



Stop doing software security wrong - do it right!

– Cloud Native Denmark, October 7th – 8th, 2025

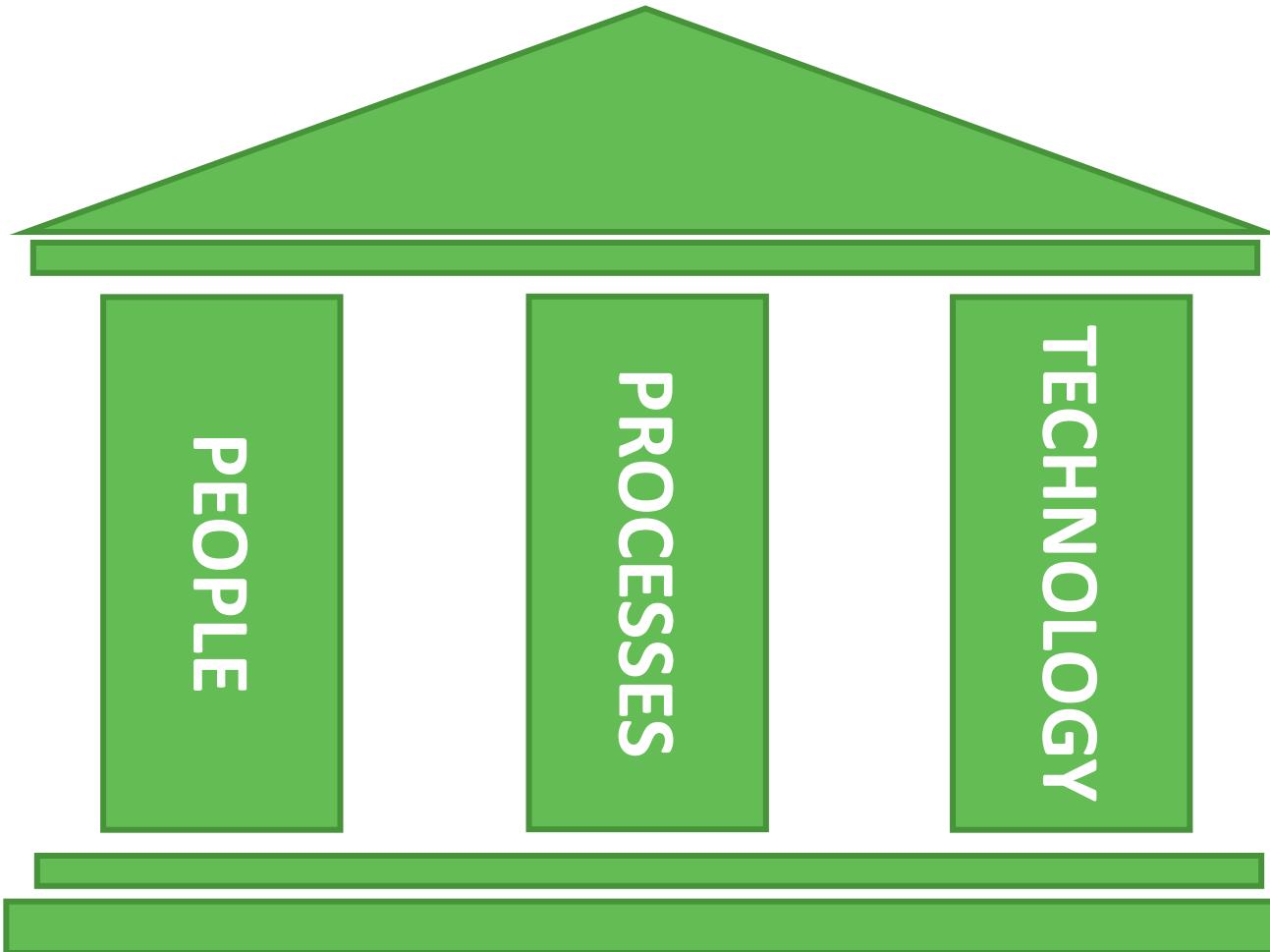
Thomas Ljungberg Kristensen

1996	Aarhus University, Master of Computer Sciences Cryptographical Protocol Theory	
2003	Systematic, Systems Engineer	
2007	Danske Bank, Developer	
2012	Kamstrup, Systems Engineer	
2014	FortConsult (part of NCC group), Senior Security Consultant	

2015 – 2019 –	<i>WelcomeSecurity, Security Advisor and Owner</i>	
2019 –	<i>OWASP Co-chapter Lead, Aarhus</i>	
2019	Deloitte, Senior Manager	
2020 – 2021	Norlys, IT Security Architect	
2021 – 2021	Amazon Web Services, Senior Security Consultant	



The three pillars



The **technology** must support the **processes**
supporting the **people** achieving their goals.

