



# How to build a secure DevOps Pipeline?

Swiss Cybersecurity Days 2019, Janosch Maier



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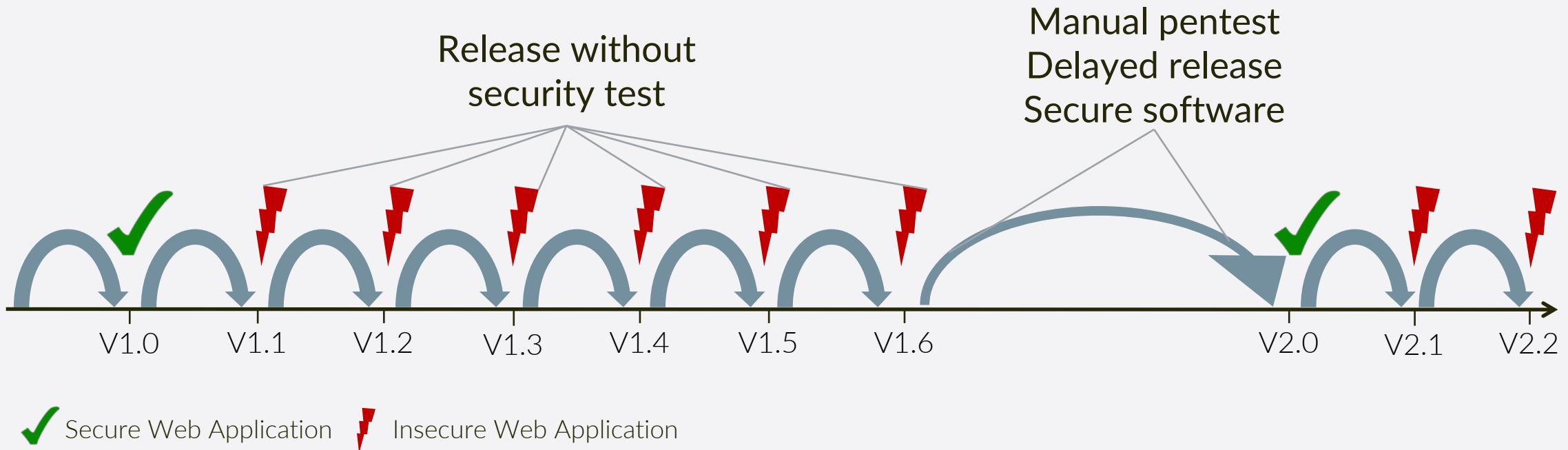


## Agenda

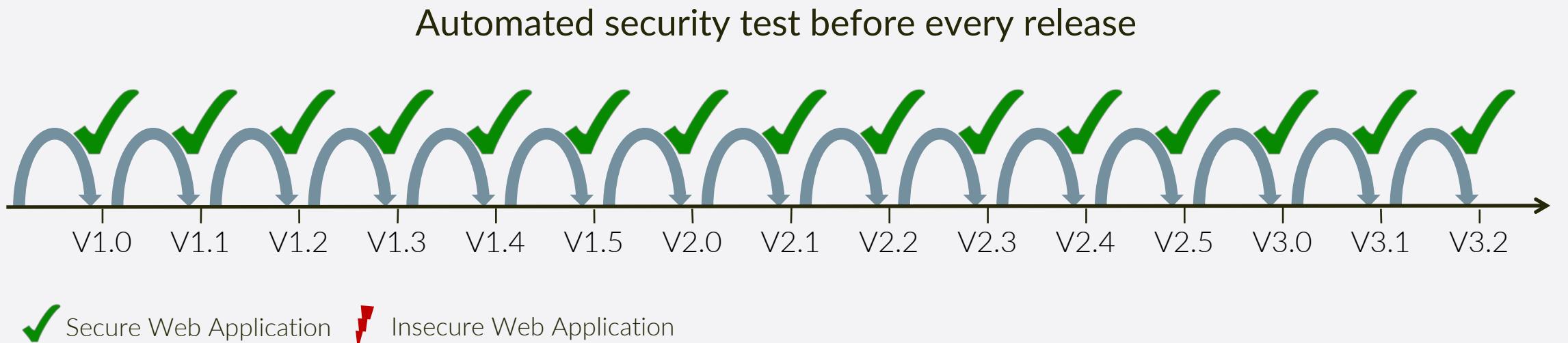
- Security during software development – Former Times & Today?
- DevOps + Security = DevSecOps
- How to create a secure build pipeline
- Live Demo
- Conclusion



