DevOps 2TIN Recap





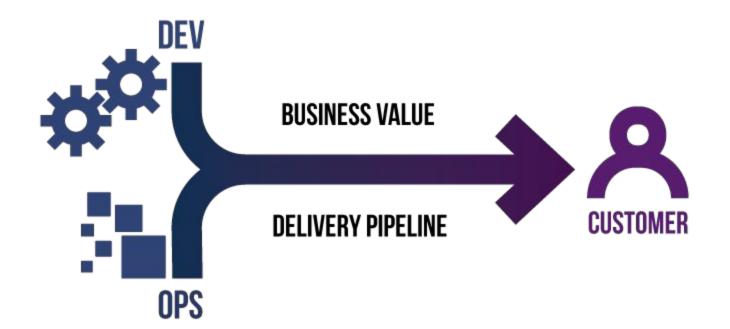
Recap



• 3 ways

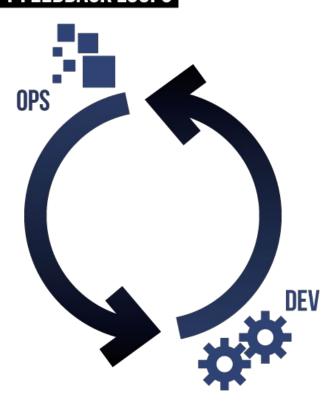
THE FIRST WAY CREATE A DELIVERY SYSTEM





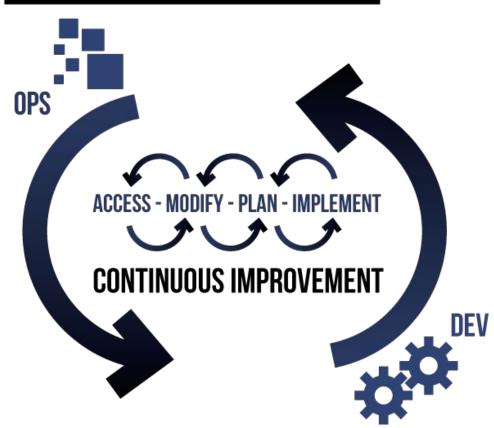
THE SECOND WAY AMPLIFY FEEDBACK LOOPS





THE THIRD WAY LEARN & EXPERIMENT CONTINUOUSLY





DevOps 2TIN Chapter 3

Source control







Source control

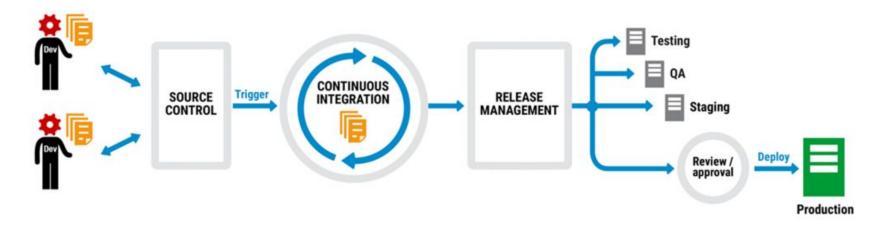
Recap & general use
Git & Github
Branching
Github flow
Pull requests



Waarom source control



single source of truth (belangrijk binnen flow!)



