





whoami?

synyx GmbH Karlsruhe

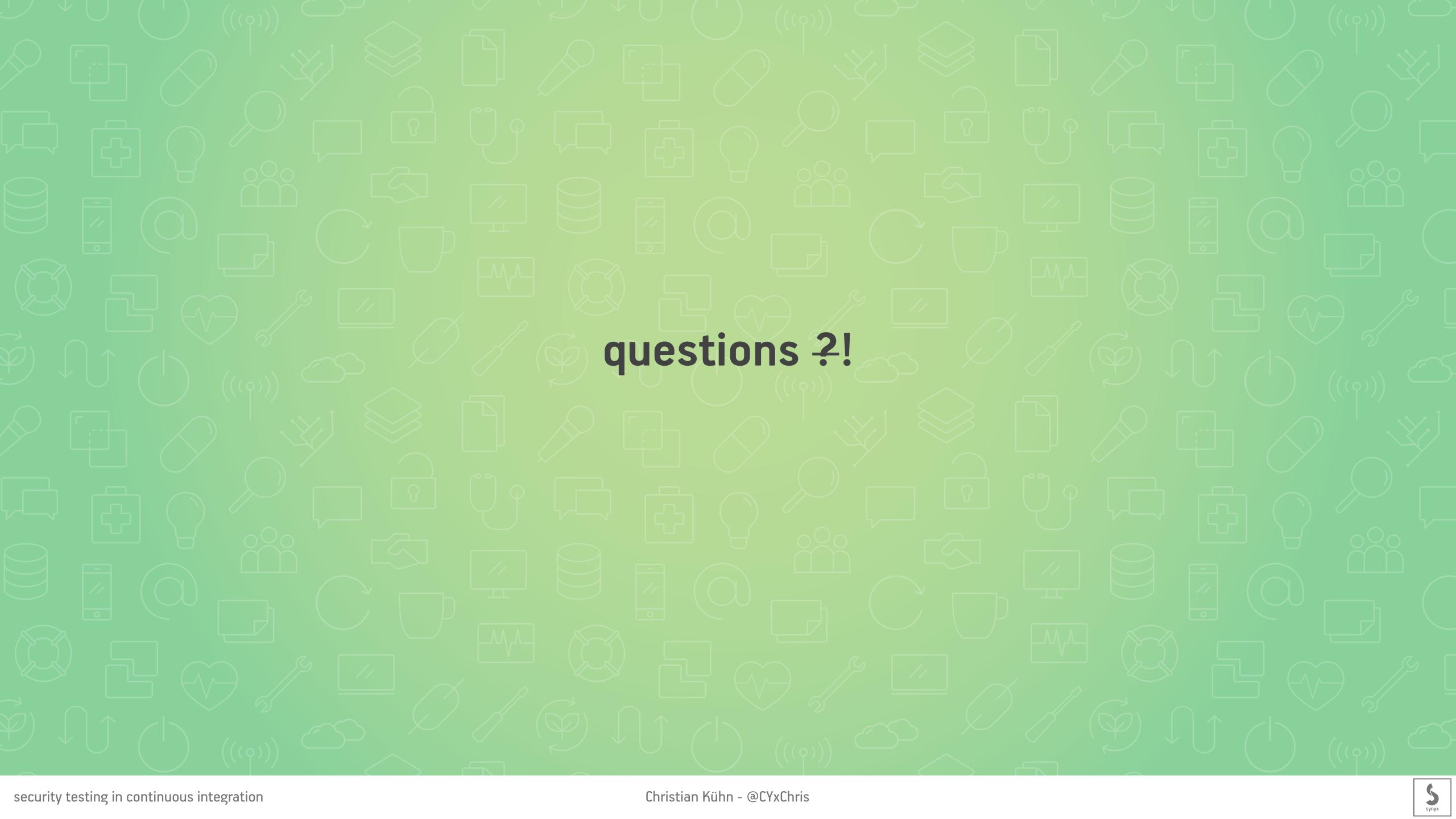
Software nach Maß
Code Clinic
Open Source

Christian Kühn Senior System Developer

#java #kubernetes #devops

@DevOpsKA Meetup Organizer





software security issues: what could possibly go wrong?

