed2c0bb64b8e07763090d7ae8cb509b12c3eb5d4bef89a02a704  
12.63kB / 12.63kB 0.0s  
=> => sha256:941a647ff357b9178f9d3d8260ed25d844ff821a22d4dafed9d0af2b3c1ca0af  
61.36MB / 61.36MB 0.9s  
=> => sha256:f0f251032519904eab2d3a254804dcd8ba946388780fba4623cfb235f36cbb9dd  
8.85MB / 8.85MB 0.5s  
=> => sha256:9afe56375fb720d32e496bb88a8fc7e93f019fd8461fdd693b6ae0c17a8a89a0  
2.58kB / 2.58kB 0.0s  
=> => sha256:e9aef93137af6e967e7242f3b3c8ecd8e6f571d1e6fdd9e72db0befeeae3cf13  
49.55MB / 49.55MB 0.7s  
=> =>  
sha256:50b22a852fa690a195453231f649ee171ee6b15a57c3b49bab4130dd97612c34  
3.12kB / 3.12kB 0.0s  
=> =>  
sha256:d4c6328162883aab3027931f99aa96b07a981739d217a68f4e4130b0242ded76  
1.24kB / 1.24kB 0.6s  
=> => sha256:995009f196ec387953e3a6f67b44dfcf7365e0074eace3faf36a9254630aea55  
93.21MB / 93.21MB 2.3s  
=> =>  
sha256:07b0d8ca8ab78e59d86d891327b173de35ca5b98f150244d7d0ade086a330bcd  
184B / 184B 0.7s  
=> => extracting  
sha256:e9aef93137af6e967e7242f3b3c8ecd8e6f571d1e6fdd9e72db0befeeae3cf13  
4.1s  
=> => sha256:25f6587a42fbde5287f33d61704a652e354efb6f355f2eadd0e02d708df041ef  
191B / 191B 1.0s  
=> =>  
sha256:aa636159e94bd1c2d5444e45776b94da48da06bd396265952180ae4999bc6feb  
63.22MB / 63.22MB 2.0s  
=> => sha256:a559a5c3d54950547150cc5235c054941ff6120844d132711cf53472271cfa61  
6.24MB / 6.24MB 1.2s  
=> =>  
sha256:862717e1a01c3b1e214cad199a3e3cfd8771669fa846c5be4b7c8bd9dc41c1ca  
1.92kB / 1.92kB 1.4s  
=> => sha256:6778d605d2d135446cea0c67fa05a5a68a90e323ffff50be51bef57e94c5e890  
1.23kB / 1.23kB 1.5s  
=> =>  
sha256:86a41c428de5b2a3904a423112954de2d86bff6f0d7f8714aad1a35454851430 391B  
/ 391B 1.6s

=> => extracting  
sha256:941a647ff357b9178f9d3d8260ed25d844ff821a22d4dafed9d0af2b3c1ca0af  
3.1s

=> => extracting  
sha256:f0f251032519904eab2d3a254804dcdba946388780fba4623cfb235f36cbb9dd  
0.2s

=> => extracting  
sha256:d4c6328162883aab3027931f99aa96b07a981739d217a68f4e4130b0242ded76  
0.0s

=> => extracting  
sha256:07b0d8ca8ab78e59d86d891327b173de35ca5b98f150244d7d0ade086a330bcd  
0.0s

=> => extracting  
sha256:995009f196ec387953e3a6f67b44dfcf7365e0074eace3faf36a9254630aea55  
0.9s

=> => extracting  
sha256:25f6587a42fbde5287f33d61704a652e354efb6f355f2eadd0e02d708df041ef  
0.0s

=> => extracting  
sha256:a559a5c3d54950547150cc5235c054941ff6120844d132711cf53472271cfa61  
0.1s

=> => extracting  
sha256:aa636159e94bd1c2d5444e45776b94da48da06bd396265952180ae4999bc6feb  
1.2s

=> => extracting  
sha256:862717e1a01c3b1e214cad199a3e3cfd8771669fa846c5be4b7c8bd9dc41c1ca  
0.0s

=> => extracting  
sha256:6778d605d2d135446cea0c67fa05a5a68a90e323ffff50be51bef57e94c5e890  
0.0s

=> => extracting  
sha256:86a41c428de5b2a3904a423112954de2d86bff6f0d7f8714aad1a35454851430  
0.0s

