



Four Horsemen of DevSecOps



Name: Nachu Subramanian

Current Location: Singapore

Area of expertise: Cloud Infra, DevSecOps, Data Analytics, AI, ML, DL, IoT, Database Administration, PeopleSoft ERP, Agile Delivery, etc.

Speaker Profile

Total years of IT experience: 17+ years

Entrepreneurship: 7 years

Work locations: Singapore, Malaysia, US, India, etc.

Current designation: Vice President - Head of DevOps Engineering Center Of Excellence, OCBC Bank, Singapore

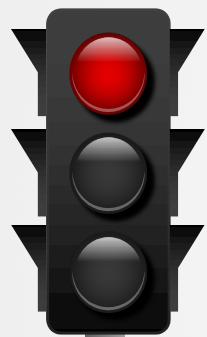
Past Experience: Some of the notable employers/clients are – Oracle Corporation, Accenture, TCS (Tata Consultancy Services), Tech Mahindra, IPSoft, Honeywell, World Bank, ING Bank, Credit Suisse Bank, United Overseas Bank, Comcast, Temasek group, SUTD, Fuji Xerox, Perodua, etc.

Education & other qualifications:

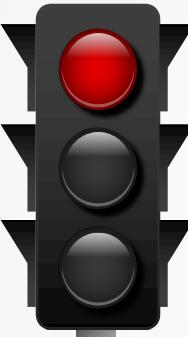
Bachelors in Computer Science engineering (From: Pondicherry University)
Diploma in Data analytics, Machine learning and AI (From: London School of Business and Finance)

Many other professional certifications on Cloud, DevOps, Agile, Project management, etc. from National University of Singapore, Singapore Management University, Project Management Institute and various other technology organizations

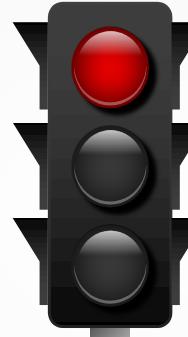
Major Security Challenges in DevOps Journey



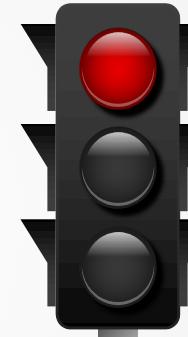
Cyber Security teams struggle to keep up with the pace of DevOps



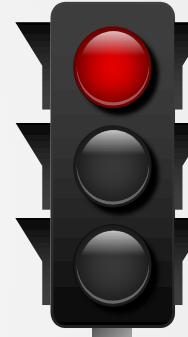
DevOps teams neglect security in their CI CD CT pipeline



