

Security Vulnerability Management:

OWASP DefectDojo

🍪 Augsburg 🍪 @Hackerkiste, 24.10.2025

[Michael Wager](#)

Intro

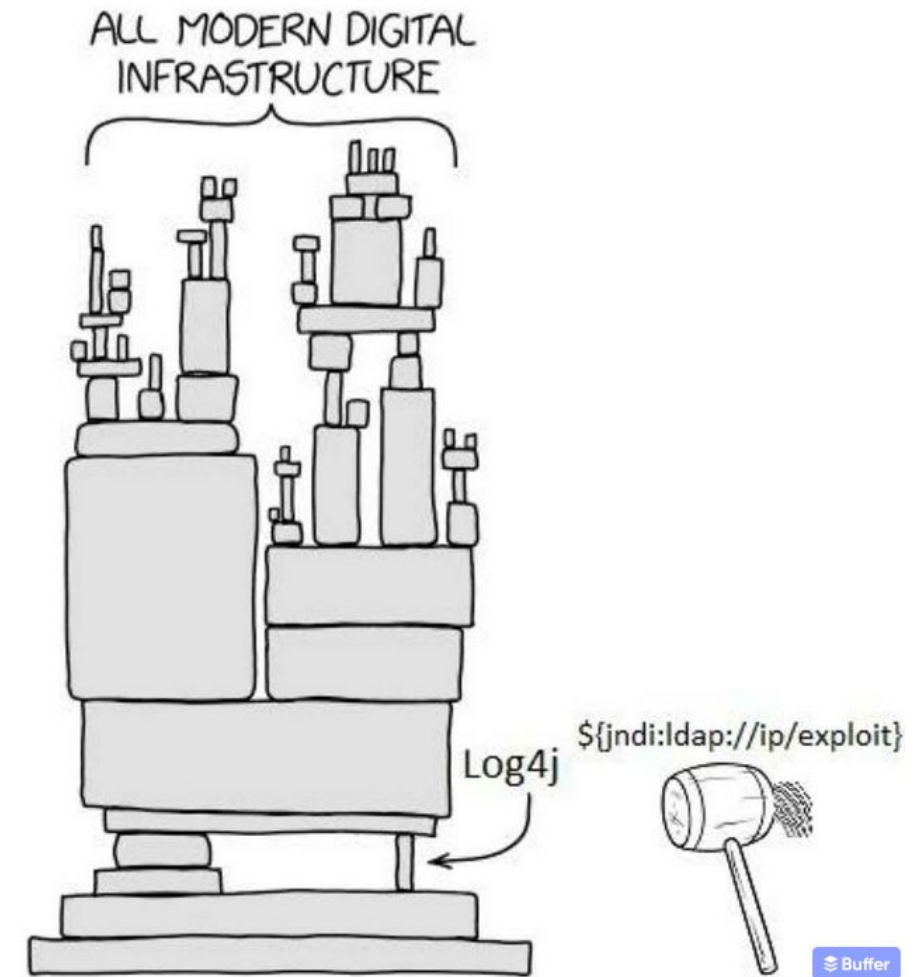


“

Some of us stopped sleeping. We all felt that either we fix it right now in the next few days, or we close this project.

– Christian Grobmeier

[Read the story behind Log2Shell](#)



About me

- Born in Augsburg 🥨👍, living in Nürnberg 🥨👎
- Bachelor 2011 & Master 2024 at TH Augsburg
- Software Engineer for 10 years (freelance)
- AppSec Consultant at secureIO (May 2022- Sep 2025)
- Since October 2025:
Senior Professional Services Engineer @ GitLab
- Website: <https://mwager.de/>