High impact – low effort

Demo time!

- Software Compositions checks (and Tracking)
- Statics application security testing (code and Infrastructure-as-Code)
- Dynamic application security testing (K8s)
- Cloud Management Interfaces
- Tying it all together!

```
tlk@development:~/Desktop/source_code/files-defect-dojo$ trivy image ubuntu:latest
2024-11-05T10:59:22.864+0100    INFO  Detected OS: ubuntu
2024-11-05T10:59:22.864+0100    INFO  Detecting Ubuntu vulnerabilities...
2024-11-05T10:59:22.881+0100    INFO  Number of language-specific files: 0

ubuntu:latest (ubuntu 22.04)

Total: 109 (UNKNOWN: 0, LOW: 53, MEDIUM: 54, HIGH: 2, CRITICAL: 0)
```

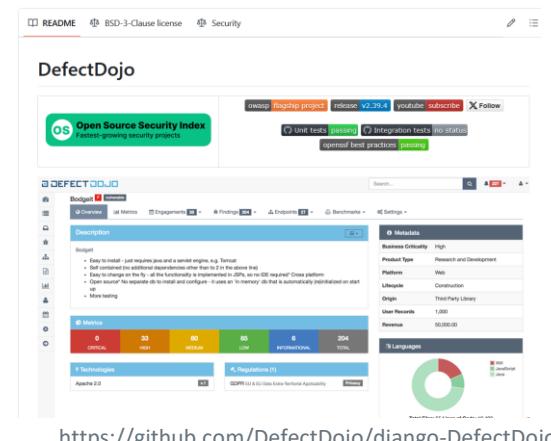


<https://github.com/prowler-cloud/prowler>

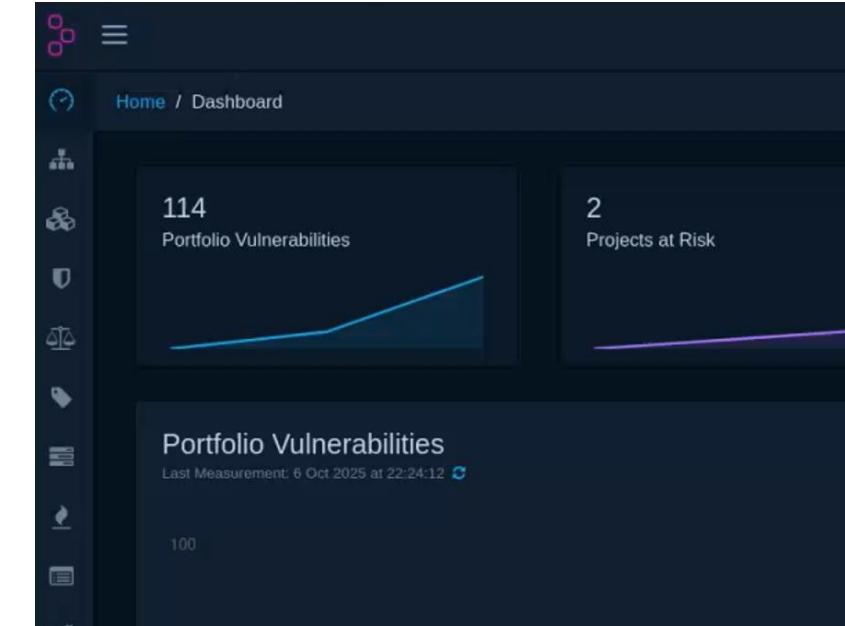
```
ubuntu:latest (ubuntu 24.04)

Total: 19 (UNKNOWN: 0, LOW: 7, MEDIUM: 12, HIGH: 0, CRITICAL: 0)
```

Library	Vulnerability	Severity	Installed Version	Fixed Version	Compliance
coreutils	CVE-2016-2781	LOW	9.4-3ubuntu6		CCSII
dpkg	CVE-2025-6297		1.22.6ubuntu6.1	1.22.6ubuntu6.5	ISV



