

PCI S3 Audit Readiness Approach & Best Practices

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Introduction



12+ years leading PCI Compliance program – PCI DSS, PCI PA-DSS and PCI SSF



Led development and delivered enterprise level payment application used by biggest banks in the world including US, UK, AUS.



Trained 20+ internal product teams, transitioning from PCI PA-DSS to PCI SSF



Led 5 products to get PCI SSF (S3) validation across two large corporations



MSc Software Engineering (Security), Certified Ethical Hacker



Areas of interest are SDLC, Cryptography, Threat modelling & Security Testing

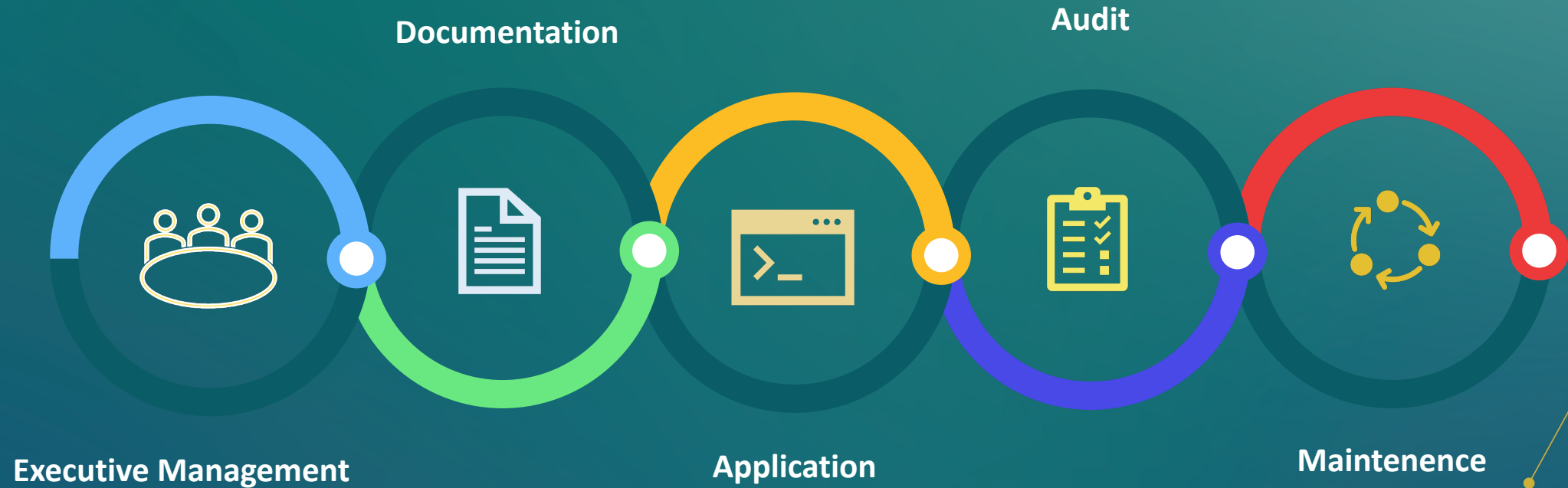


Sr. Solution Engineering Manager
Evo Payments

Agenda



The Approach



Executive Management

Getting management onboard

- Concept of Software Security Framework – Secure SLC & Secure Software Standard (S3)
- Agility built into the SSF framework
- Delta changes
- Project plan and resource planning
- PCI Secure SLC strategy



Documentation

Crucial during transition



Critical Assets Register (CAR)

Sensitive Data Inventory

- Sensitive Data
- Retention Period
- Data-At-rest, Data-In-flight and Data-In-Transit
- Crypto Functions
- Class & Packages
- Data Classification



Orange Book

Confidential Technical Guide

- Focus on documenting control objectives specific ask
- Cryptography implementation details
- Access to sensitive data



Application

Readiness of Application under test

- Entropy requirements
- Initial Vector (IV) Generation
- Crypto period monitoring
- Auditing sensitive data
- Integrity checks



Audit

Learning & Doing

- Planned for several interactions with SSF Assessor
- Evolving compliance
- Learning curve for the industry, service providers, and software vendors



Maintenance

Life Cycle of PCI S3 Compliance

- Build CAR and Orange Book into SDLC Process
- Change management - Impact Analysis
- Governance framework process for PCI SSLC
- Proactive to adapt applicable PCI S3 compliance modules





Thank you.

If you would like to get a sample of CAR template, ask questions or comment email me on **ssuurraajj@gmail.com**