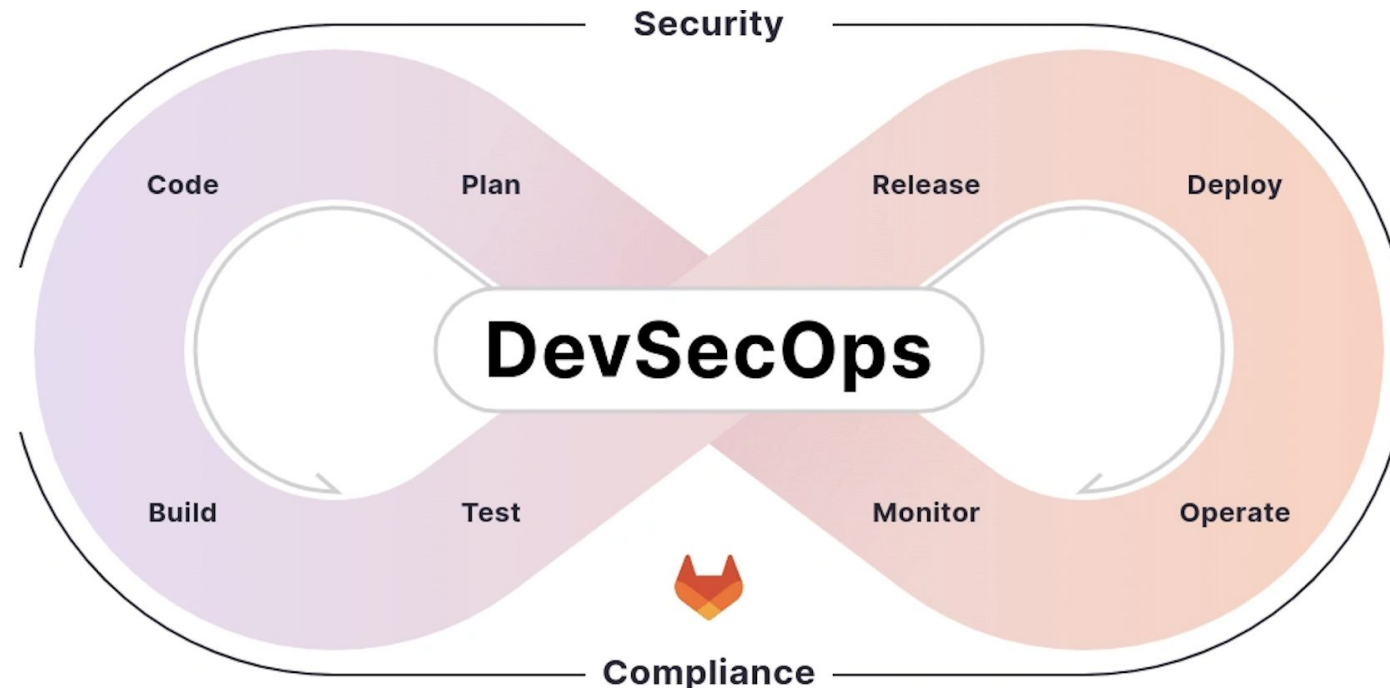


Agenda

- Intro: SSDLC, AppSec-Programs, Regulations & DevSecOps
- Why Vulnerability Management?
- What is OWASP DefectDojo?
- Demo
- Architecture & Challenges

The Problem: Scanner Overload

Your next task is to figure out which applications in your org use log4j



[GitLab: What is DevSecOps?](#)