- leakage of business data
- leakage of user/customer data
- service interruption
- industry malfunction
- death ()



equifax - "Credit Monitoring"

hacked 2017
vulnerability in Apache Struts dependency

143,000,000 SSN 209,000 credit card numbers 182,000 "consumers" with PII

https://krebsonsecurity.com/2017/09/the-equifax-breach-what-you-should-know/

examples:

Mossack Fonseca - "Law Firm and coprorate service provider"

hacked 2015 vulnerability in Drupal

11.5 million leaked documents about money laundering tax avoidance corruption

https://en.wikipedia.org/wiki/Panama_Papers



negligence

priorities / lack of time

skills / training

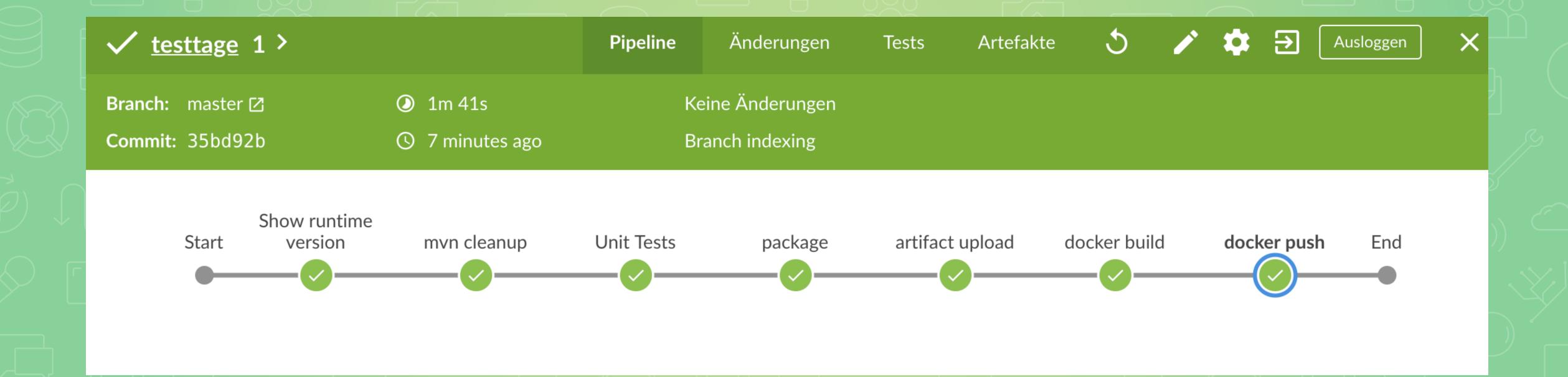
insight

"security - not my department" (or is it?)