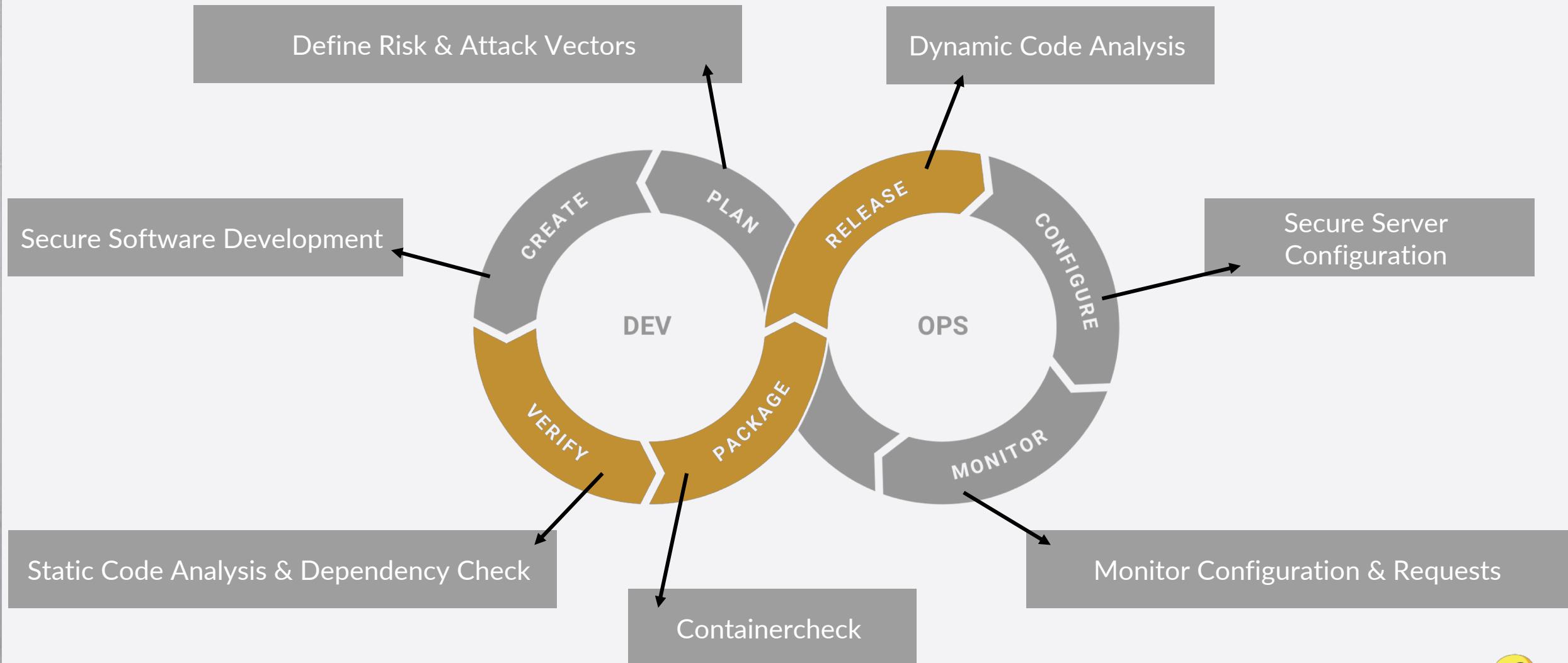
## Security in Software Engineering – Former Times



# Security in Software Engineering - Today



# DevOps + Security = DevSecOps



**Goal: Every Release is (automatically) tested and does not contain vulnerabilities.**

- Dependency Check for used libraries (e.g. python safety, GitHub, ...)
- Static Code Analysis (e.g. SonarQube – not done during workshop)
- Container Check (e.g. Google Container Registry Vulnerability Scanning)
- Dynamic Code Analysis (e.g. Crashtest Security Suite)



## Live Demo

The build pipeline ready to go:  
<https://github.com/crashtest-security/devsecops-example>



## Conclusion

- Don't forget security because of DevOps!
- Think about security during planning and coding your software and use best practices for security
- Do automated security checks as much as possible
- Stay critical and don't rely only on your pipeline
- Everybody is responsible for security!



The end...

## More questions about DevSecOps...

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