=> [jenkins 2/4] RUN /bin/jenkins-plugin-cli --plugins git matrix-auth credentials-binding  
workflow-aggregator docker-workflow blueocean 15.1s

=> [jenkins 3/4] COPY executors.groovy /usr/share/jenkins/ref/init.groovy.d/  
0.0s

=> [jenkins 4/4] COPY default-user.groovy /usr/share/jenkins/ref/init.groovy.d/  
0.0s

=> [jenkins] exporting to image  
0.8s

=> => exporting layers  
0.8s

=> => writing image  
sha256:1ea6ab0b034a04ff7a1bcf68c24b38f43697bb7b77c9d59c5483c4af7fd0263e  
0.0s

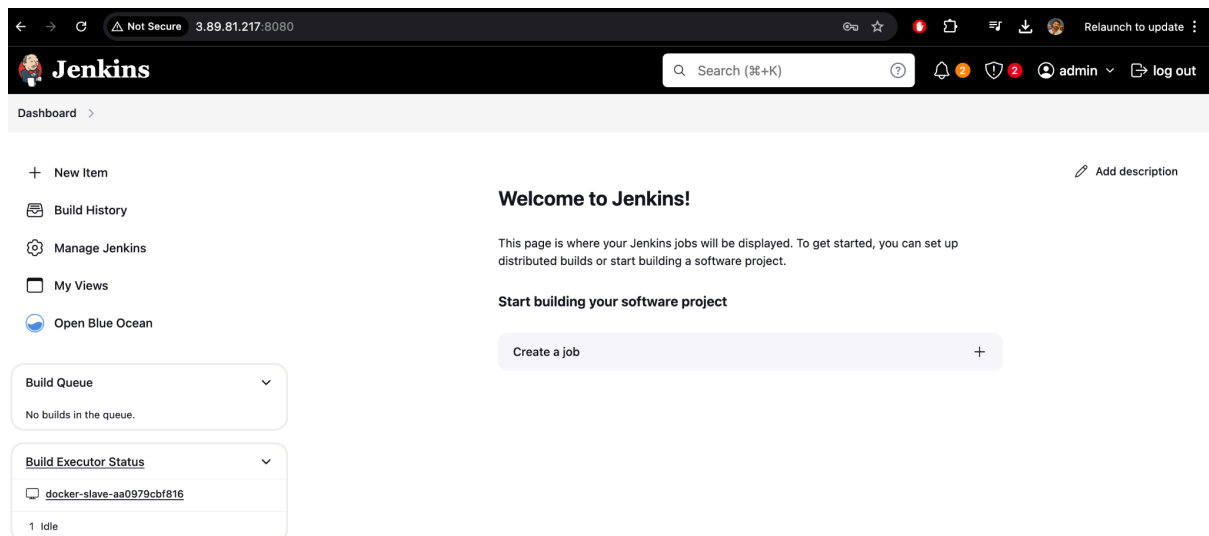
=> => naming to docker.io/jenkins-jb/master:1.0  
0.0s

=> [jenkins] resolving provenance for metadata file  
0.0s  
=> [jenkins-slave internal] load build definition from Dockerfile  
0.0s  
=> => transferring dockerfile: 773B  
0.0s  
=> [jenkins-slave internal] load metadata for docker.io/yanivomc/jenkins-slave:baseline-1.0  
0.2s  
=> [jenkins-slave internal] load .dockerignore  
0.0s  
=> => transferring context: 2B  
0.0s  
=> [jenkins-slave 1/6] FROM  
docker.io/yanivomc/jenkins-slave:baseline-1.0@sha256:a33eb6ae100e0e111ac90db4d1e5b  
b737b7c49e6a3ba2a36c577d 31.1s  
=> => resolve  
docker.io/yanivomc/jenkins-slave:baseline-1.0@sha256:a33eb6ae100e0e111ac90db4d1e5b  
b737b7c49e6a3ba2a36c577d76b0fa247a9 0.0s  
=> =>  
sha256:d19f32bd9e4106d487f1a703fc2f09c8edadd92db4405d477978e8e466ab290d  
30.43MB / 30.43MB 0.5s  
=> =>  
sha256:32284c1b394eedb00472a01718ca8298646c143b7e6a2dd655fde353ecb42a32  
26.81MB / 26.81MB 0.6s  
=> =>  
sha256:a33eb6ae100e0e111ac90db4d1e5bb737b7c49e6a3ba2a36c577d76b0fa247a9  
2.22kB / 2.22kB 0.0s  
=> => sha256:df3aee5eea3790fa2edb4bf0f103b91fc9d8eb5874510d4d60858ae05e110ac5  
2.86kB / 2.86kB 0.0s  
=> =>  
sha256:53b0a1566aad76d8d1f613d3fae4c132147657123237442585b1c4141118570f  
46.18MB / 46.18MB 1.7s  
=> => extracting  
sha256:d19f32bd9e4106d487f1a703fc2f09c8edadd92db4405d477978e8e466ab290d  
4.4s  
=> => sha256:3b5dc1bb247f6ffdcce87acdf0012c9b320bf117025c5860e15bbf909e7b9dd  
3.03kB / 3.03kB 0.6s  
=> =>  
sha256:8863737a01ca625bc67faee64cc48c78a0212b6dc4a04f0300283787a37e8989  
190.95kB / 190.95kB 0.7s  
=> =>  
sha256:c2755d3340c1e5dcd9645da114124a36432a1bc2f0cad00c58485a27ff371090  
160.87MB / 160.87MB 3.7s  
=> => sha256:a372301c893215850cd168686bdac8d2b96f5851ff1a0fd87e5ac85452fbf58a  
419.75kB / 419.75kB 0.8s  
=> =>  
sha256:6ba9ed0ab9112b4a5edd5ad71c7a5715d3df905c357bfc96a72d48c29b86e341  
1.33MB / 1.33MB 1.0s

