DevOps 2TIN Chapter 10

Integratieoefening







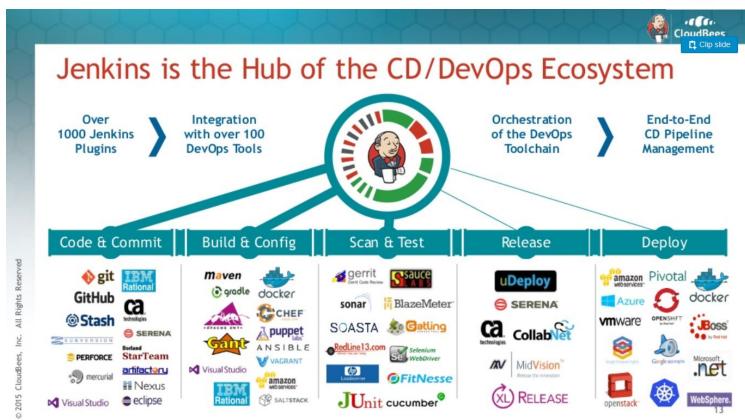
Integratieoefening

Recap
Github actions
Heroku



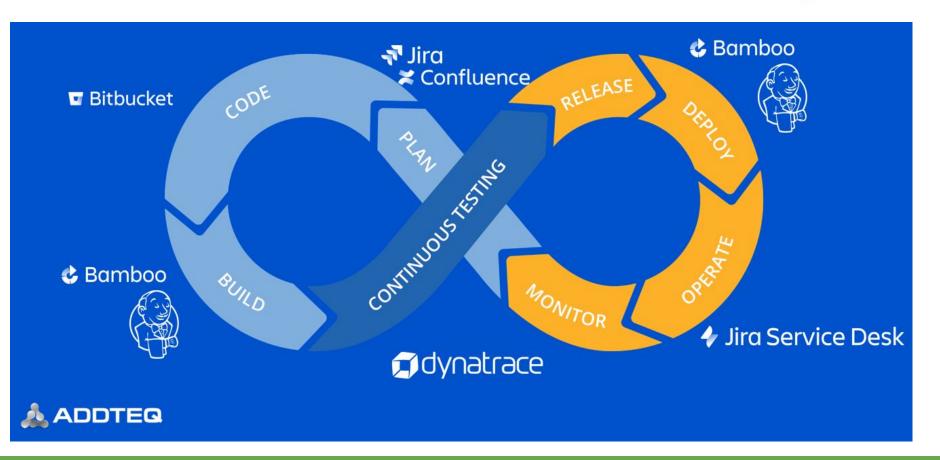
Recap





Recap

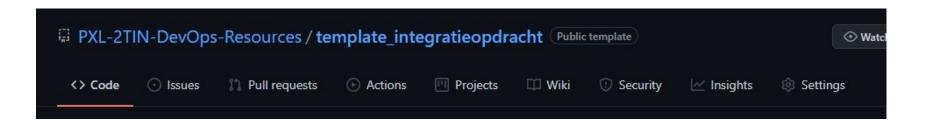




Github ecosysteem

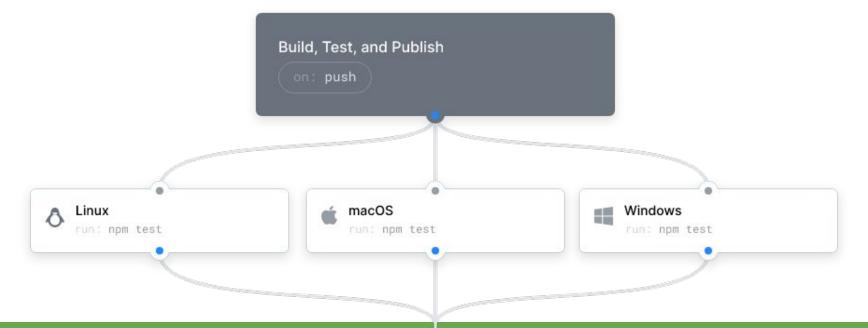


- Veel meer dan enkel code repositories
 - Issue tracking
 - Kanban & projectomvolging
 - Wiki & documentatie
 - Releases
 - Security scans / depdendency scans
 - o CI/CD
 - 0



