

# DevOps 2TIN

## Chapter 10

Integratieoefening



**DE HOGESCHOOL  
MET HET NETWERK**

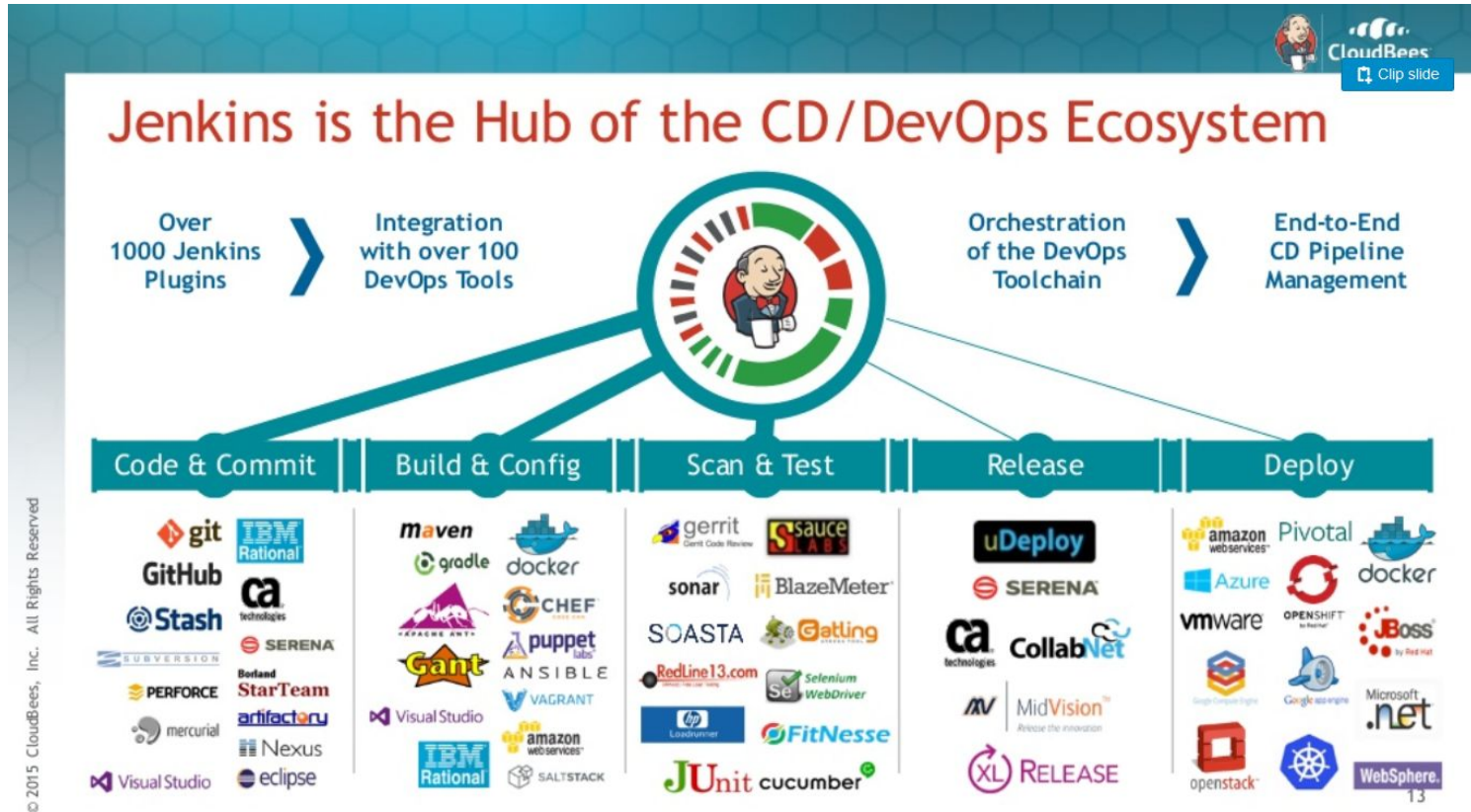
Elfde-Liniestraat 24, 3500 Hasselt, [www.pxl.be](http://www.pxl.be)