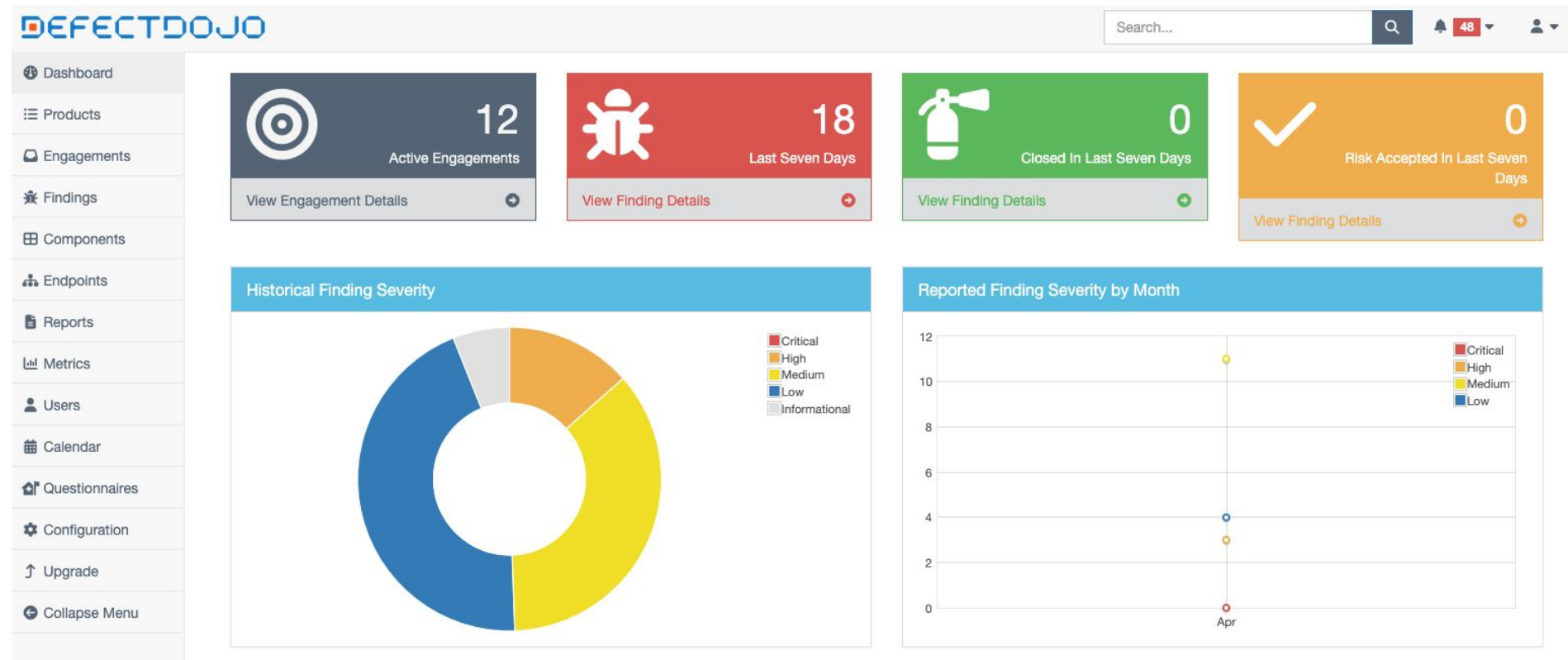
OWASP DefectDojo

- OWASP
 - [Open Web Application Security Project](#)
 - [OWASP Top 10](#) (E.g. Injection, supply chain, Broken Access control, etc)
 - But there is more! Tools, Projects, Standards, Chapters (e.g. [OWASP Augsburg Stammtisch](#))
 - Community-driven & free
- DefectDojo
 - Open-source vulnerability management tool by OWASP (“ASPM” -> application security posture management)
 - Central platform to track, deduplicate, and triage findings across multiple applications, teams, and scan types
 - Supports automation, reporting, and integrations (Jira, CI/CD, API) to streamline AppSec programs



Demo

<https://demo.defectdojo.org/> -> Log in with admin / 1Defectdojo@demo#appsec



Dashboard

Products

Engagements

Findings

Finding Groups

Components

Endpoints

Reports

Metrics

Users

Calendar

Questionnaires

Configuration

Upgrade

Collapse Menu

Home / Product List

Product List

Showing entries 1 to 3 of 3

Column visibility ▼ Copy Excel CSV PDF Print Search:

	Product ▲	Tags	Criticality	Metadata	Eng.	Active (Verified) Findings	Vulnerable Hosts / Endpoints	Contact
⋮	Cloud Infrastructure A				📅	0	0 / 0	
⋮	Mobile App A				📅	0	0 / 0	
⋮	REST API A				📅	1390 (1390)	0 / 0	

Showing entries 1 to 3 of 3



Dashboard

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REST API A

Overview

Components

Metrics

Engagements 2Findings 2135Hosts / Endpoints 0 / 0

Benchmarks

Settings

Description

Node.js Express API

Metrics

30

CRITICAL

518

HIGH

1464

MEDIUM

123

LOW

0

INFORMATIONAL

2135

TOTAL

Technologies

There are no technologies.

Regulations

There are no regulations.

Benchmark Progress

There are no benchmarks

Members

No members found.