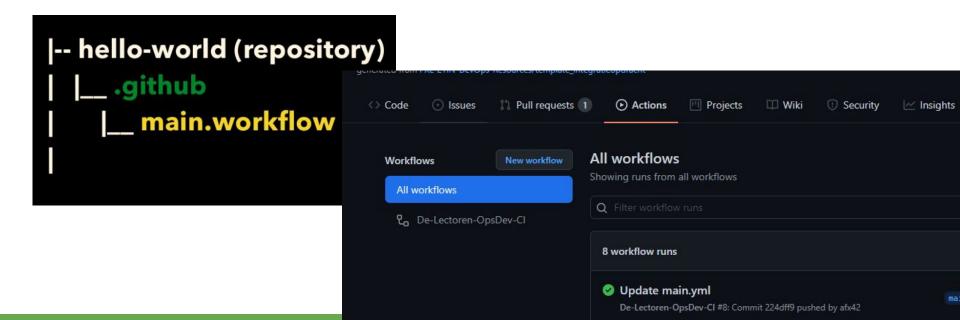


- Automated workflows (= pipelines)
 - Machines in de cloud
 - Of self hosted runners



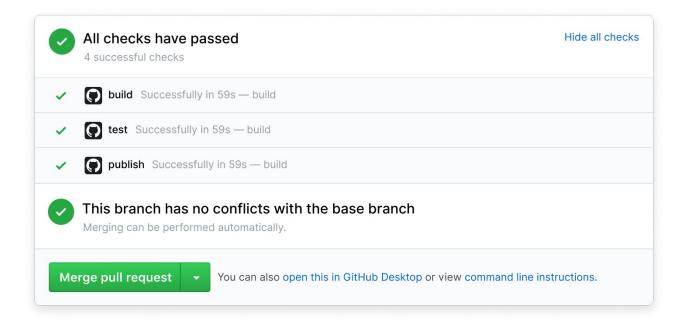


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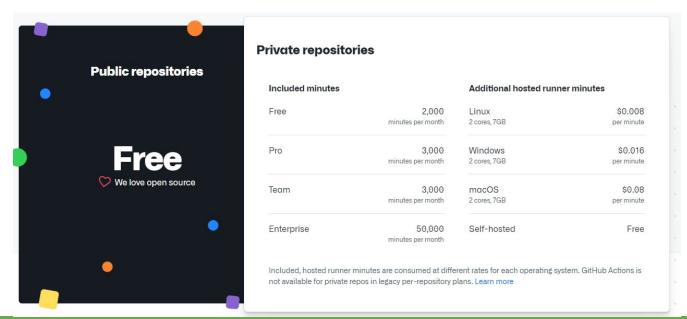


Integratie met repository / pull requests





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



Azure



- cloud computing platform
 - verschillende services: compute, storage, networking, etc.
 - pay-as-you-go pricing model met enkele "always free" services
- Ontwikkeld door Microsoft
- Gratis 100\$ tegoed als student + toegang tot gratis services
 - https://azure.microsoft.com/nl-nl/free/students/
 - https://azure.microsoft.com/en-us/pricing/free-services/



Azure App service



- Een service om eenvoudig applicaties te hosten in de cloud
- Eenvoudige integratie met GitHub Actions
- Weinig tot geen "operations" kennis nodig
- Ondersteuning containers!
 - Kleine introductie lab:
 https://learn.microsoft.com/en-us/training/modules/deploy-run-container-app-service/
- Always free onder bepaalde voorwaarden!

	Free Try for free	Basic Dedicated environment for dev/test
Web, mobile, or API apps	10	Unlimited
Disk space	1 GB	10 GB
Maximum instances	2	Up to 3
Custom domain	72	Supported
Auto Scale	2	=
Hybrid Connectivity	72	Supported
Virtual Network Connectivity	_	Supported
Private Endpoints	~	Supported
Compute Type	Shared	Dedicated
Pay as you go price	Free	\$0.018 /hour

Opgave



- OpsDev Concurrentie!
- Cloud based
 - Geen eigen infrastructuur
- Github ecosysteem
 - Github repository
 - Github actions
 - Github secrets
- Deployments naar het Azure cloud platform (Azure app services)