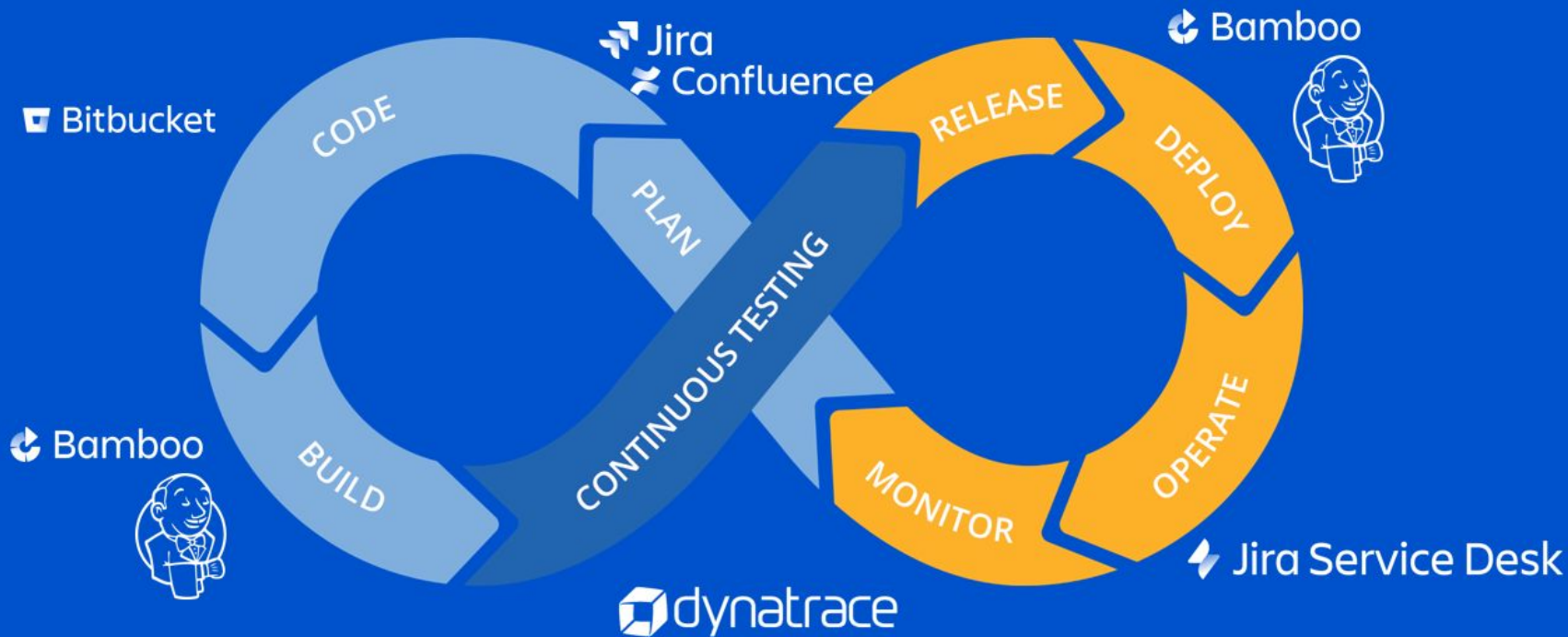
# Integratieoefening

Recap  
Github actions  
Heroku

# Recap

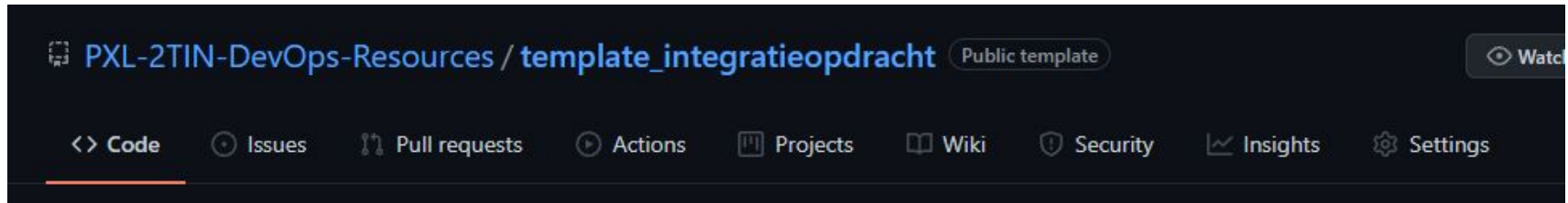


# Recap



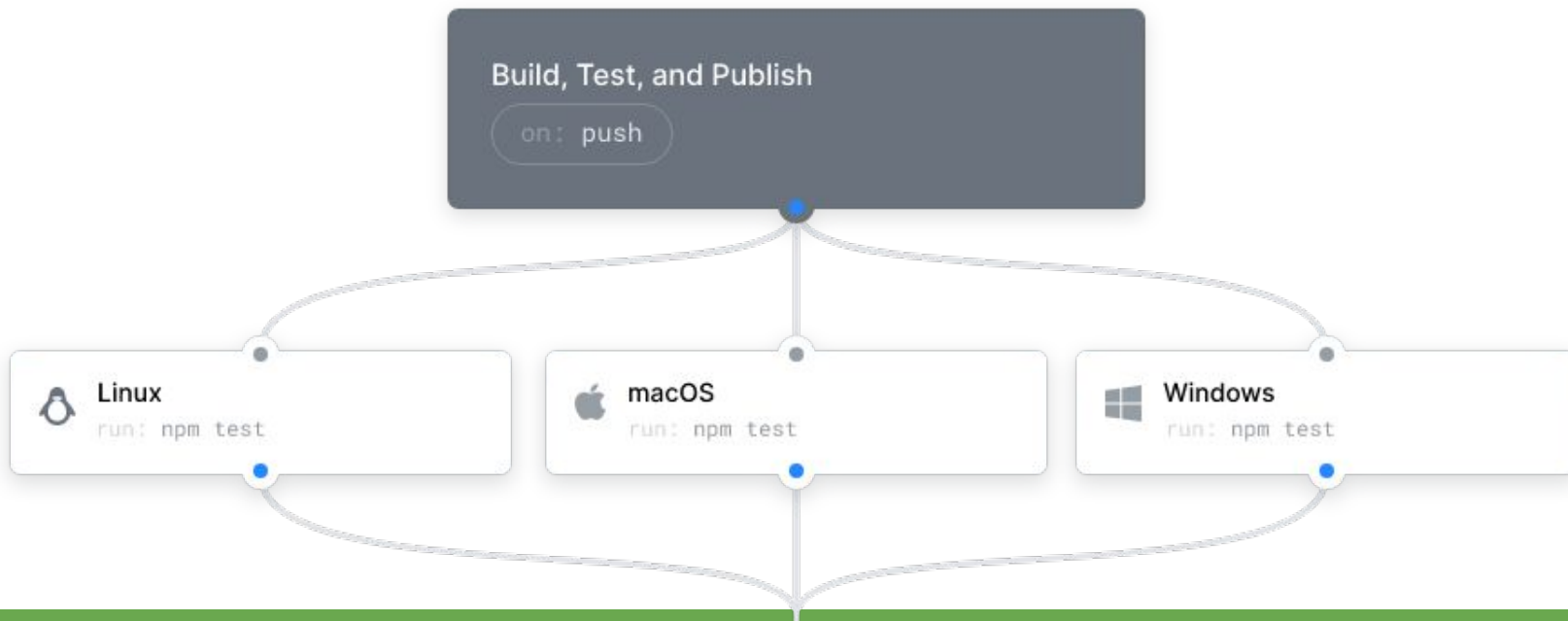
# Github ecosysteem

- Veel meer dan enkel code repositories
  - Issue tracking
  - Kanban & projectomvolging
  - Wiki & documentatie
  - Releases
  - Security scans / dependency scans
  - CI/CD
  - ....



