



# Moderne CI/CD-Prozesse mit GitHub Actions

SPEAKER

Donnerstag, 24. Februar 2022

12:00 - 13:00



Neno Loje

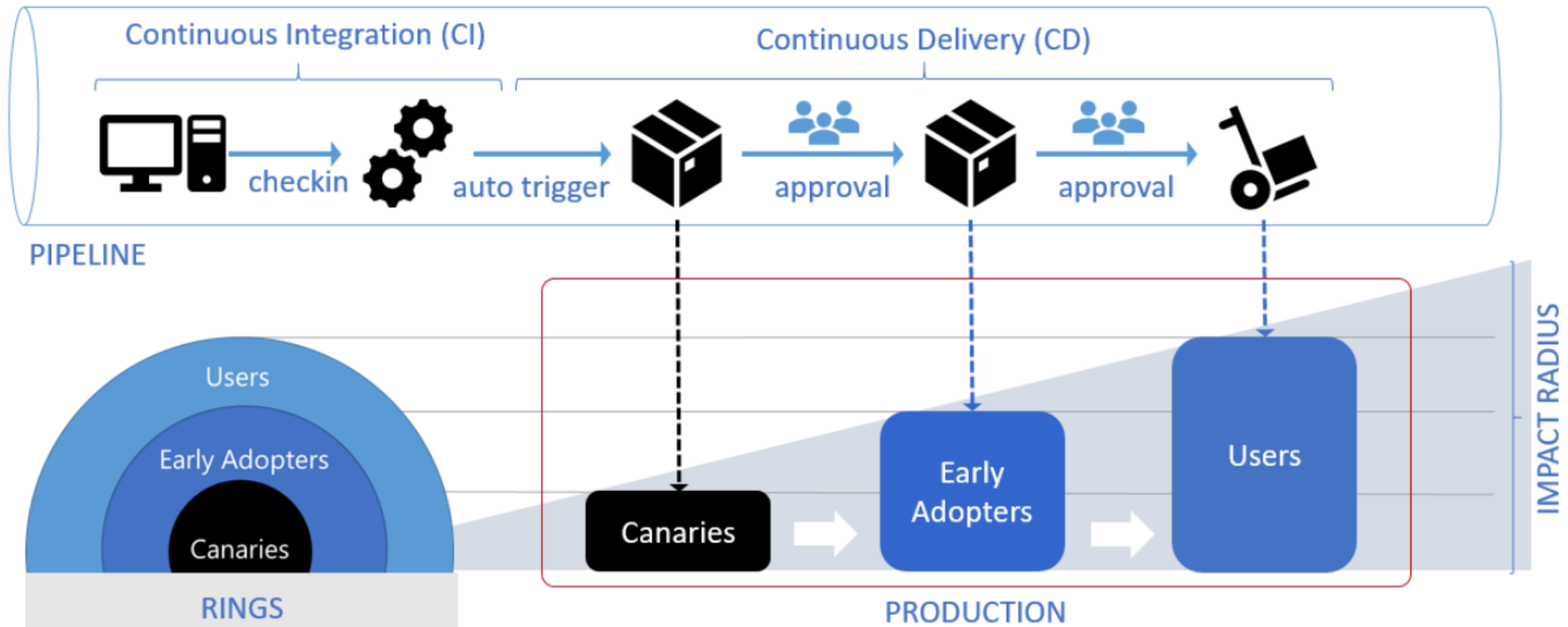


Nico Orschel

# Agenda

- Intro
  - Konzepte / Begrifflichkeiten
  - Hosting Optionen
- Demos
  - Repo
  - Issues
  - WebHooks (Alexa)
- Fazit / Fragen

# Begrifflichkeiten – Pipelines



Quelle: <https://github.com/ALM-Rangers/Guidance/blob/master/src/Stories/our-journey-of-transforming-to-a-devops-culture.md>

# Demo 1 - Basics

## Basic:

- Variables, ...
- .NET Core App (Nuget Restore, Build)
- Versionierung
- Upload Artifact (Drop)