<https://github.com/DefectDojo/django-DefectDojo>



<https://dependencytrack.org/>

Software
Composition
Analysis (SCA)

or

Software Bill of
Material (SBOM)





tlk@development:~/demo\$

trivy image ubuntu:latest



tlk@development: ~/demo

tlk@development:~/demo\$

trivy image alpine:latest



tlk@development:~/demo\$

trivy image mcr.microsoft.com/dotnet/runtime:8.0

Activities

Terminal

6 Oct 22:00

•

tlk@development: ~/Desktop/source_code/juice-shop



tlk@development: ~/Desktop/source_code/juice-shop\$ █

cyclonedx-npm



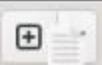
Static Application Security Testing

Activities

Terminal

6 Oct 22:03

●



tlk@development: ~/Desktop/source_code/juice-shop



tlk@development: ~/Desktop/source_code/juice-shop\$ █

semgrep . -- config auto

Activities

Terminal

6 Oct 22:07

●

tlk@development: ~/Desktop/source_code/aws-cloudformation-templates/EKS



tlk@development:~/Desktop/source_code/aws-cloudformation-templates/EKS\$

semgrep . -- config auto

Dynamic “Application” Security Testing

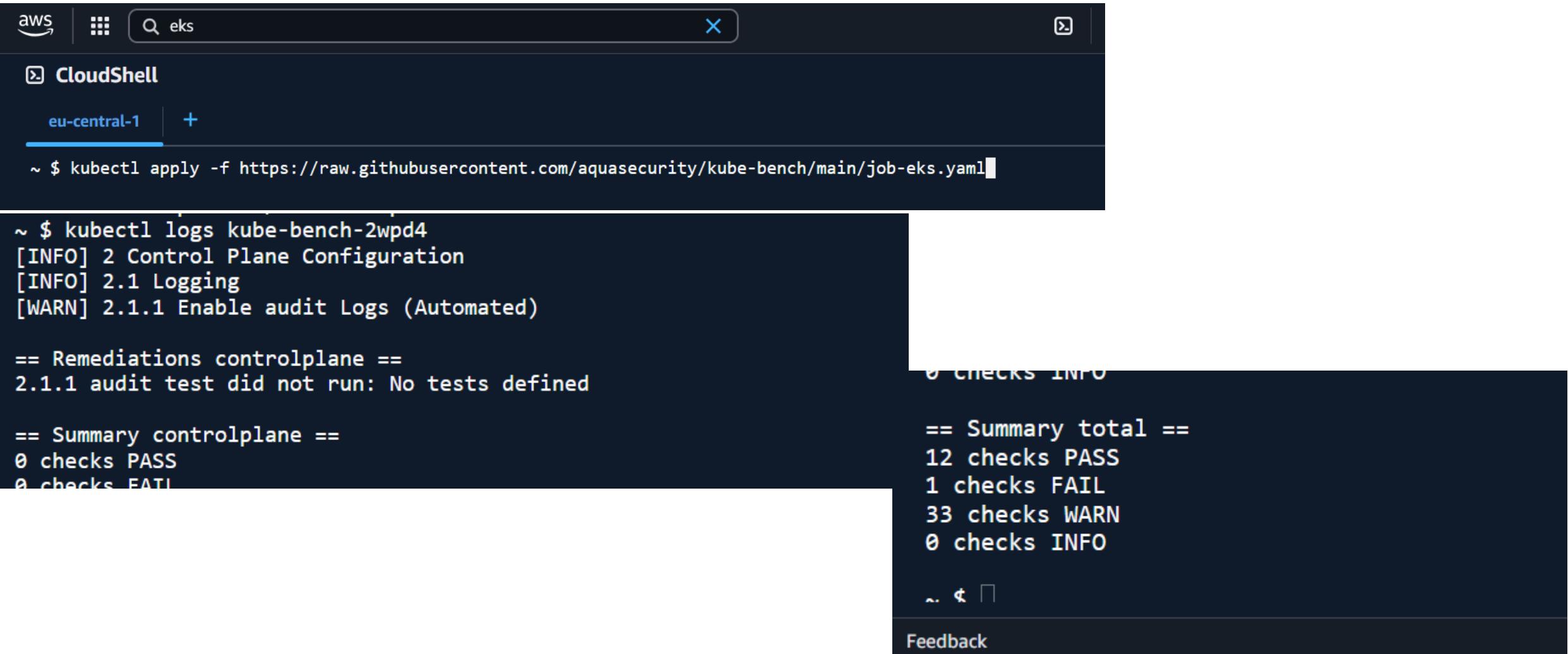


tlk@development: ~/demo

tlk@development: ~/demo\$

prowler aws

Kube-Bench



The screenshot shows a CloudShell session in the AWS Management Console. The session is titled 'CloudShell' and is located in the 'eu-central-1' region. The terminal window displays the output of the 'kube-bench' command.

```
~ $ kubectl apply -f https://raw.githubusercontent.com/aquasecurity/kube-bench/main/job-eks.yaml
~ $ kubectl logs kube-bench-2wpd4
[INFO] 2 Control Plane Configuration
[INFO] 2.1 Logging
[WARN] 2.1.1 Enable audit Logs (Automated)

== Remediations controlplane ==
2.1.1 audit test did not run: No tests defined

== Summary controlplane ==
0 checks PASS
0 checks FAIL

== Summary total ==
12 checks PASS
1 checks FAIL
33 checks WARN
0 checks INFO
```

The terminal shows the following steps:

- Running `kubectl apply` to create a job.
- Running `kubectl logs` on the job pod to view its logs.
- Output of the logs showing configuration and a warning about audit logs.
- Output of the `== Remediations controlplane ==` section.
- Output of the `== Summary controlplane ==` section, showing 0 PASS and 0 FAIL.
- Final summary output showing 12 PASS, 1 FAIL, 33 WARN, and 0 INFO.