Waarom source control



Samenwerken als team aan dezelfde code



Waarom source control



Feedback over nieuwe releases van de code





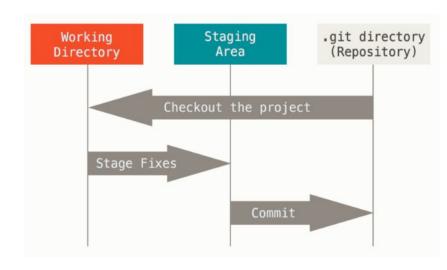


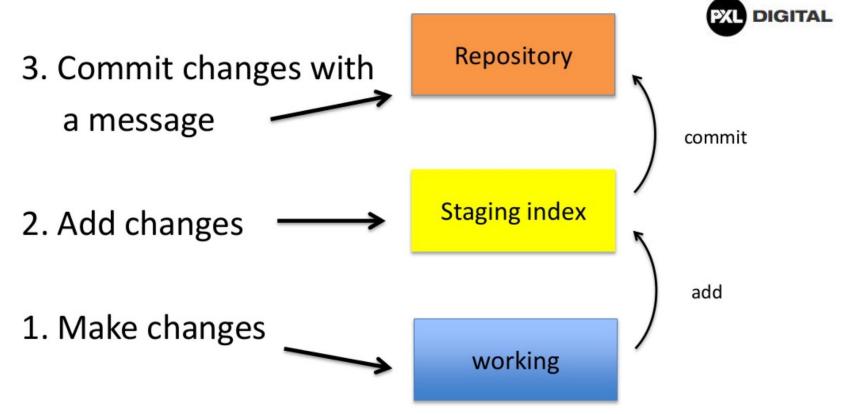
Recap & general use

- Source control
- Waar voorzien:
 - Software code
 - Infrastructure as code
 - (tekst)documenten
 - 0 ...
- Git, SVN, TFS, ...
 - 0 ...









Pluralsight - Git basics recap (G. Cleeren)



- Commit messages
 - geeft feedback over wijzigingen
 - Duidelijke flow in aanpassingen code
 - https://chris.beams.io/posts/git-commit/
- Multi line commits
 - https://git-scm.com/book/en/v2/Customizing-Git-Git-Configuration

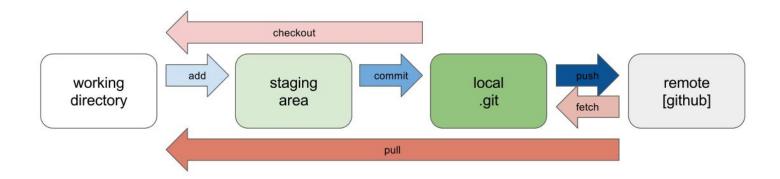
```
Subject line (try to keep under 50 characters)

Multi-line description of commit,
feel free to be detailed.

[Ticket: X]
```

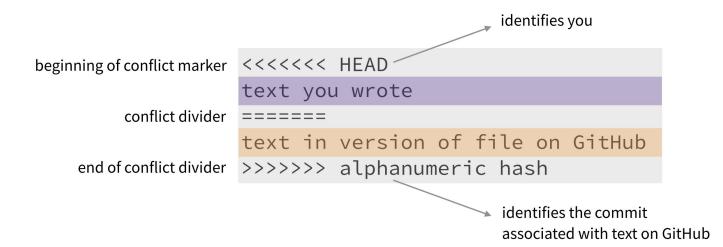


Pushing code to a remote, central location





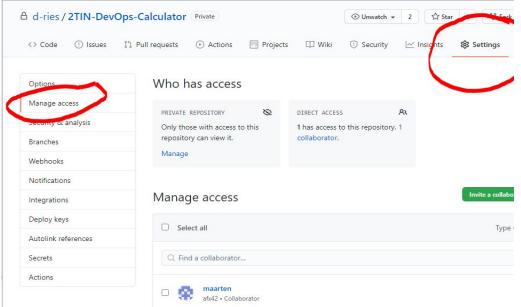
- Merge conflicts
 - Changes on the same line
 - Changes in a deleted file



Github - Collaboration & permissions



Samenwerken op github repositories



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Branching strategie

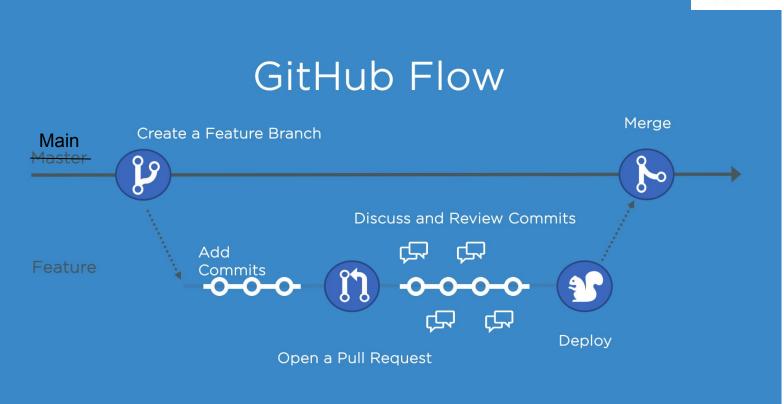


- Strategie voor het (samen)werken met versiebeheer
 - Verschillende varianten
- Aftakkingen van de master main branch tijdens het ontwikkelen
- Duidelijke Flow doorheen het ontwikkelproces