Free and Open Source tools and third-party libraries come with their own Risks

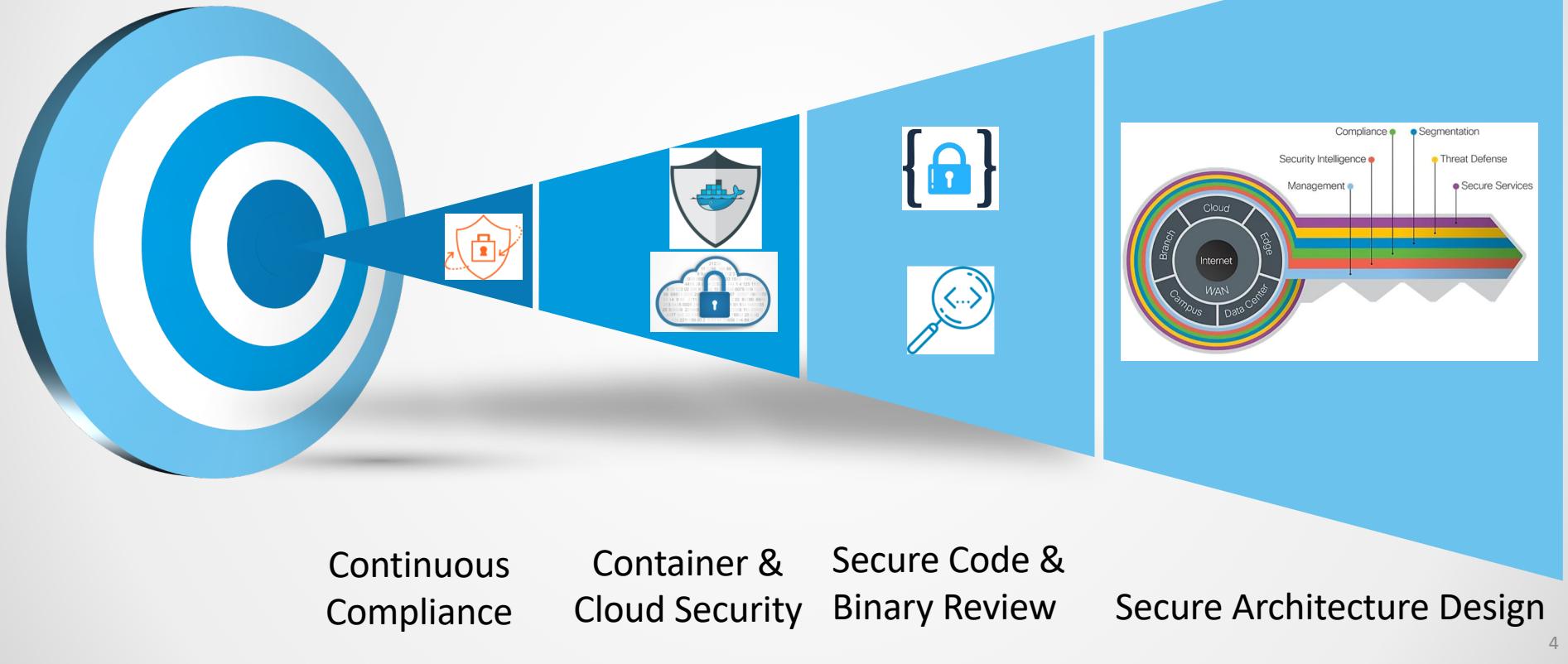


Inadequate Controls provide an opening for Attack

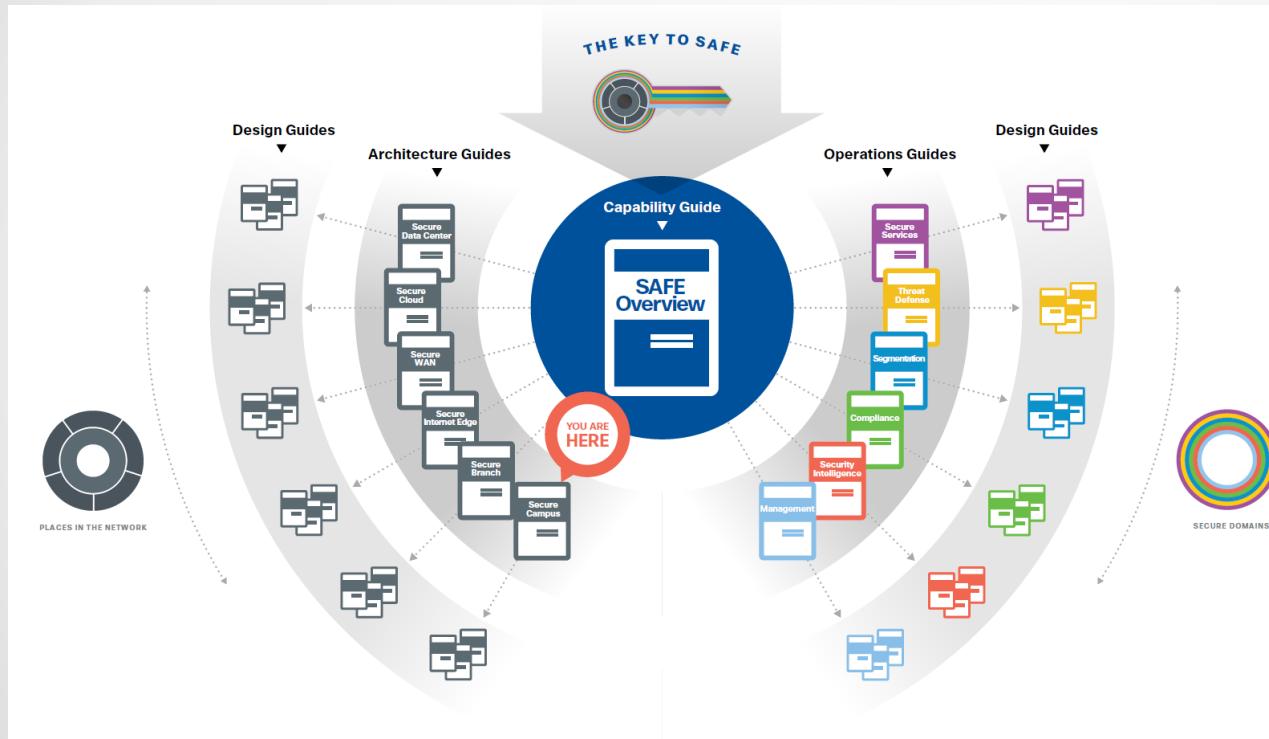


Solution Architects need to be aware of security threats consistently

Four (Good) Horsemen of DevSecOps



Secure Architecture Design



- Campus Architecture
- Branch Architecture
- Data Center Architecture
- Internet Architecture
- Edge Architecture
- WAN Architecture

Secure Code and Binary Review

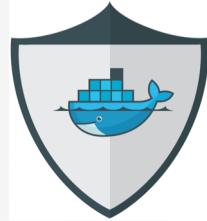


SAST, DAST, IAST Techniques:

- Secure Code Review
- Secure Binary Analysis
- Secure Third-Party Library
- Free and Open Source tools security review

Container and Cloud Security

- Container Image Security
- Container Run Time Security
- Two-factor authorization (2FA)
- Virtual Private Cloud (VPC)
- Encryption tokens
- Data encryption
- AI driven DDOS protection



Continuous Compliance



- Compliance Standards and Policies – All at Once
- Complete, Closed-Loop Compliance Automation
- Measurable and Quantifiable
- Near real-time validation and verification

Thank You

Q & A