

# CyberSec Hub

Connecting People. Delivering Security.



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## Information Security – Keeping Up With DevOps



# Stas Filshtinskiy



- Applied Mathematics degree
- 20 years in Information Security
- 10 years of that in software development
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# Cyber Security Hub



Innovation-driven cyber security organisation. HQ in Melbourne, offices in ME and Singapore

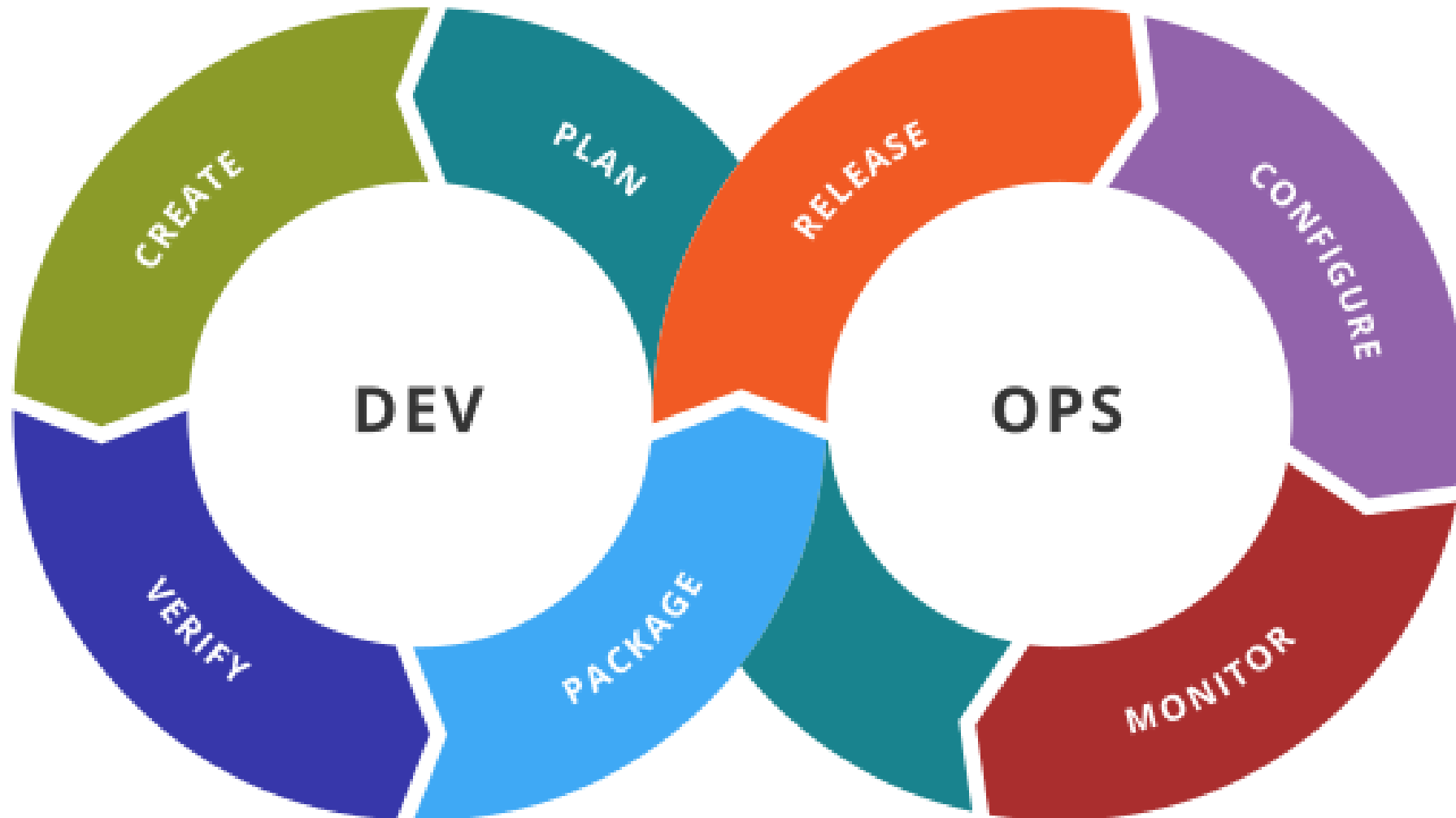
Operating 'Uber-like' security consulting. Wholesaler security services