https://guides.github.com/introduction/flow/

Github Flow



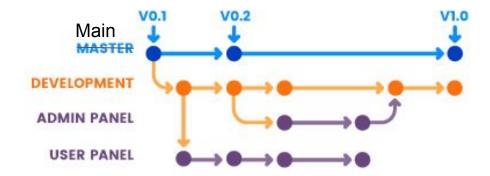




- 1. Een developer maakt een feature in een aparte branch in zijn lokale repo
- 2. De developer pusht de branch naar de centrale repository op Github
- 3. De developer start een pull request via Github
- 4. De rest van het team evalueert de code, geeft feedback, past aan, ...
- 5. De verantwoordelijke van de repository merged de wijzigingen naar de main branch en sluit de pull request



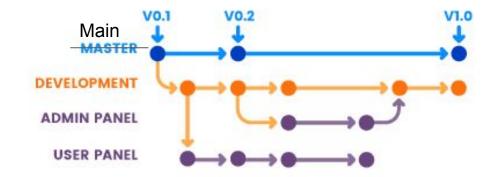
- Branches zijn aftakkingen
 - default branch = main / development branch



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- Main branch = releases
- Development branch =



https://www.atlassian.com/git/tutorials/using-branches



Branches maken

```
$ git branch nieuwe-branch
```

Of

\$ git checkout -b nieuwe-branch



- Branches gebruiken
 - bestanden in working dir worden overschreven

```
$ git checkout branch-naam
```

Branches bekijken

```
$ git branch -a
```



Branches pushen naar github

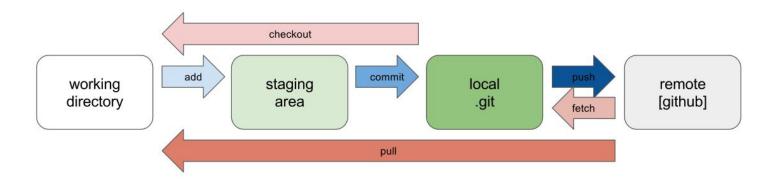
```
$ git push origin nieuwe-branch
```

Branches pullen van github

```
$ git fetch --all
```

https://www.atlassian.com/git/tutorials/using-branches/git-checkout





https://www.atlassian.com/git/tutorials/using-branches/git-checkout



- Merging a branch
 - make sure you are on the main branch

```
$ git merge nieuwefeature
```

Deleting branches

```
$ git branch -d nieuwefeature
```

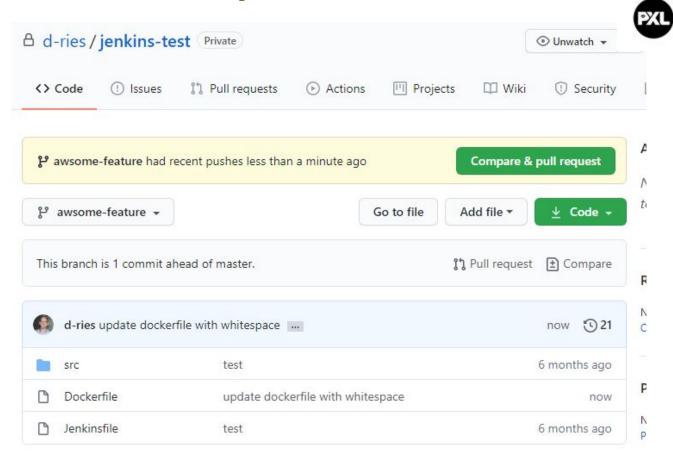
Gebruik pull requests om een merge te doen!

https://www.atlassian.com/git/tutorials/using-branches/git-merge



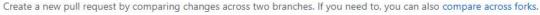
- Signaal geven dat code klaar is voor merge
- Waarom pull requests?
 - Evaluatie van code voor het mergen
 - Communicatie tussen developers, feedback voorzien
- Inhoud pull request:
 - o comments, omschrijving, tag collega's, ...