# Github actions

- Automated workflows (= pipelines)
  - Machines in de cloud
  - Of self hosted runners





# Github actions

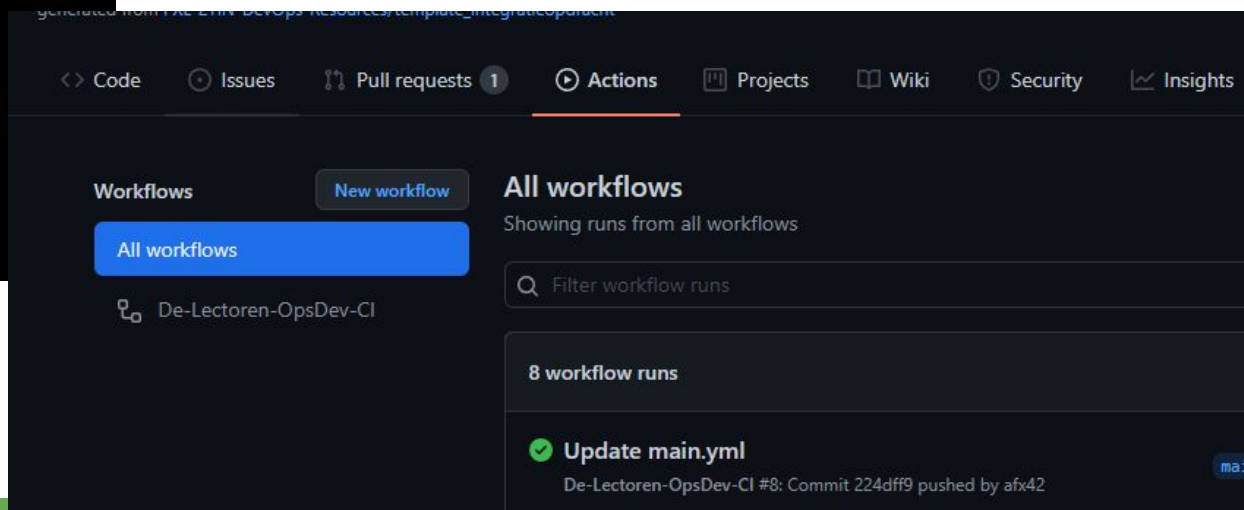
- Automated workflows (= pipelines)
  - Machines in de cloud
  - Of self hosted runners

```
-- hello-world (repository)
```

```
| |__ .github
```


```
| |__ main.workflow
```



```
|
```