Groups

Metadata

Business Criticality *Not Specified*Product Type *Commerce*Platform *Not Specified*Lifecycle *Not Specified*Origin *Not Specified*User Records *Not Specified*Revenue *Not Specified*

Service Level Agreement

Default

The Default SLA Configuration. Products not using an explicit SLA Configuration will use this one.

Critical 7 days to remediate

High 30 days to remediate

Medium 90 days to remediate

Low 120 days to remediate

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REST API A

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Engagements 2

Findings 2315

Hosts / Endpoints 0 / 0

Benchmarks

Settings

Engagements / All Engagements

Active Engagements (2)



Showing entries 1 to 2 of 2

Page Size

Column visibility

Copy

Excel

CSV

PDF

Print

Search:

	Name	Type	Lead	Date	Length	Tests	Active (Verified / Fixable)	Mitigated	Accepted	All	Duplicates
	Source Code (SAST / SCA)	CI/CD	(admin)	18th October - 25th October	7 days no tests no findings	0	0 (0/0)	0	0	0	0
	Container Image	CI/CD	(admin)	18th October - 25th October	7 days	1	2316 (2316/0)	0	0	2316	0

Showing entries 1 to 2 of 2

Page Size

Paused Engagements (0)



No paused engagements found.

Closed Engagements (0)



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REST API

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Engagements 2

Findings 2515

Hosts / Endpoints 0 / 0

Benchmarks

Settings

Engagements / Container Image / Trivy Scan (Trivy Scan) / Test

Trivy Scan (Trivy Scan) Updated 4 minutes ago, Created 4 minutes ago

Engagement	Environment	Dates	Updated	Fix Available	Version
Container Image	Test	Oct. 18, 2025 - Oct. 25, 2025	Oct. 18, 2025	0	None

Groups (0)

Findings (2515) Critical: 33, High: 545, Medium: 1775, Low: 162, Info: 1, Total: 2516 Findings

Showing entries 1 to 25 of 2515

1

2

3

4

5

6

7

8

9

10

...

101

Next

Page Size

Column visibility

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Excel

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Search:

		Severity	Name	CWE	Vulnerability Id	EPSS Score	EPSS Percentile	Date	Age	SLA	Reporter	Status
<input type="checkbox"/>	:	Critical	CVE-2023-23914 Curl 7.74.0-1.3+deb11u15 debian os-pkgs	319	CVE-2023-23914	N.A.	N.A.	Oct. 18, 2025	0	7	(admin)	Active
<input type="checkbox"/>	:	Critical	CVE-2023-34152 Imagemagick 8:6.9.11.60+dfsg-	20	CVE-2023-34152	N.A.	N.A.	Oct. 18, 2025	0	7	(admin)	Active

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REST API F

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Engagements 2

Findings 2532

Hosts / Endpoints 0 / 0

Benchmarks

Settings

Container Image / Trivy Scan (Trivy Scan) / CVE-2023-23914 Curl 7.74.0-1.3+deb11u15 / View Finding

CVE-2023-23914 Curl 7.74.0-1.3+deb11u15 debian os-pkgs Last Reviewed today by (admin), Last Status Update today, Created today , Last Mentioned in (Re)Import: today as created

ID	Severity	SLA	Status	Type	Date discovered	Age	Reporter	CWE	Vulnerability Id	Found by
569	Critical (9.1)	7	Active, Verified	Static	Oct. 18, 2025	0 days	(admin)	319	CVE-2023-23914	Trivy Scan

Location	Component Name	Component Version
myapp (debian 11.11)	curl	7.74.0-1.3+deb11u15

Similar Findings (2531)

Import History (1)

Description

curl: HSTS ignored on multiple requests

Target: myapp (debian 11.11)

Type: debian

Fixed version:



DefectDojo API v2 2.51.1 OAS 3.0

</api/v2/oa3/schema/?format=json>

DefectDojo - Open Source vulnerability Management made easy. Prefetch related parameters/responses not yet in the schema.