=> => sha256:541ef992d7b4398bf1f281f4ba5a4a8739f7b7e0836dbbb9ec727783999020f2  
444.48MB / 444.48MB 7.7s  
=> => extracting  
sha256:32284c1b394eedb00472a01718ca8298646c143b7e6a2dd655fde353ecb42a32  
1.2s  
=> => extracting  
sha256:53b0a1566aad76d8d1f613d3fae4c132147657123237442585b1c4141118570f  
3.3s  
=> => extracting  
sha256:3b5dc1bb247f6ffdcce87acdf0012c9b320bf117025c5860e15bbf909e7b9dd  
0.0s  
=> => extracting  
sha256:8863737a01ca625bc67faee64cc48c78a0212b6dc4a04f0300283787a37e8989  
0.0s  
=> => extracting  
sha256:c2755d3340c1e5dcd9645da114124a36432a1bc2f0cad00c58485a27ff371090  
6.0s  
=> => extracting  
sha256:a372301c893215850cd168686bdac8d2b96f5851ff1a0fd87e5ac85452fbf58a  
0.0s  
=> => extracting  
sha256:6ba9ed0ab9112b4a5edd5ad71c7a5715d3df905c357bfc96a72d48c29b86e341  
0.6s  
=> => extracting  
sha256:541ef992d7b4398bf1f281f4ba5a4a8739f7b7e0836dbbb9ec727783999020f2  
12.8s  
=> [jenkins-slave internal] load build context  
0.0s  
=> => transferring context: 3.20kB  
0.0s  
=> [jenkins-slave 2/6] RUN pip install jenkins-webapi  
4.1s  
=> [jenkins-slave 3/6] RUN mkdir -p /home/jenkins  
0.3s  
=> [jenkins-slave 4/6] RUN mkdir -p /var/lib/jenkins  
0.2s  
=> [jenkins-slave 5/6] ADD slave.py /var/lib/jenkins/slave.py  
0.1s  
=> [jenkins-slave 6/6] WORKDIR /home/jenkins  
0.0s  
=> [jenkins-slave] exporting to image  
0.1s  
=> => exporting layers  
0.1s  
=> => writing image  
sha256:b36294a155d4d8e580929709ef98fd9434da9142615ee38321f68ca4ad318fe9  
0.0s

```
=> => naming to docker.io/jenkins-jb/slave:1.0
0.0s
=> [jenkins-slave] resolving provenance for metadata file
0.0s
[+] Running 5/5
  ✓ jenkins                Built
0.0s
  ✓ jenkins-slave          Built
0.0s
  ✓ Network welcome_jb     Created
0.1s
  ✓ Container jenkins       Started
0.8s
  ✓ Container welcome-jenkins-slave-1 Started
1.2s
...
```

## Accessed Jenkins via instance public ip and port 8080:



## Configuring Dockerhub Credentials:



## Credentials

Configure credentials

### Credentials

| T | P | Store ↓ | Domain | ID | Name |
|---|---|---------|--------|----|------|
|---|---|---------|--------|----|------|