Tying all together



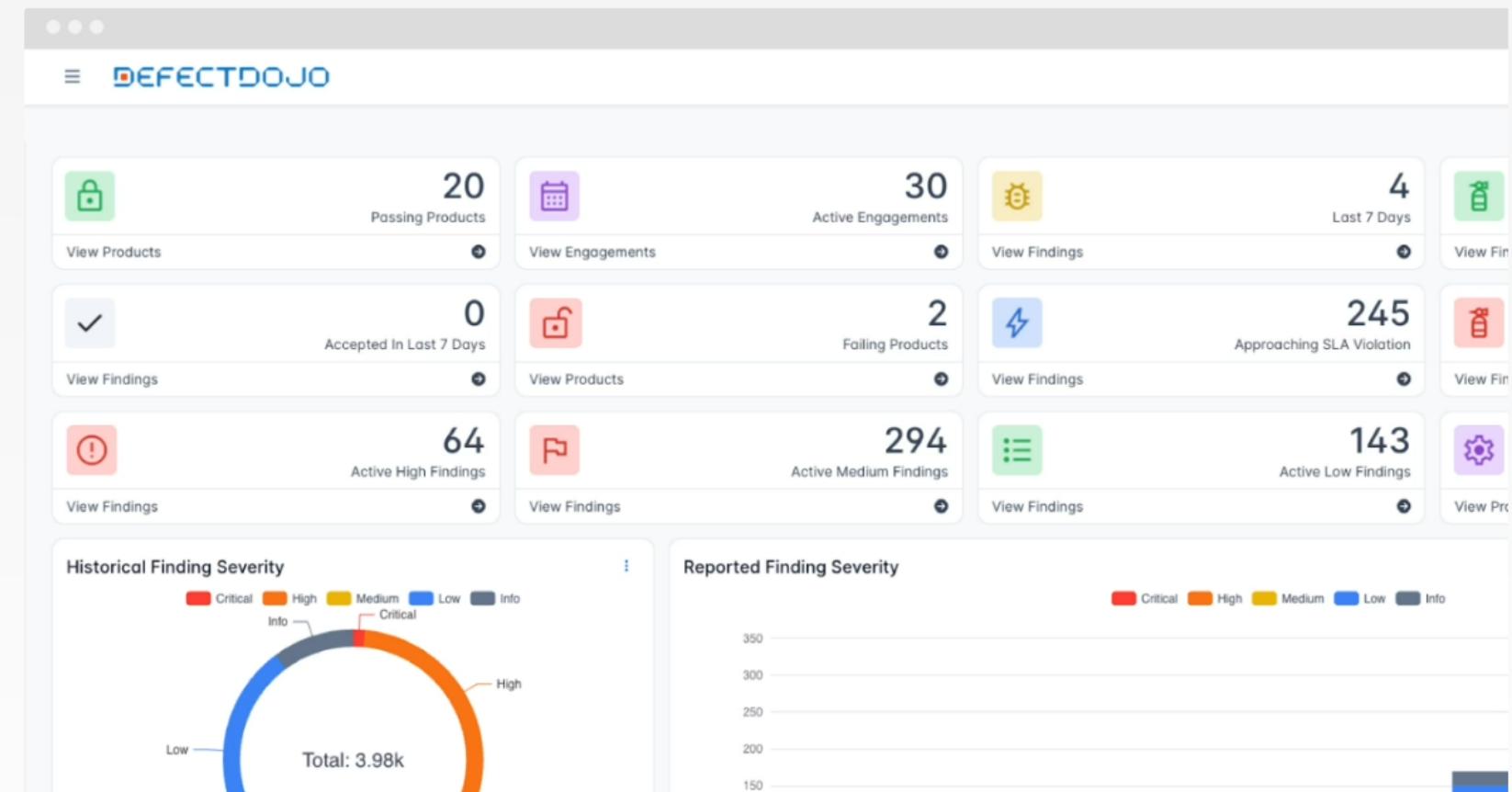
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Platform

Vulnerability Management that Works

Give your security team superpowers. Transform security into a business enabler, saving time and money while preventing potentially devastating breaches.

Get Started →







WelcomeSecurity
Security Sidekick to your Developers

Thanks!

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