Authorize



findings

GET

/api/v2/findings/



Parameters

Try it out

Name

Description

active
boolean
(query)

component_name
string
(query)

component_name

component_version
string
(query)

component_version

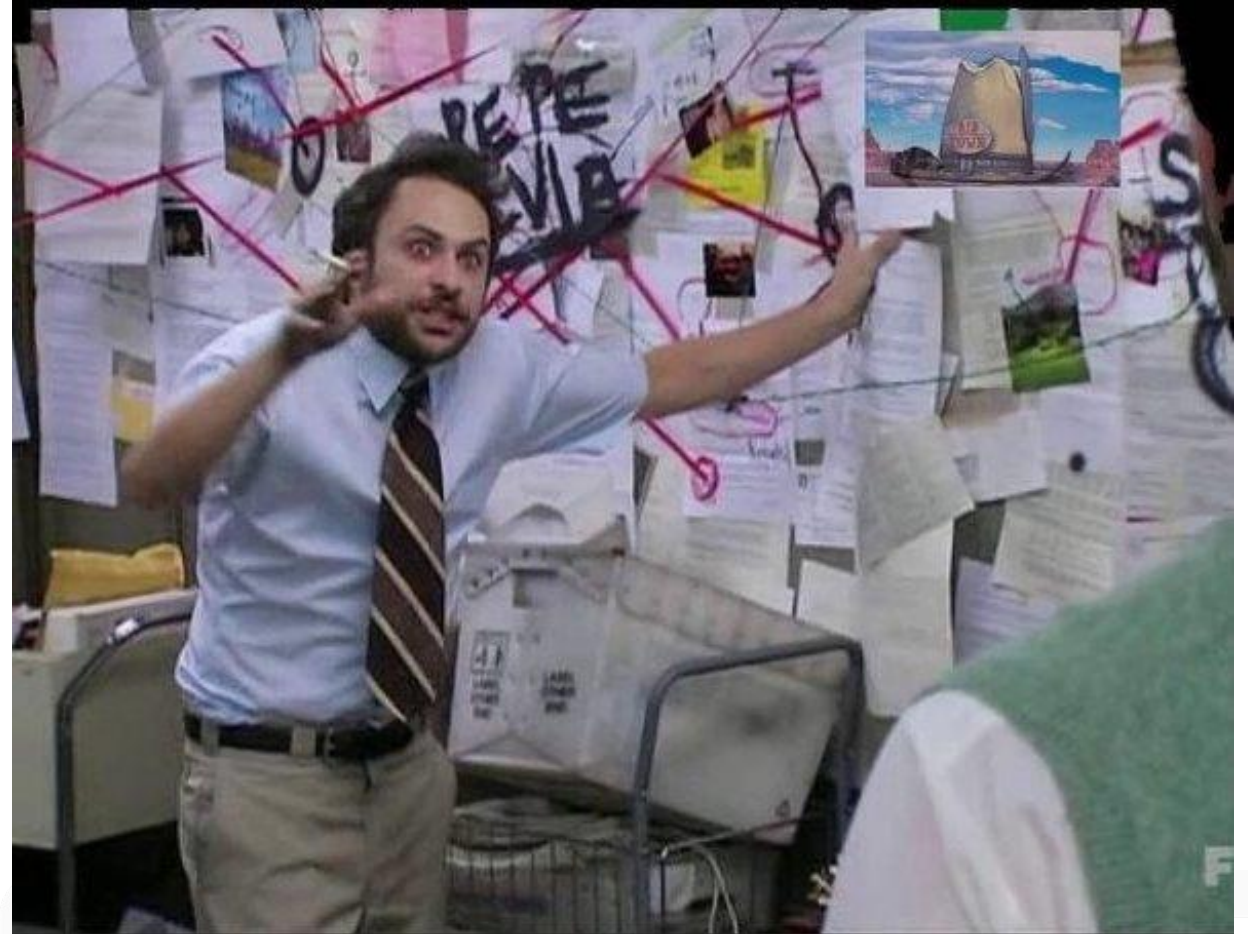
created
string(\$date-time)
(query)

The date the finding was created inside DefectDojo.

