

Azure DevOps YAML CI/CD pipelines - praktické ukázky

Jan Vilímek

Principal Software Engineer @ Oriflame

jan@vilimek.cz

 @vilimekJan

Motivation

- Last time I have talked mostly in front of the presentation
- This time we would go more deep
- We will see lot's of code, so brace yourselves!



Agenda

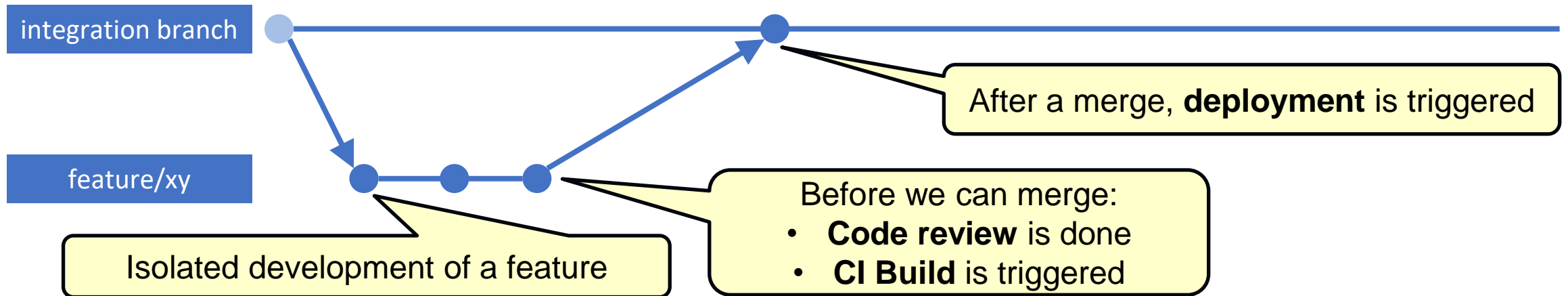
1. Brief introduction to CI/CD idea
2. Code examples
 1. "simple" CI
 2. "simple" CD
 3. CI/CD pipeline shared
 4. Calling it
 5. (if time) setting up a new project
 6. (if time) pipeline secrets
 7. (if time) GitHub actions migration



Brief introduction to CI/CD idea

About CI/CD pipelines

- CI/CD: continuous **integration** and **deployment**



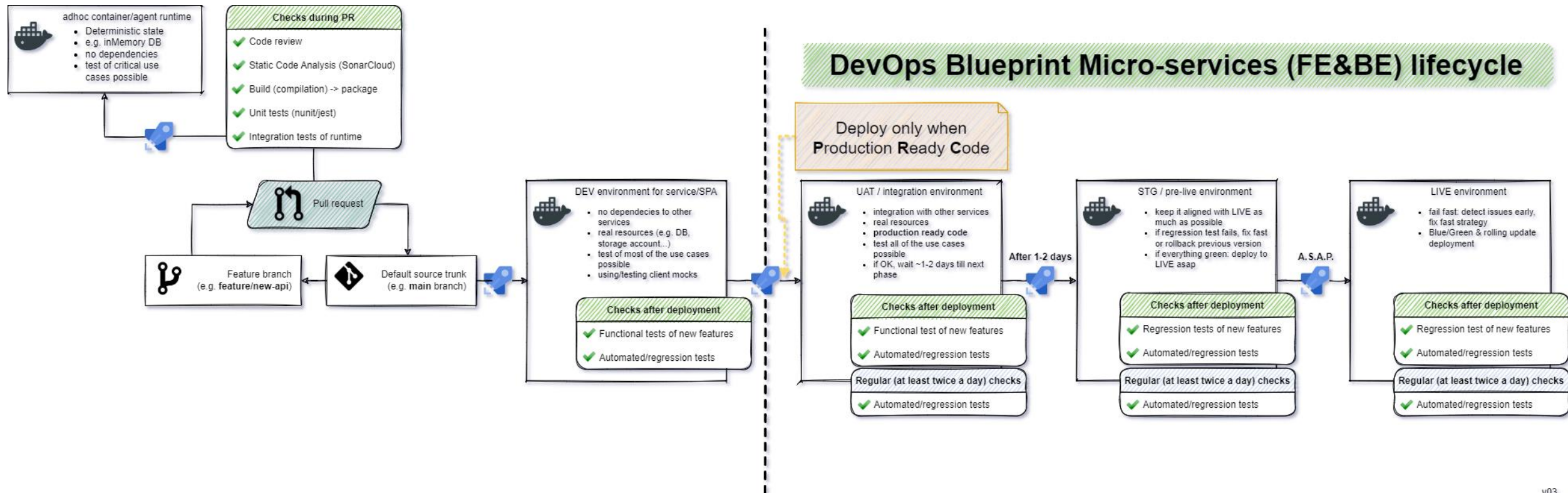
- Needs to be fully automated
 - Triggered via pull request, push
- CI is about build, unit tests
- CD is about deployment (pushing/deploying package)



Oriflame Micro-Service development lifecycle

- **Focused** on micro service&frontend development
 - ~60 microservices
 - ~50 single page application & components
- **Reason:** to align teams and to provide a clear process
- (full) implementation **in progress**

Oriflame Micro-Service development lifecycle



Let's deep dive to the code

<https://dev.azure.com/pipeline-examples/overview>

Notes

- Azure DevOps experience for free projects ☹️
 - Agents
 - Forks
- Security
 - Some patterns in the examples, but not fully ready
 - Ideally no “dev” code execution in the deploy pipeline
 - Approvals: great but time consuming

Self hosted vs azure hosted pipelines

- Self hosted
 - 😊 May re-use tools & package etc caches
 - 😞 May be slower when downloading/using resources
 - 😊 😞 Local network access (potential security attack vector)
 - 😊 more deterministic state
 - 😞 you need to patch, upgrade tools,...
- Azure hosted
 - 😞 Not much cores/mem
 - 😞 😊 Every time from scratch ("cache" task may help)
 - 😊 no need to take care about OS patches, tools...
 - 😞 unpredictable issues because of patches/issues in tools

That's all folks, thank you!

Jan Vilímek

Principal Software Engineer @ Oriflame

jan@vilimek.cz

 [@vilimekJan](https://twitter.com/vilimekJan)