# Github actions


- Integratie met repository / pull requests


 **All checks have passed** [Hide all checks](#)  
4 successful checks

  **build** Successfully in 59s — build

  **test** Successfully in 59s — build

  **publish** Successfully in 59s — build

 **This branch has no conflicts with the base branch**  
Merging can be performed automatically.

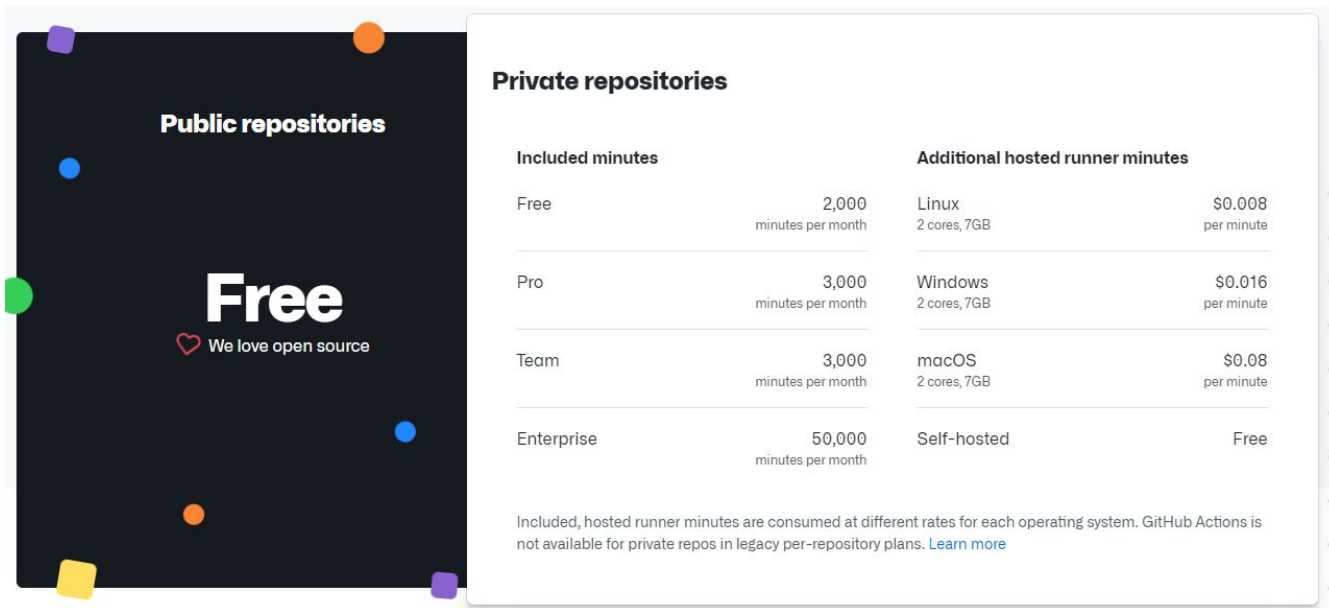
**Merge pull request** 

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



# Github actions

- Ingebouwde secret store (=credential / secrets manager)
- Integratie met release packages binnen Github zelf
  - Code, artifacts, containers, ...



Included minutes		Additional hosted runner minutes	
Free	2,000 minutes per month	Linux 2 cores, 7GB	\$0.008 per minute
Pro	3,000 minutes per month	Windows 2 cores, 7GB	\$0.016 per minute
Team	3,000 minutes per month	macOS 2 cores, 7GB	\$0.08 per minute
Enterprise	50,000 minutes per month	Self-hosted	Free

Included, hosted runner minutes are consumed at different rates for each operating system. GitHub Actions is not available for private repos in legacy per-repository plans. [Learn more](#)

# Heroku

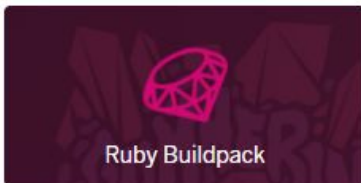
- Managed cloud platform
  - Zowel configureerbaar binnen de GUI (web based) of via de CLI (herokuCLI)

Heroku is a cloud platform that lets companies build, deliver, monitor and scale apps — we're the fastest way to go from idea to URL, bypassing all those infrastructure headaches.


# Heroku

- Gebruikt definities van applicaties om heel veel 'infra-stuff' voor ons te doen
- De opzet van een java app is vaak dezelfde, dit concept gebruiken ze achterliggend
  - Focus ligt op code, niet op operations
  - Handige opstap naar cloud / deployment pipelines

Officially Supported Buildpacks [\(What is Officially Supported?\)](#)




# Heroku



Personal


<

>



aoe2-pxl

GitHub

 d-ries/age-of-empires-II-api

Overview

Resources

Deploy

Metrics

Activity

Access


Settings

App Information

App Name

aoe2-pxl


Region

 Europe

Stack

heroku-20


Framework

 Python

Slug size

103.2 MiB of 500 MiB

GitHub repo


 d-ries/age-of-empires-II-api

Heroku git URL

https://git.heroku.com/aoe2-pxl.git

Buildpacks

Buildpacks are scripts that are run when your app is deployed. They are used to install dependencies for your app and configure your environment. [Find new buildpacks on](#)

 heroku/nodejs

Add buildpack

X

# Opgave

- OpsDev - Concurrentie!
- Cloud based
  - Geen eigen infrastructuur
- Github ecosysteem
  - Github repository
  - Github actions
  - **Github secrets**
- Deployments naar het Heroku platform