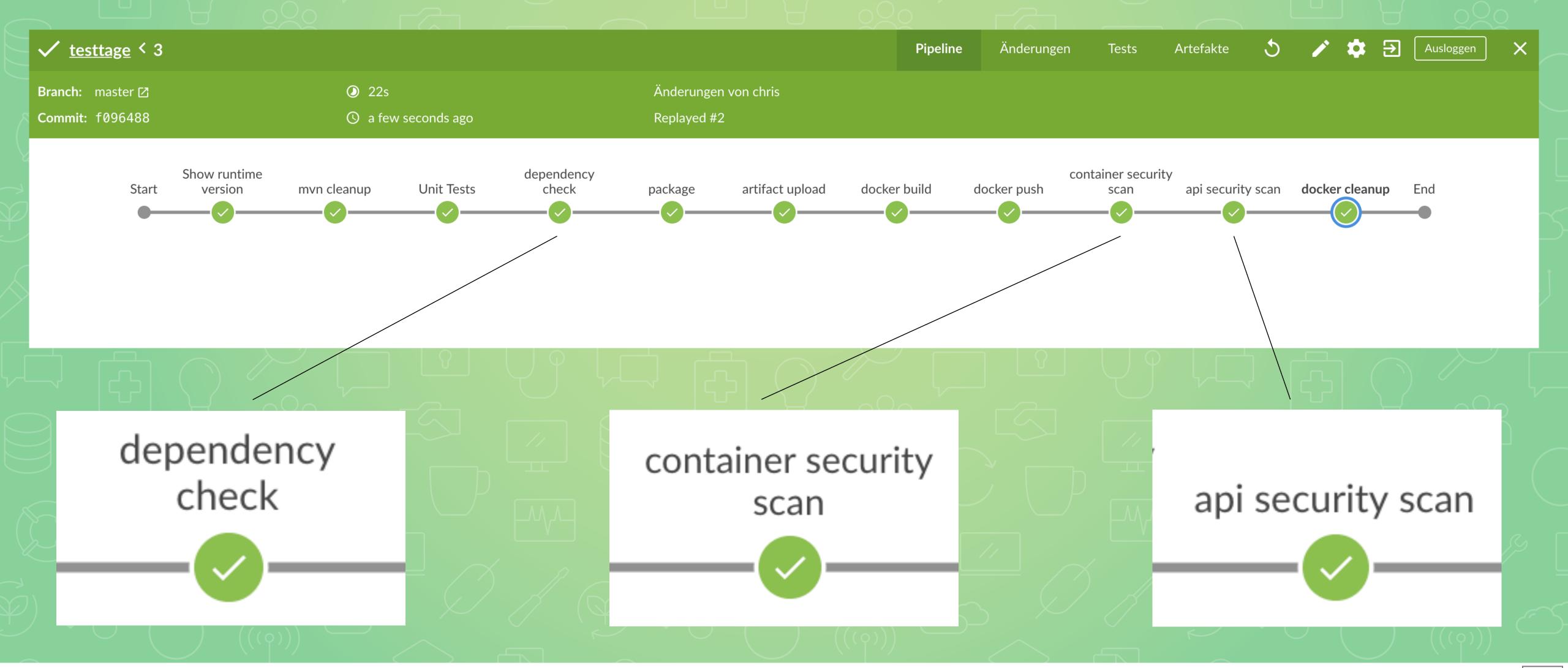


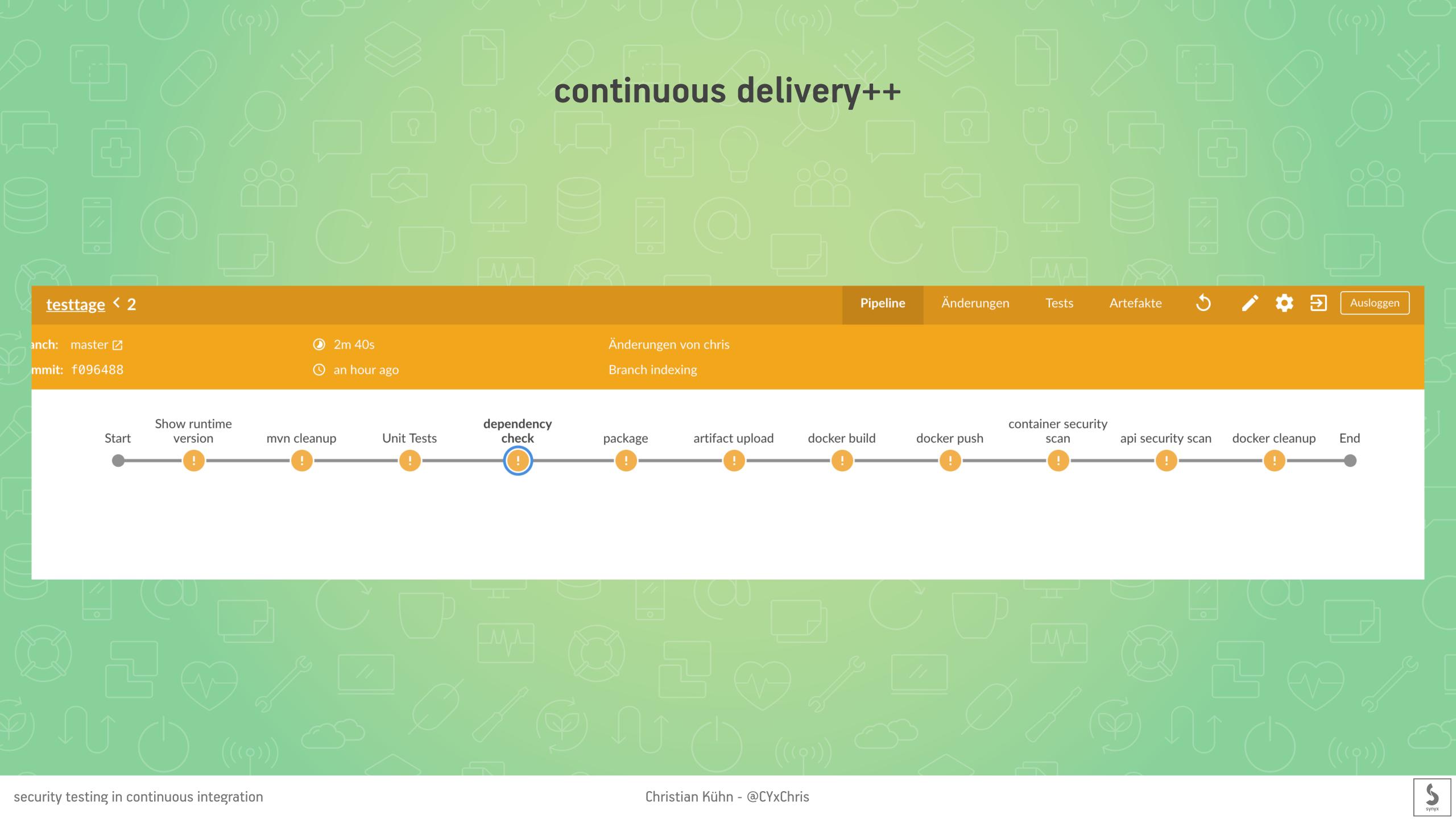


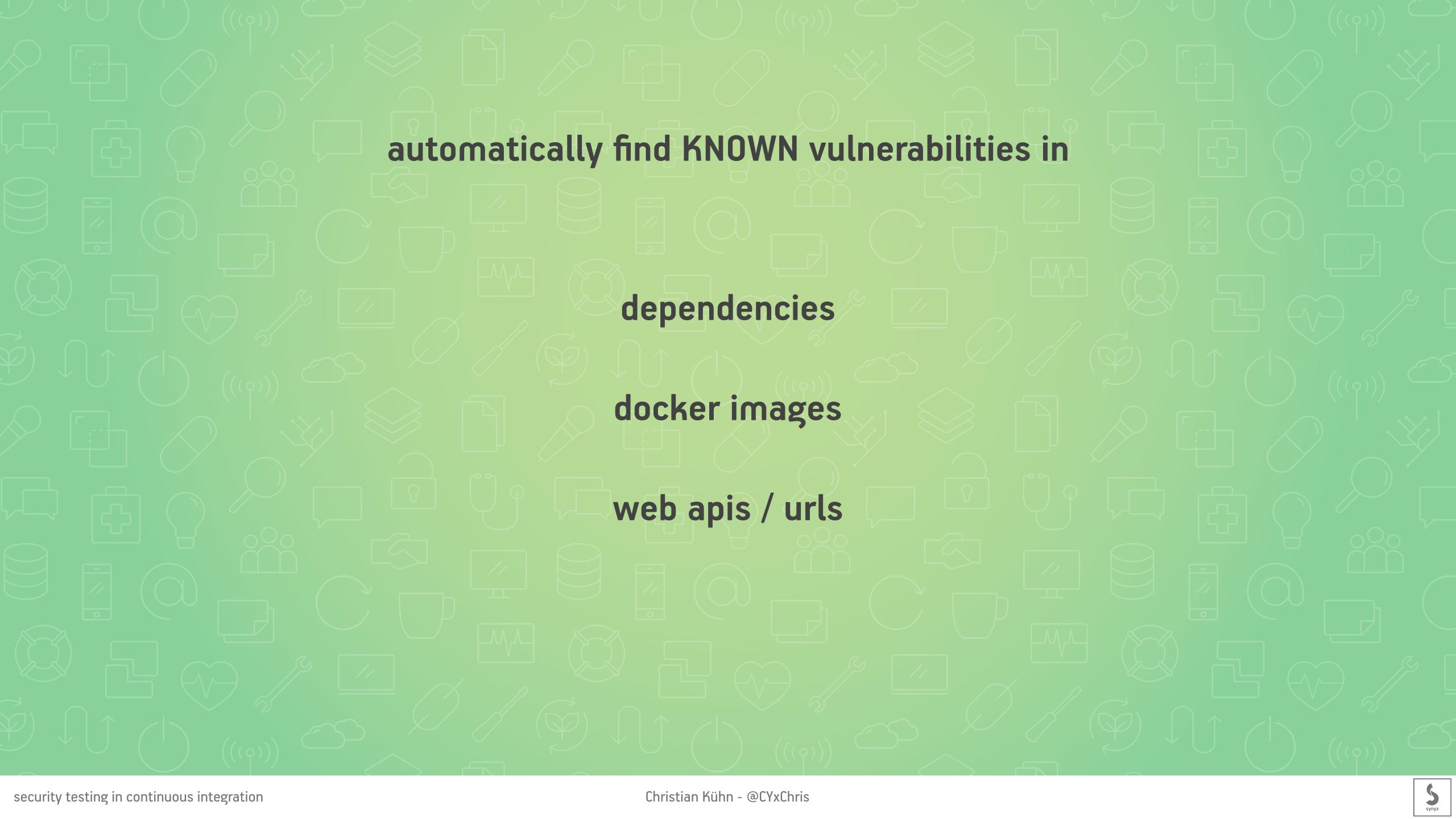
continuous delivery



continuous delivery++







CVE - Common Vulnerabilities and Exposures

vulnerability

/vʌln(ə)rəˈbılıti/
noun

1. the quality or state of being exposed to the possibility of being attacked or harmed, either physically or emotionally.

CVE - reference for publicly known information-security vulnerabilities and exposures

₩CVE-2017-5638 Detail

MODIFIED

This vulnerability has been modified since it was last analyzed by the NVD. It is awaiting reanalysis which may result in further changes to the information provided.