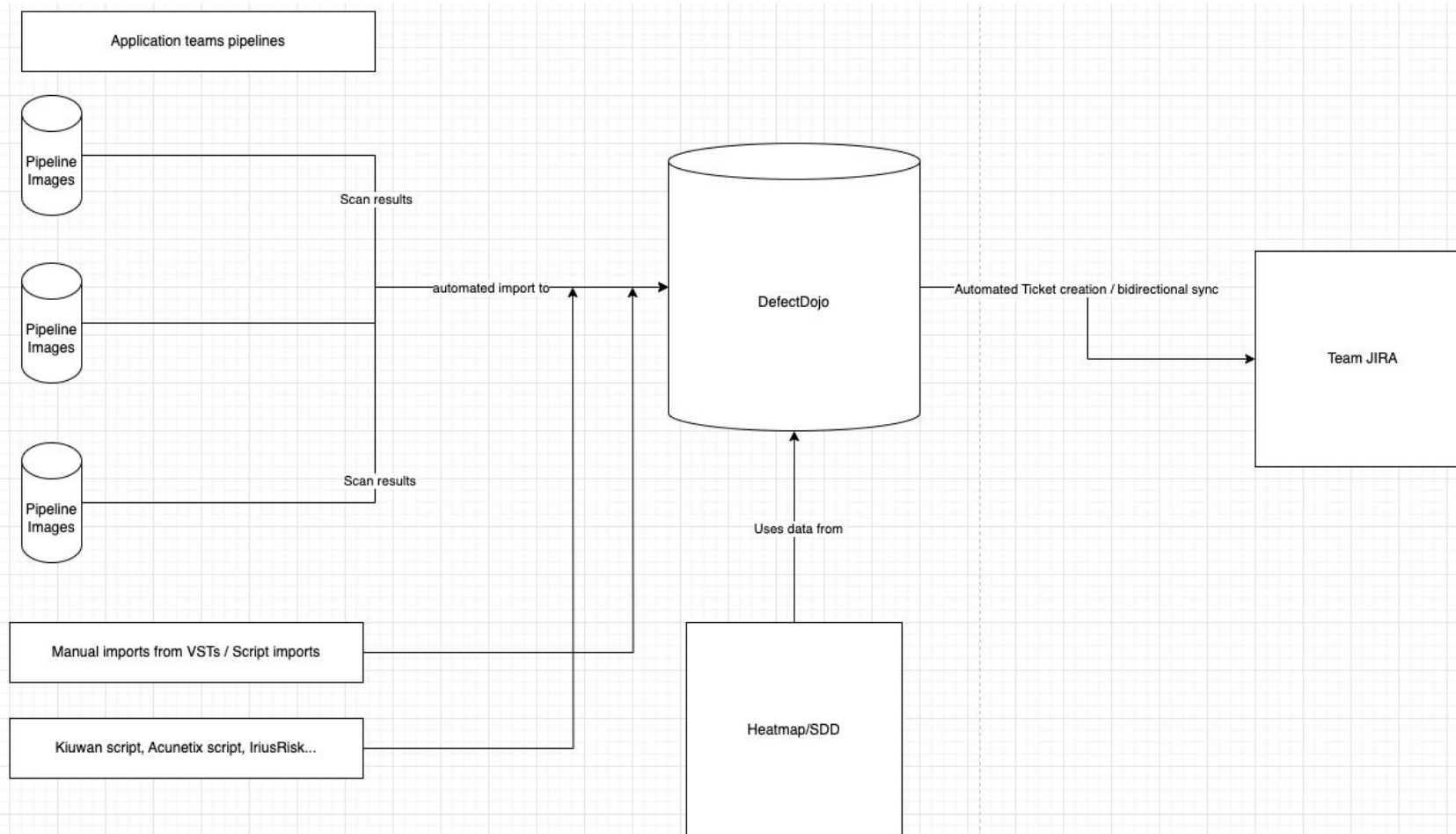
- **None** - Any date
- **1** - Today
- **2** - Past 7 days
- **3** - Past 30 days
- **4** - Past 90 days
- **5** - Current month
- **6** - Current year
- **7** - Past year

Vulnerability Management Architecture

- Centralized Management with DefectDojo
- Standardization of Scanning in CI/CD Pipelines
- Automation of Ticket Creation

