

CircleCi Lab 1

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Abstract

This report represents the process I went through to deploy a nodejs app in a docker image then push it to the hub using CircleCi as a CI/CD tool.

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Step 1: configuring my CircleCi account

From CircleCi website, I created a new account and connected it with my GitHub account. It automatically loads my projects, so I needn't to use any keys or tokens for private repositories like Jenkins.

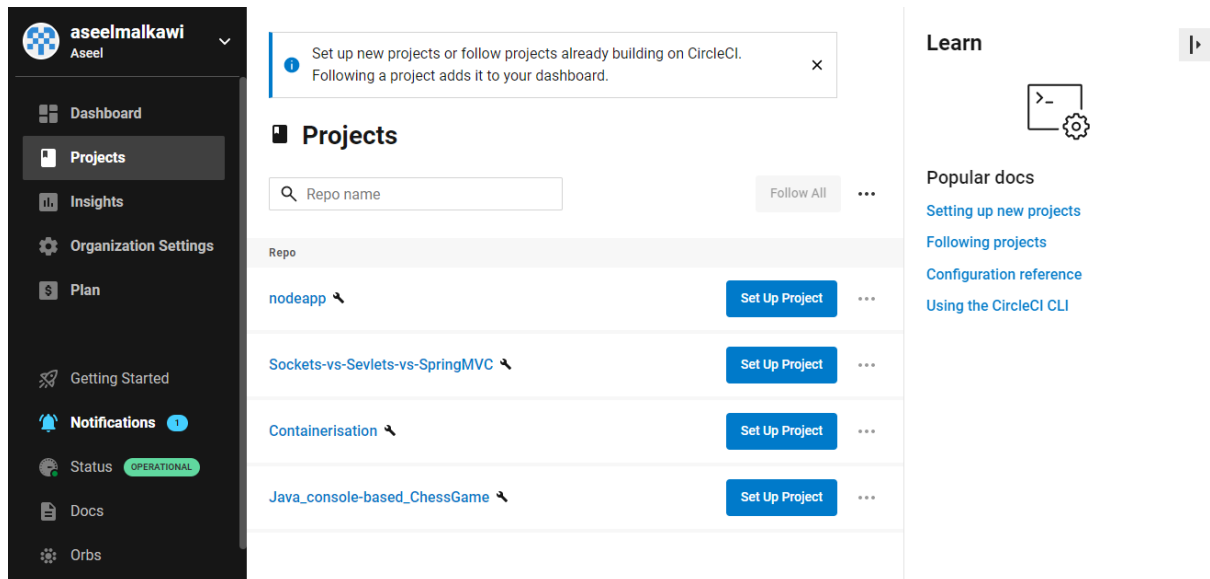


Figure 1: projects dashboard

Step 2: creating config.yml

I clicked set up project and noticed I needed a config.yml file in a specific path. So, I researched on how to create that file for a node app to be pushed to Docker hub. Then, I took this knowledge to GitHub and created a directory from add file > create new file:

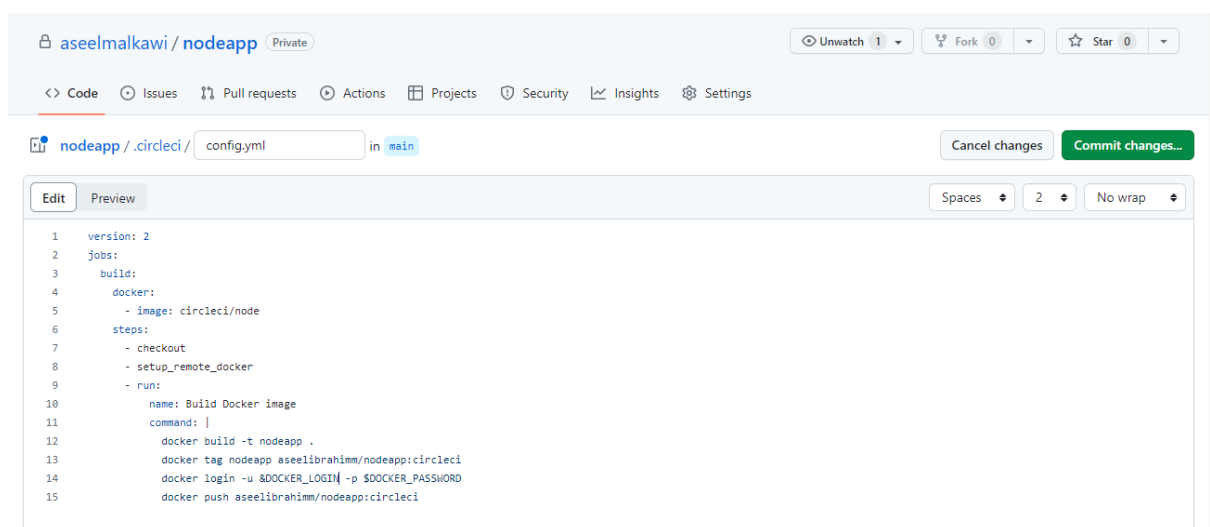


Figure 2: creating config.yml

I wrote the directory name then forward slash to create the folder, then named the file config.yml and wrote the file as the figure above shows. Lastly, I committed the changes.

Step 3: setting up the project

I went back to the main screen in CircleCi and found that it had identified the new file I added:

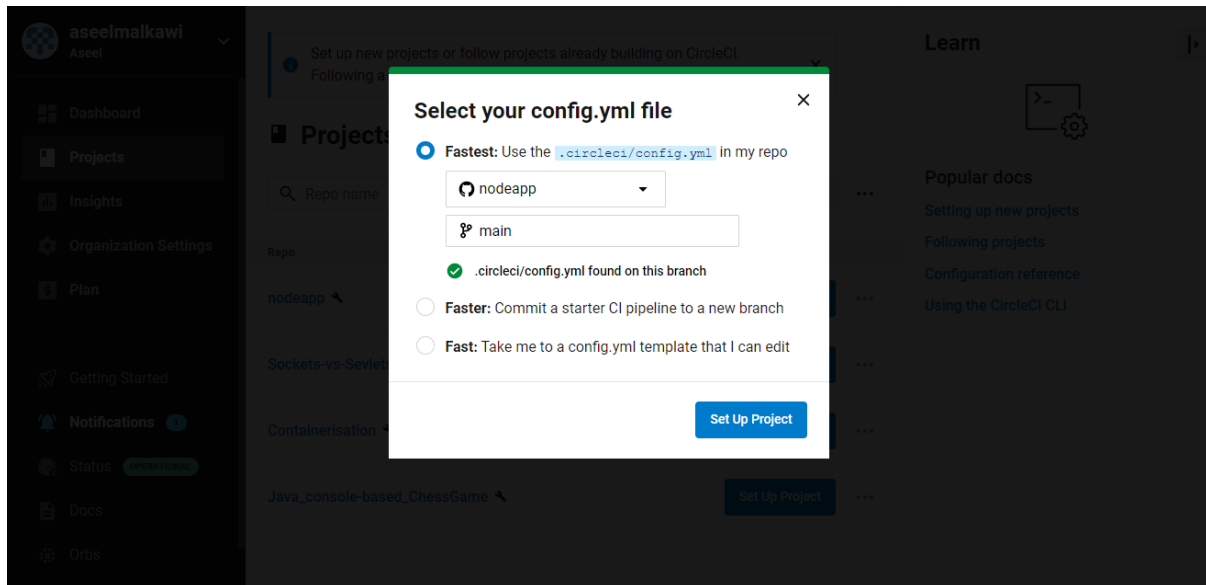


Figure 3: setting up the project

I clicked set up then was directed to the screen that displayed the pipelines. There, I clicked project settings and added environment variables, which are my docker hub credentials referenced in the config file.