Current Description

The Jakarta Multipart parser in Apache Struts 2 2.3.x before 2.3.32 and 2.5.x before 2.5.10.1 has incorrect exception handling and error-message generation during file-upload attempts, which allows remote attackers to execute arbitrary commands via a crafted Content-Type, Content-Disposition, or Content-Length HTTP header, as exploited in the wild in March 2017 with a Content-Type header containing a #cmd= string.

Source: MITRE

Description Last Modified: 09/22/2017

★View Analysis Description

Impact

CVSS v3.0 Severity and Metrics:

Base Score: 10.0 CRITICAL

Vector: AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H (V3

legend)

Impact Score: 6.0

Exploitability Score: 3.9

Attack Vector (AV): Network
Attack Complexity (AC): Low
Privileges Required (PR): None
User Interaction (UI): None

Scope (S): Changed

CVSS v2.0 Severity and Metrics:

Base Score: 10.0 HIGH

Vector: (AV:N/AC:L/Au:N/C:C/I:C/A:C) (V2 legend)

Impact Subscore: 10.0

Exploitability Subscore: 10.0

Access Vector (AV): Network
Access Complexity (AC): Low
Authentication (AU): None
Confidentiality (C): Complete
Integrity (I): Complete

Availability (A): Complete

QUICK INFO

CVE Dictionary Entry:

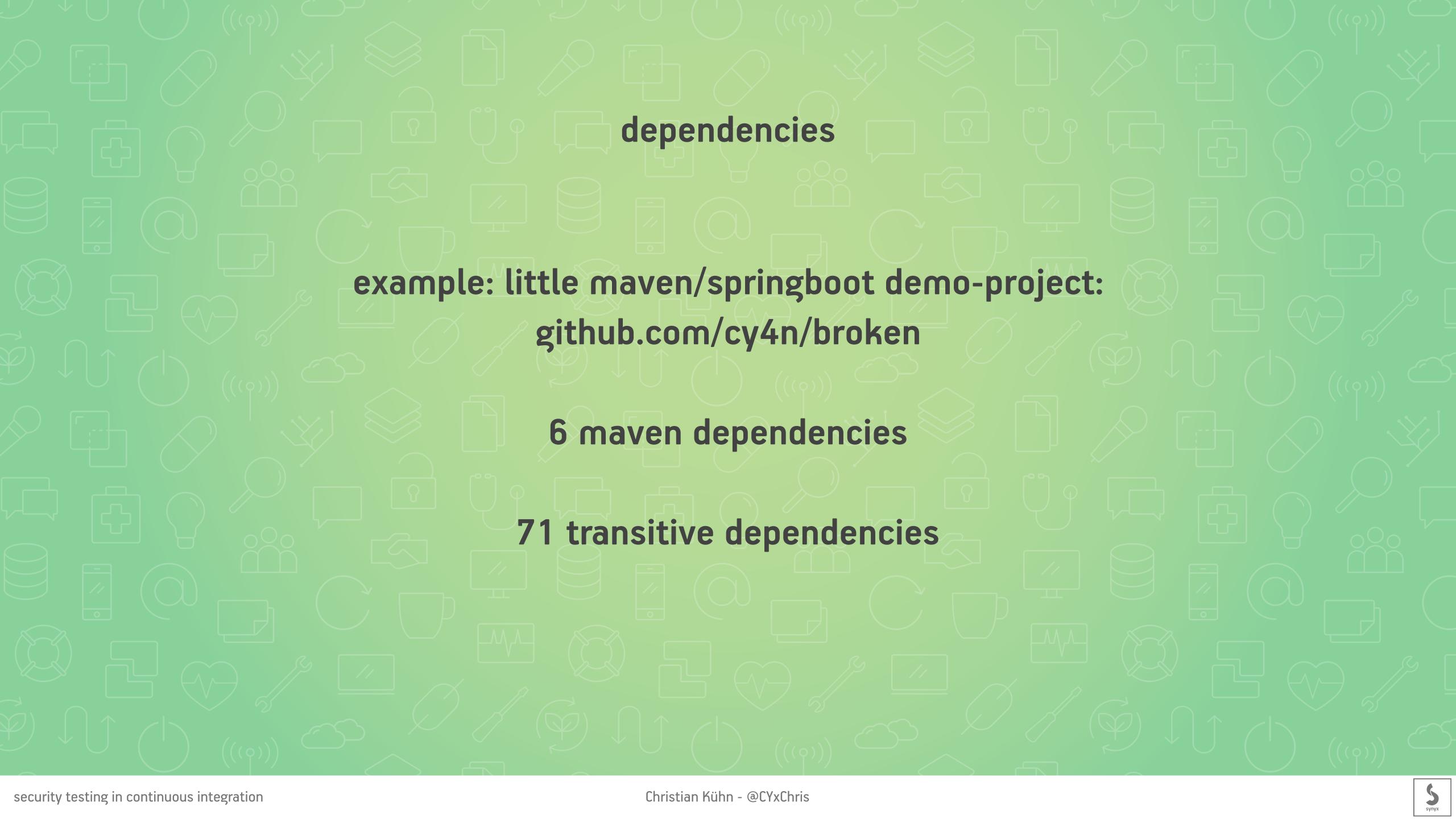
CVE-2017-5638

NVD Published Date:

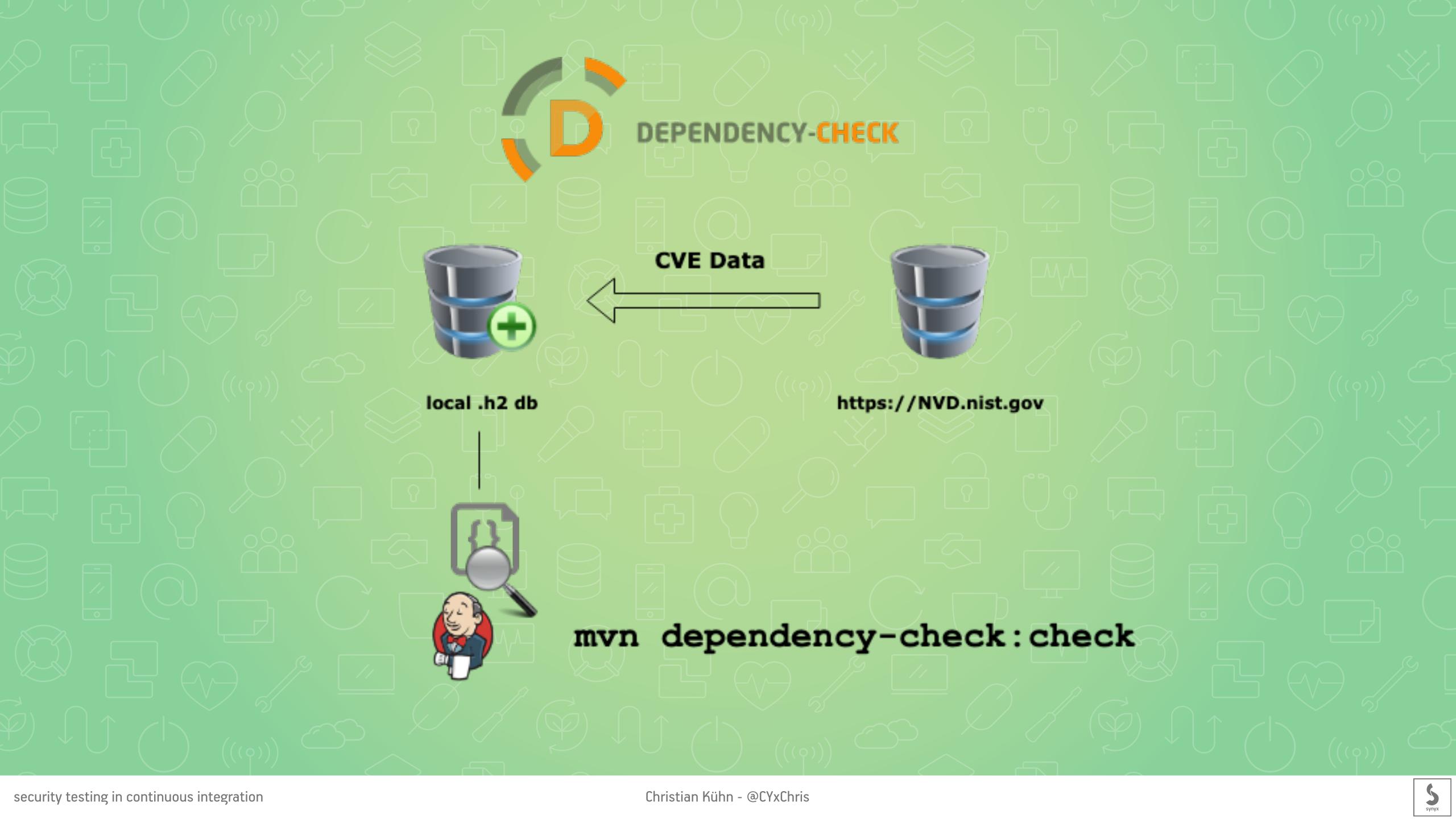
03/10/2017

NVD Last Modified:

03/03/2018





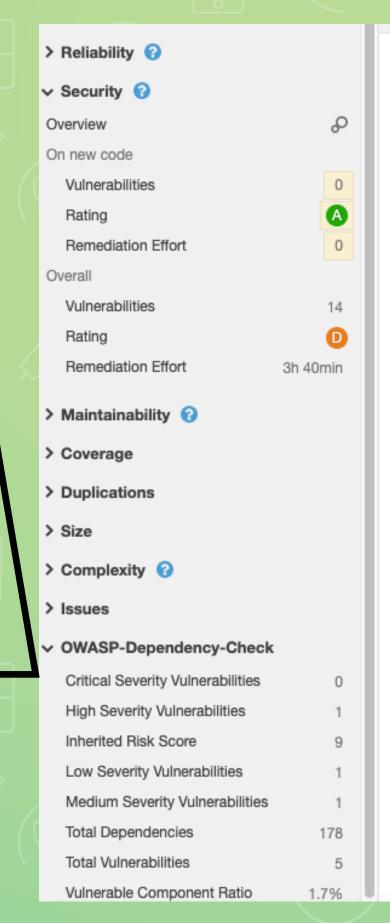


DEPENDENCY-CHECK

> Issues

→ OWASP-Dependency-Check

Critical Severity Vulnerabilities	0
High Severity Vulnerabilities	1
Inherited Risk Score	9
Low Severity Vulnerabilities	1
Medium Severity Vulnerabilities	1
Total Dependencies	178
Total Vulnerabilities	5
Vulnerable Component Ratio	1.7%