## Advanced:

- Static Code / Sec-Analyse

# Begrifflichkeiten – GitHub Actions

Actions

Event

Runner

Job

Step

Workflow

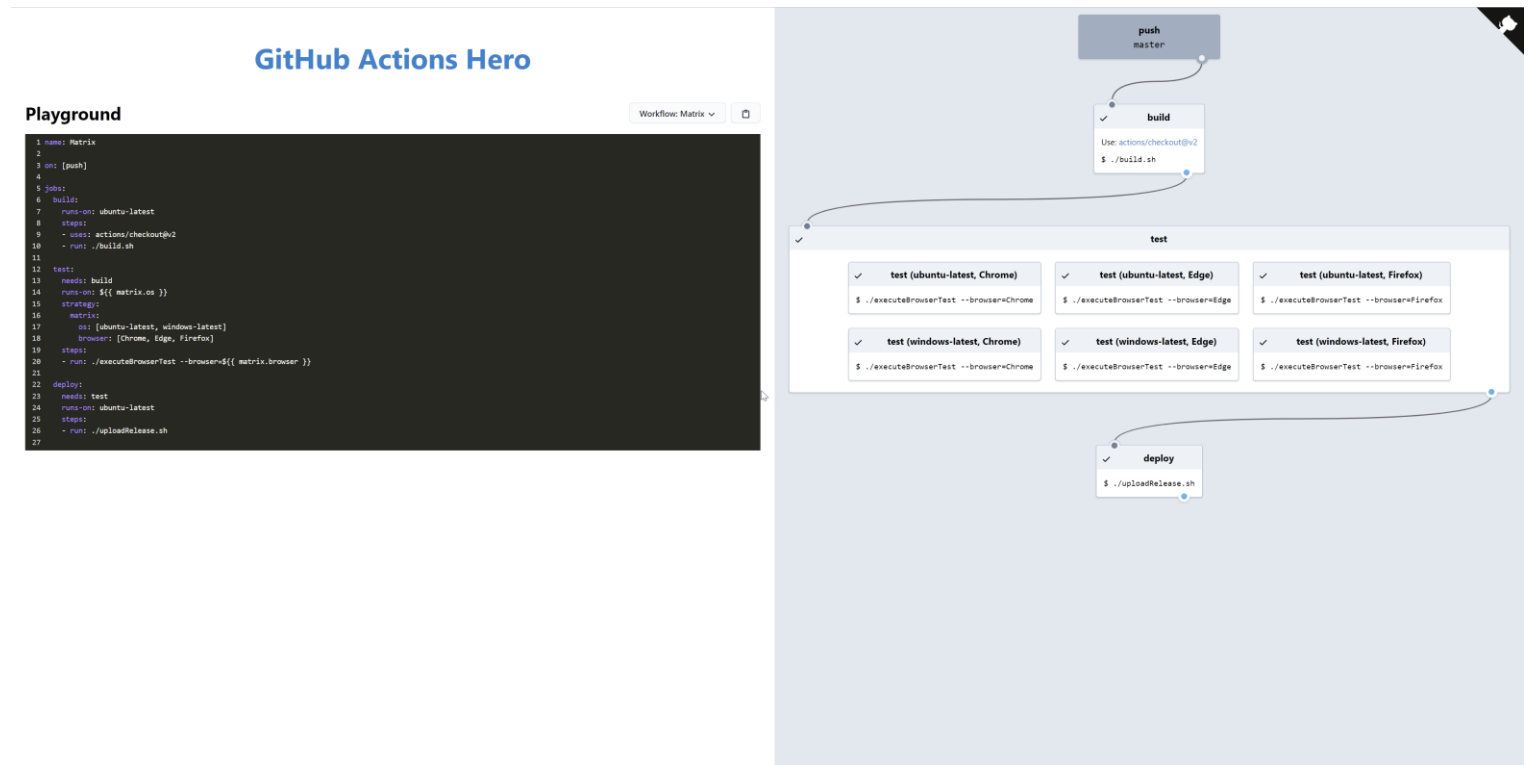
# Runner

- Runner = Build Agent
- Verschiedene Hosting Optionen
- Cloud und On-Premise
- Plattformen: Windows, Linux, MacOSX

# GitHub Actions Hero

“... emulates the workflow execution. Many features are supported, but not everything. And nothing is executed.”

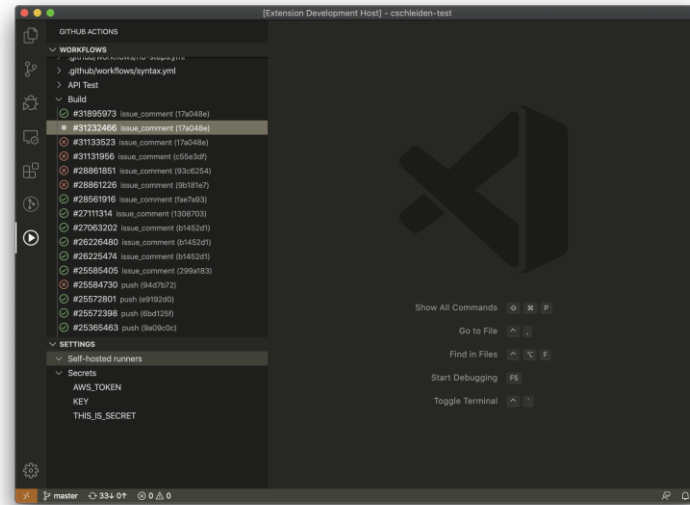
- <https://github.com/cschleiden/github-actions-hero>
- <https://github-actions-hero.vercel.app/>



# Visual Studio Code - GitHub Actions

- <https://marketplace.visualstudio.com/items?itemName=cshleiden.vscode-github-actions>
- <https://github.com/cshleiden/vscode-github-actions>

```
7
8 jobs:
9   build:
10    runs-on: [self-hosted, laptop]
11
12    env:
13      JOB_VALUE: 23
14
15    steps:
16
17
```





# Demo 2 - Issue

- Trigger: Issue Create
- Text hinzufügen, Liken, ...
- Issue schliessen

# Demo 3 - Alexa

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- Issue via Alexa und Actions anlegen
- Alexa Voice Command via Azure Function + Alexa.Net
- WebHook Call zu GitHub
- Github: Issue anlegen, idealerweise mit Text von Alexa(Nutzer)



# Links

[https://github.com/norschel/Basta2022Spring-Demos/tree/ModernCICD with GitHubActions](https://github.com/norschel/Basta2022Spring-Demos/tree/ModernCICD%20with%20GitHubActions) Alexa Demo

[https://github.com/norschel/Basta2022Spring-Demos/tree/ModernCICD with GitHubActions](https://github.com/norschel/Basta2022Spring-Demos/tree/ModernCICD%20with%20GitHubActions)

<https://docs.github.com/en/actions/creating-actions/creating-a-javascript-action>  
[Understanding GitHub Actions - GitHub Docs](#)

<https://github.com/norschelMVP/GitHubActionsWindows>

<https://github.com/norschelMVP/BadCodeDemo>

[GitHub - github/actions-cheat-sheet: A cheat sheet for GitHub Actions](#)

[Brian the Build Bunny - YouTube](#)