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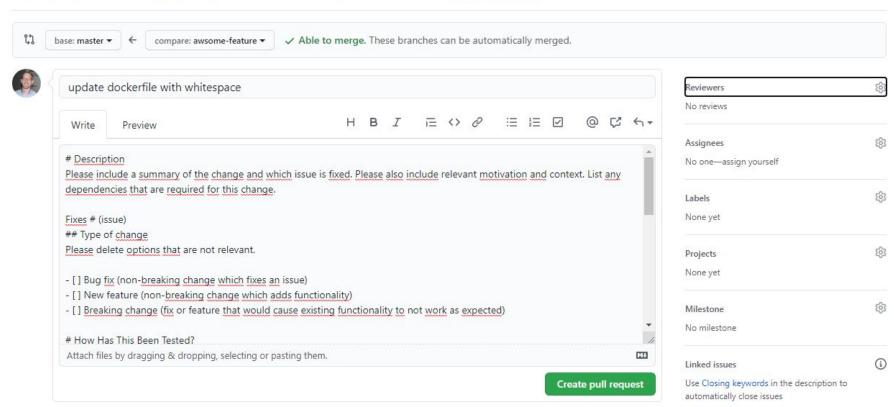


DIGITAL

Open a pull request





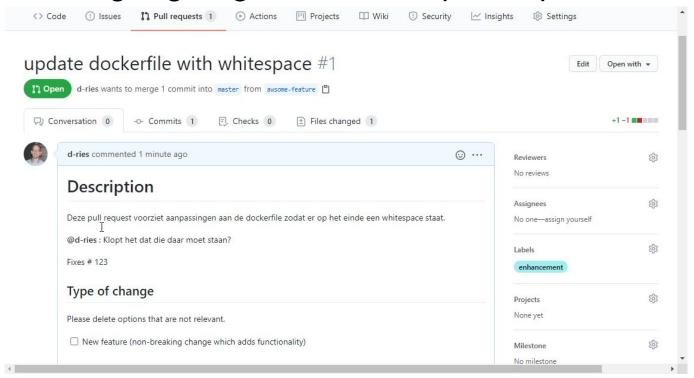




- Pull request templates
 - maak file pull_request_template.md aan in je root directory van de repository
 - Markdown syntax (md)



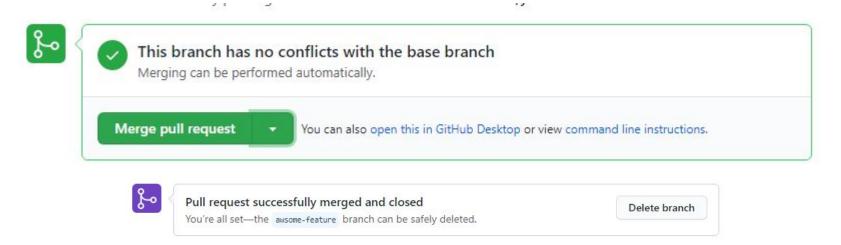
Commenting & giving feedback on pull requests



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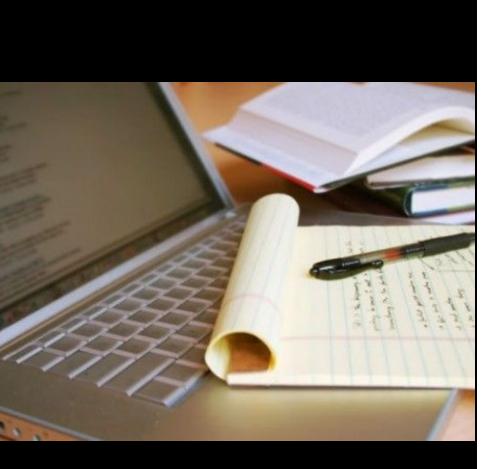


- Merging pull requests
 - Approval van meerdere teamleden?
 - Merge conflicts?









Assignments

Introductieopdracht Source control