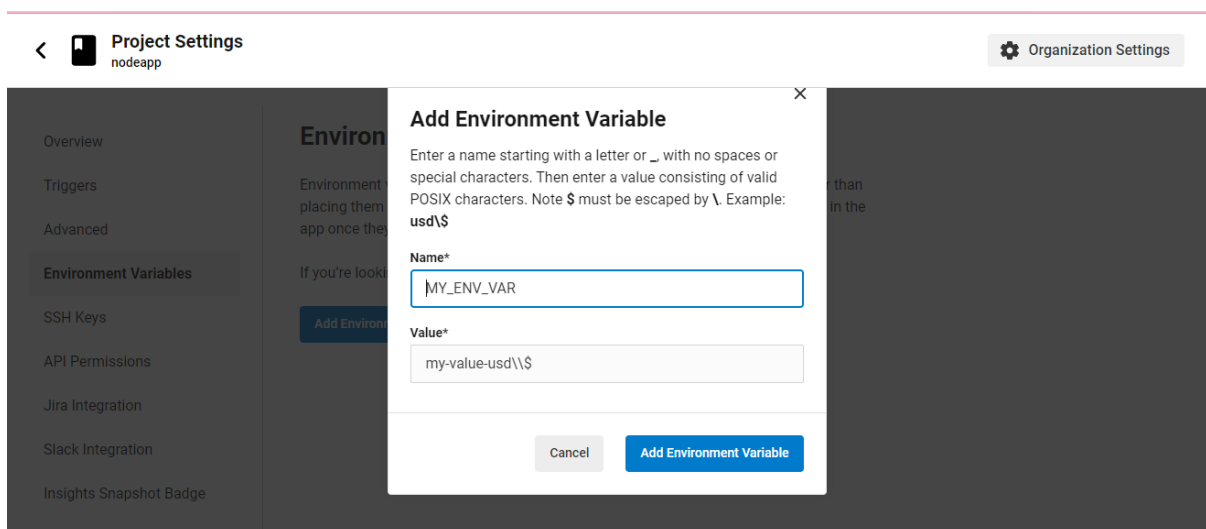


Figure 4: creating env vars

Step 4: running the pipeline

After everything is set, I ran the pipeline and got a successful result.

Dashboard Project Branch Workflow Job

All Pipelines > nodeapp > main > workflow > build (26)

build Success Rerun ...

Duration / Finished	Queued / Preparing	Executor / Resource Class	Branch	Commit
15s / 3m ago	0s / 17s	Remote Docker / Large	main	3b9e044

Author & Message

Update config.yml

Warning: You're using a deprecated Docker convenience image. Upgrade to a next-gen Docker convenience image.

STEPS TESTS TIMING ARTIFACTS RESOURCES **NEW**


- Spin up environment** 0s
- Spin up container environment** 14s
- Preparing environment variables** 0s


```
37 run 'npm fund' for details
38
39 found 0 vulnerabilities
40
41 Removing intermediate container 0335152b9483
42 ---> 9d422dfa9c4c
43 Step 5/5 : CMD ["node", "/nodeapp/app.js"]
44 ---> Running in ea25d91429bc
45 Removing intermediate container ea25d91429bc
46 ---> 3fd989c90e13
47 Successfully built 3fd989c90e13
48 Successfully tagged nodeapp:latest
49 WARNING! Using --password via the CLI is insecure. Use --password-stdin.
50 WARNING! Your password will be stored unencrypted in /home/circleci/.docker/config.json.
51 Configure a credential helper to remove this warning. See
52 https://docs.docker.com/engine/reference/commandline/login/#credentials-store
53
54 Login Succeeded
55 The push refers to repository [docker.io/*****/nodeapp]
56
57 ce27f448: Preparing
58 ae1172c0: Preparing
59 0b414da7: Preparing
60 290f2c17: Preparing
61 cd01c26c: Preparing
62 4c181913: Preparing
63 bfa94785: Preparing
64 eb8d96fc: Preparing
65 459e2059: Preparing
66 3fb3a55c: Preparing
67 circleci: digest: sha256:d724eb2e9690c54f37450d34029df944ff3eed7ab12e7ac33b4fe64alc449a68 size: 2633
68 CircleCI received exit code 0
```


Figure 5: the pipeline ran successfully

Step 5: checking up docker hub

To verify, here's the pushed image:

 aseelibrhimm / nodeapp

Description
This repository does not have a description 

 Last pushed: 28 minutes ago



Docker commands

Public View


To push a new tag to this repository,

```
docker push aseelibrhimm/nodeapp:tagname
```

Tags
This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 circleci		Image	23 minutes ago	28 minutes ago

[See all](#)[Go to Advanced Image Management](#)

Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
Available with Pro, Team and Business subscriptions. [Read more about automated builds](#) 

Upgrade

Figure 6: the image