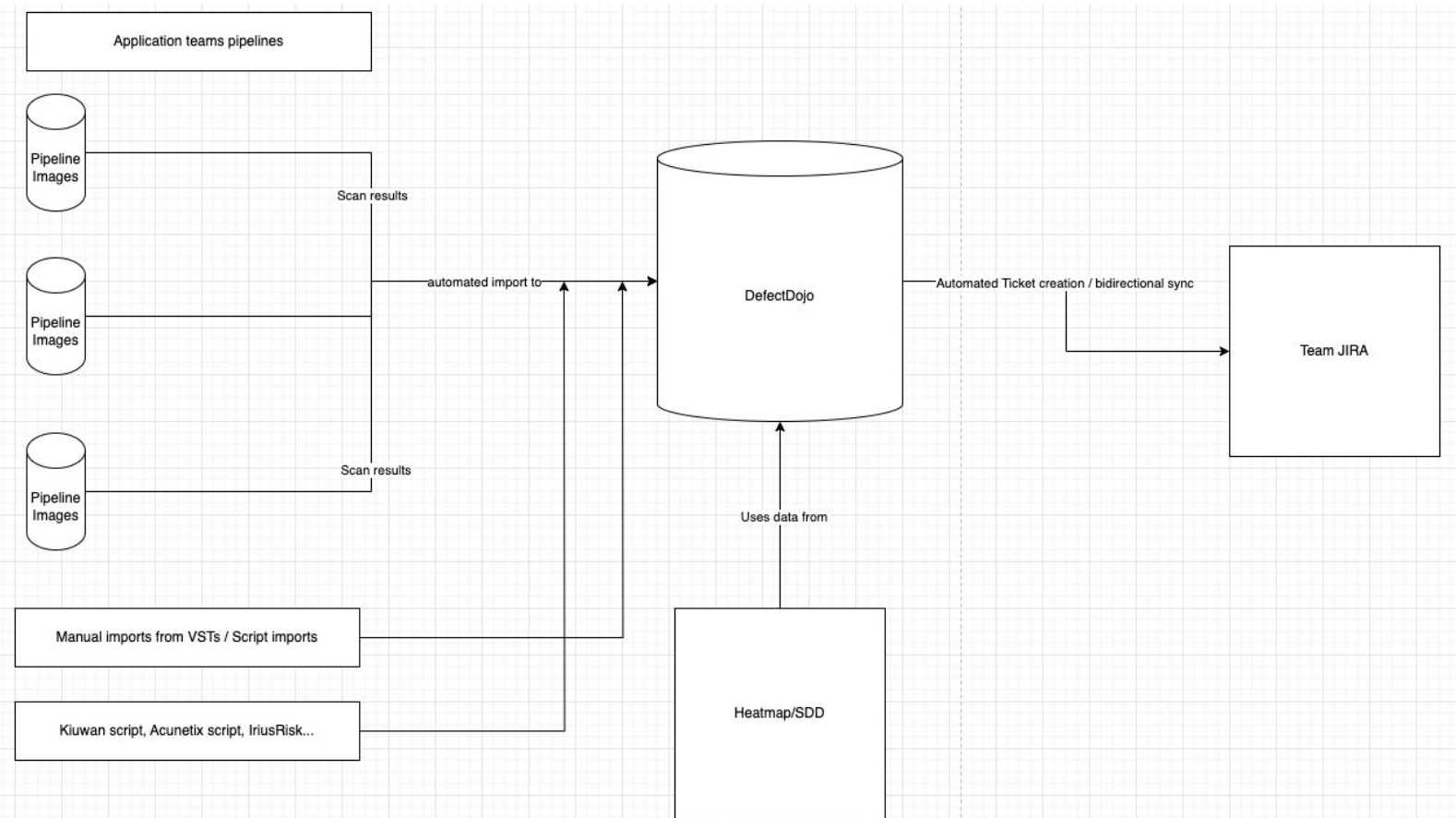


Vulnerability Management Architecture



Challenges we faced

- Maintenance of scan tools
- Maintenance of DefectDojo (Upgrades, DB Migration)
- False Positives and JIRA Spam



Discussion

Connect?

[LinkedIn](#)

<https://mwager.de>

Support

[secureIO GmbH](#) - > secure-io.de

[GitLab AppSec](#) -> about.gitlab.com

