Munich University of Applied Sciences The Westin Grand Munich

#### **Workshops Conference**

October 14, 2023 October 15, 2023



# **DevSecOps Culture**

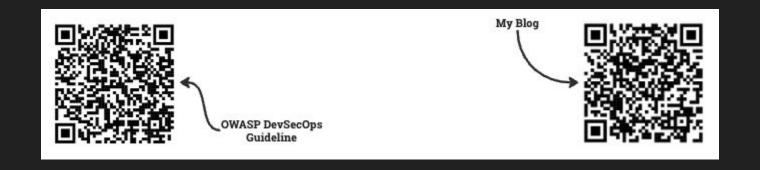
Ali Yazdani

OWASP DevSecOps Guideline Project lead

#### Readme!

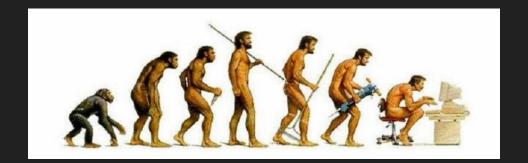
- A Security Engineer over 10 years experiences in AppSec in different industry sectors.
- 2016 Present, OWASP as contributor on projects like MSTG, and Leading DevSecOps Guideline project.
- Now, Senior DevSecOps Engineer @ Scoutbee GmbH





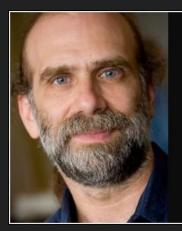
### Introduction

- In traditional software development, security measures were in the right side!
- DevOps + Security → DevSecOps
- Filling the gap!
- A culture of:
  - Collaboration
  - Shared responsibility
  - Continuous improvement



# Pillars of DevSecOps

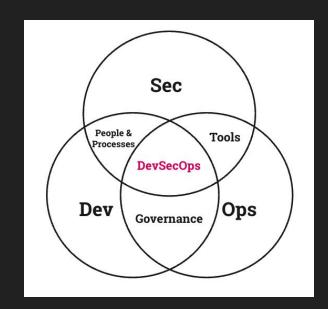
- People & Processes
- Tools (Technologies)
- Governance



If you think technology can solve your security problems, then you don't understand the problems and you don't understand the technology.

— Bruce Schneier —

AZ QUOTES

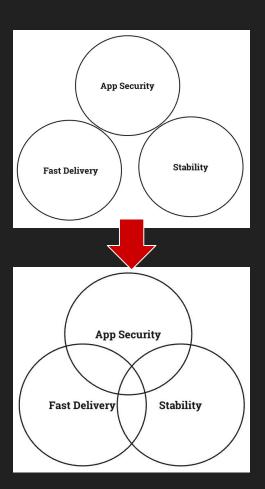


## **People & Processes**

- The important part!
- Moving to DevSecOps increasing security team workload!!

- Traditionally:
  - Development -> fast delivery
  - Security -> application security
  - Operations -> stability

• **DevSecOps:** Delivering secure and stable software quickly

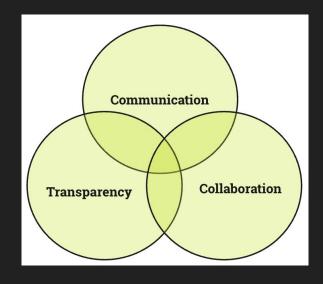


### People & Processes - 2nd

- Now; we have a shared-responsibility model.
- Processes will help people to stay involved!

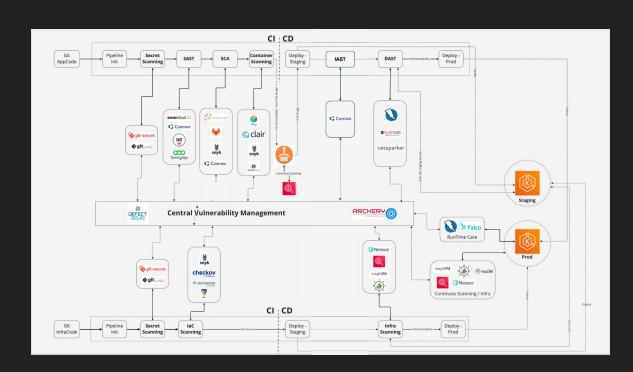
#### Topics to cover here:

- Shape the team (Security Champions)
- Training
  - o Secure coding
  - Threat Modeling workshop
  - 0 ...
- Awearnace



# **Technologies**

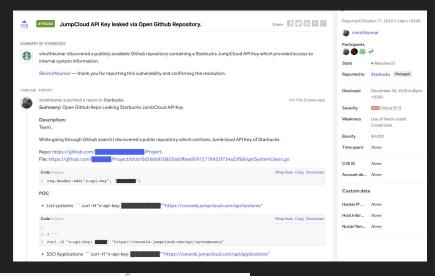
- Let's make processes more practical!
- Automation is the key.
- Benefits:
  - Effort
  - Accuracy
  - Repeatability



### **Technologies - Example**

#### **Secret Scanning:**

- The secrets should not be hard coded.
- The secrets should not be unencrypted.
- The secrets should not be stored in the source code.
- The code history does not contain inadvertent secrets.





#### Governance

- Measuring results
- Continuous improvement
- Compare results with expectations

#### Topics to cover here:

- Compliance Audit/Check
  - o Policy as Code
  - o Security Benchmarking
  - Security Standards (ISO, SOC2, ...)
- Data Protection
- Visualisation
  - Tracking maturities
  - O Monitoring



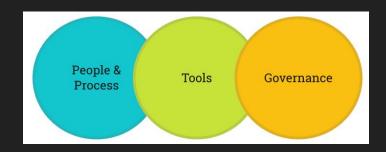
# **Challenges and Mitigations**

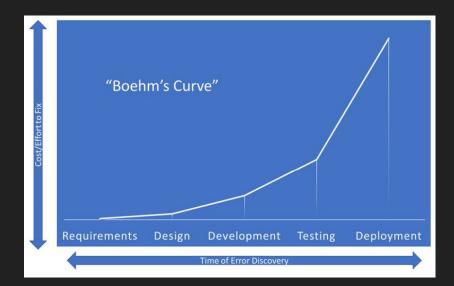
- Overcoming Cultural Resistance
- Seamless Tool Integration
- Addressing Compliance and Regulations



#### Conclusion

- DevSecOps journey, is a long-term investment!
- The good implementation makes it a cost-reduction activity.
- Shifting to the left → Catching issues as fast as possible.







# **Thanks**