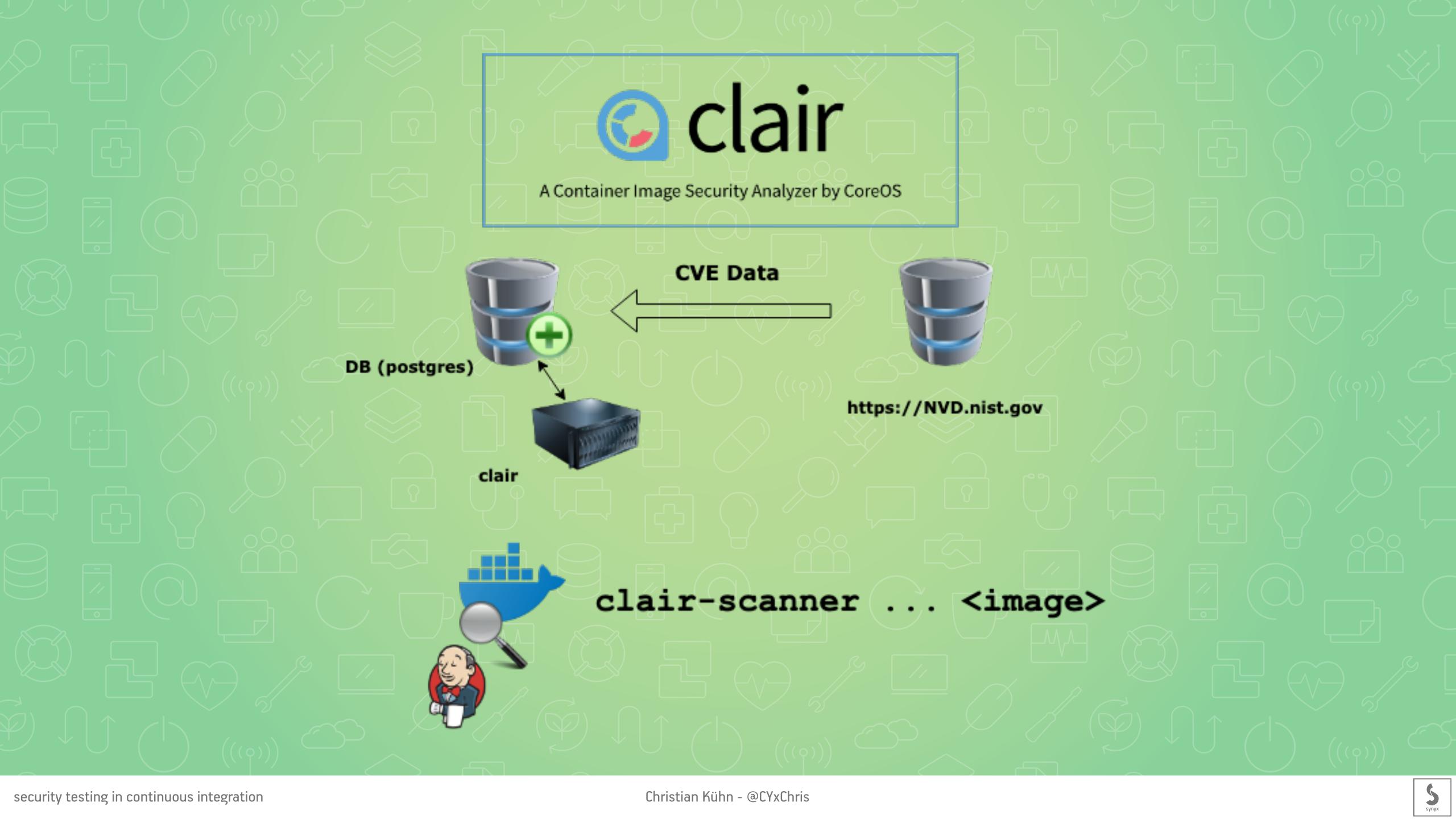


Leak Period: since 06.00.00



Get quick insights into the operational risks. Any color but green indicates immediate risks: Bugs or Vulnerabilities that should be examined. A position at the top or right of the graph means that the longer-term health may be at risk. Green bubbles at the bottom-left are best.









arminc/clair-db (nightly)



arminc/clair-local-scan

docker run -d --name db arminc/clair-db:latest

docker run -p 6060:6060 --link db:postgres -d --name clair arminc/clair-local-scan



A Container Image Security Analyzer by CoreOS