Currently provide information security services within Asia-Pacific and Middle-East alongside major banks, telecommunications, energy & utilities, integrators and retail companies, as well as federal and state governments

Deliver a large portfolio of information security services with a strong focus on security testing and governance, risk & compliancy services

Transforming way security professionals are engaged on projects and how services are delivered

# DevOps - Benefits



# Is this you?



Engage with Business continuously?

Accept new requirements?

Quality control and (scripted) Testing?

Automate everything?

Promote in to production fast?



You are amazing!

# Security Challenges



Security slow things down

Security requirements are always changing

Testing for Security Requirements is one big Unknown

# Security Challenges: For All



Systems are more complex

Attackers get better at what they do

People make mistakes





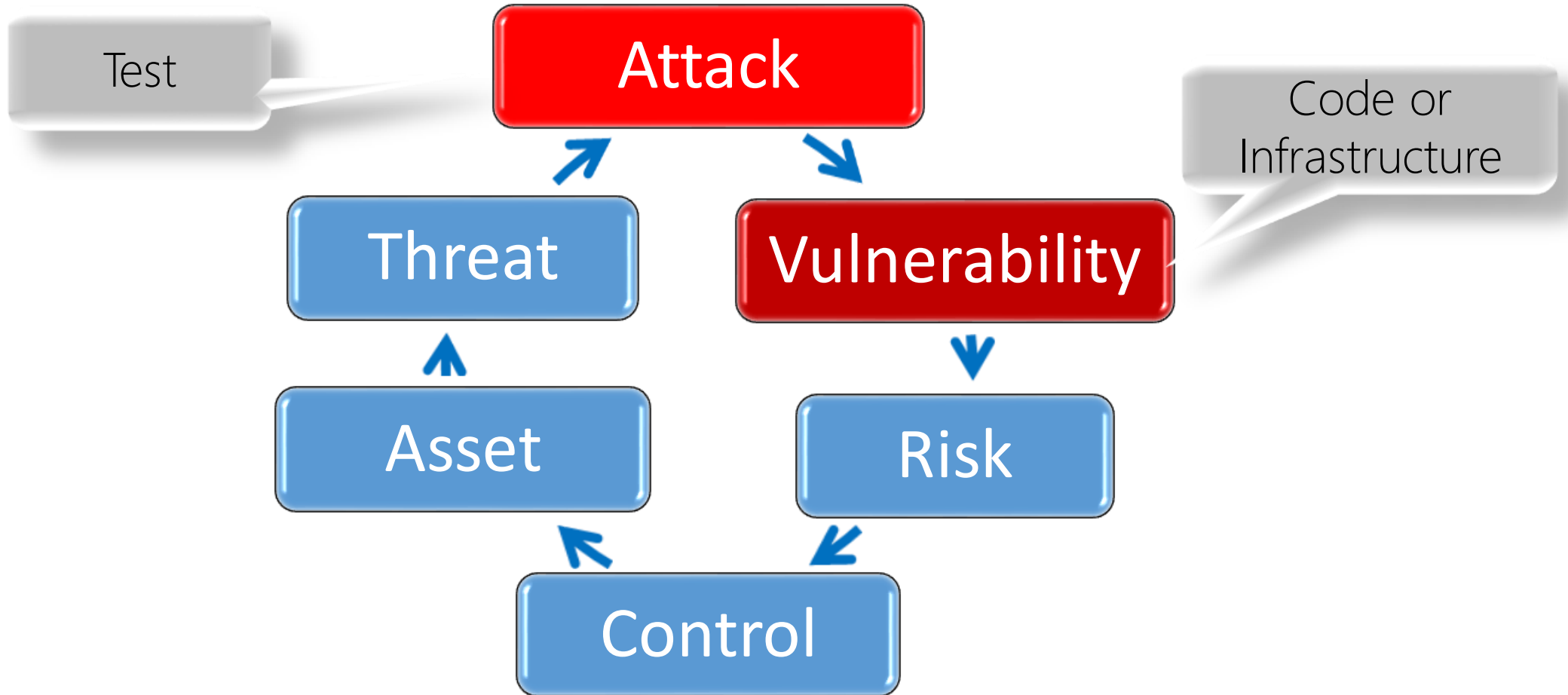
You are the only people  
who can get us (more)  
secure!