#### Stores scoped to Jenkins

| P | Store ↓ | Domains  |
|---|---------|----------|
|   | System  | (global) |

Icon: S M L

#### Global credentials (unrestricted)

+ Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

| ID  | Name | Kind | Description |
|---|------|------|-------------|
| This credential domain is empty. How about <a href="#">adding some credentials?</a> |      |      |             |

Icon: S M L

#### Global credentials (unrestricted)

+ Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

| ID                              | Name   | Kind                   | Description     |
|---------------------------------|--|------------------------|-----------------|
| <a href="#">dockerhub-creds</a> | hanilz1995@gmail.com/***** (dockerhub-creds) | Username with password | dockerhub-creds |

**NOTE: At this stage I've created a repository on Dockerhub but forgot to screenshot the steps for it.**

**Creating the Pipeline:**

## Enter an item name

» A job already exists with the name 'final-exam'



### Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



### Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



### Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



### Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



### Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.



### Organization Folder

Creates a set of multibranch project subfolders by scanning for repositories.

## Pipeline

### Definition

Pipeline script

#### Script ?

```
135 sh -c 'docker push $DOCKER_REGISTRY/$REPO_NAME:$TEST'
136 }
137 }
138 }
139 }
140 }
141 post {
142     success {
143         echo 'Pipeline completed successfully!'
144     }
145     failure {
146         echo 'Pipeline failed! Check logs for details.'
147     }
148 }
149 }
150 }
```

try sample Pipeline... ▾

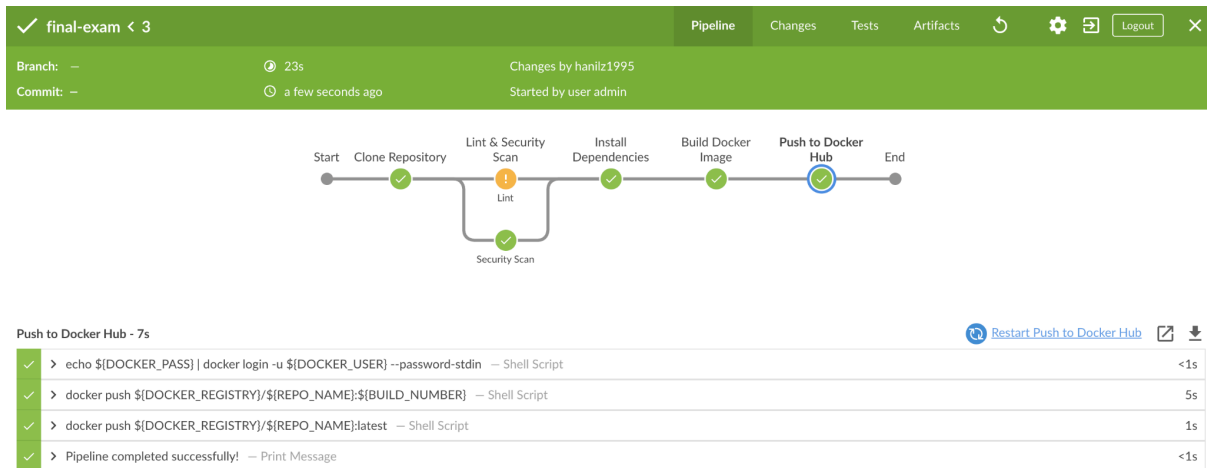
☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save

Apply





## Checking If the Images Were Pushed Correctly To the Dockerhub Repository:

dockerhub Explore Repositories Organizations Usage 🔍 Sea

hanilz / [Repositories](#) / [final-exam](#) / [General](#)

### hanilz/final-exam ⓘ

Last pushed 1 minute ago · Repository size: 97 MB

[Add a description](#) ⓘ ⓘ

[Add a category](#) ⓘ ⓘ

General Tags Image Management BETA Collaborators Webhooks Settings

#### Tags

This repository contains 3 tag(s).

| Tag      | OS | Type  | Pulled          | Pushed    |
|----------|----|-------|-----------------|-----------|
| ■ latest |    | Image | less than 1 day | 1 minute  |
| ■ 3      |    | Image | less than 1 day | 1 minute  |
| ■ 2      |    | Image | less than 1 day | 3 minutes |

[See all](#)

Great Success!

You can access the repository using the following link:

<https://hub.docker.com/repository/docker/hanilz/final-exam/general>