# Engaging Security (as part of Business)

Get Security to be part of DevOps Team

Ask for training

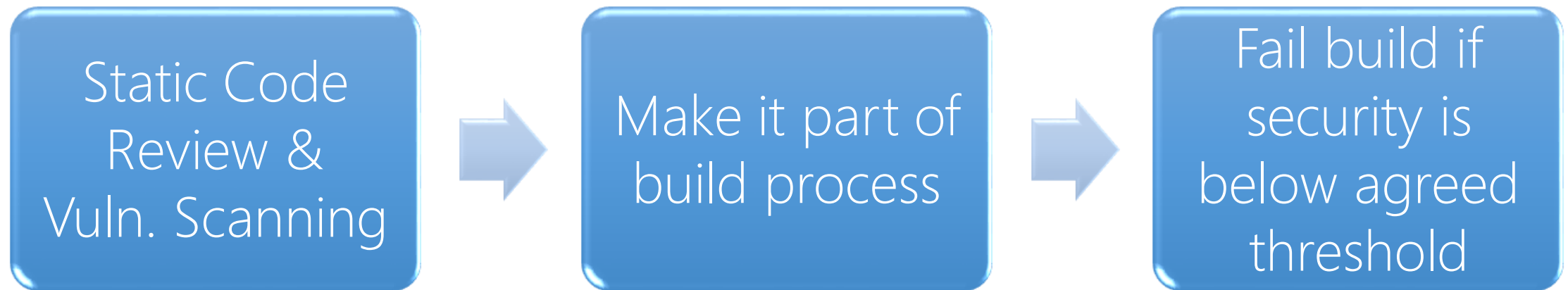
# Cycle of Risk



# Treat Security the same



# Security Activities



# Security tools



## Specialised tools

Fuzzing Tools

Vulnerability Scanners

Code Review Tools



Make it part of Integration and Build

# Security tools



## Fuzzing Tools

- Against all interfaces

## Vulnerability Scanners

- Against all components



# Security Tools

- Nessus
- SoapUI
- Burp suite
- OWASP Zed Attack Proxy
- Metasploit
- Different fuzzing tools for different applications
- FindBugs (Java)
- CheckStyle (Java)
- FxCop (.Net)
- PMD  
(XML/Java/JS/C/C++/PHP/Python/G  
O/Swift/Ruby/Groovy)
- Etc...



# Penetration Testing



It is a process and an  
Art



It has to be done on  
something closely  
resembling the  
Production  
Environment



Requires specialised  
expertise



Findings are buried  
in PDF report  
somewhere

# Penetration Testing: Process & Art



Automate what is possible to automate: do it every time



Leave the Art to the Artists: on major releases



Maintain access to experts

# Penetration Testing: Environment



Automate tests as much  
as possible



Run those tests in the  
relevant environment:  
Dev, Test, or Stage

# Penetration Testing: Report



Demand near real  
time access to findings



Demand test cases to  
test your fixes

# Summary



Integrate security people and expertise in your team and process

Every time security finds anything – ask how to test for it

Integrate security test cases alongside your other test cases

# Questions

