

Heroes vs Villains: Building an Application Security Program that Scales

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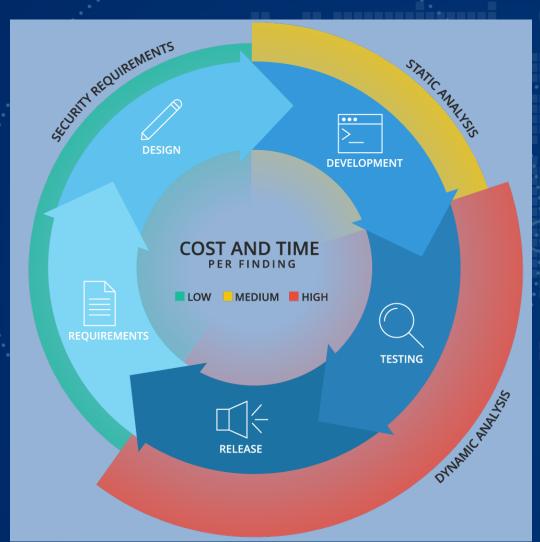
NASDAQ

JCPenney

jetBlue

Over 160 Million Credit Cards lifted over 7 years







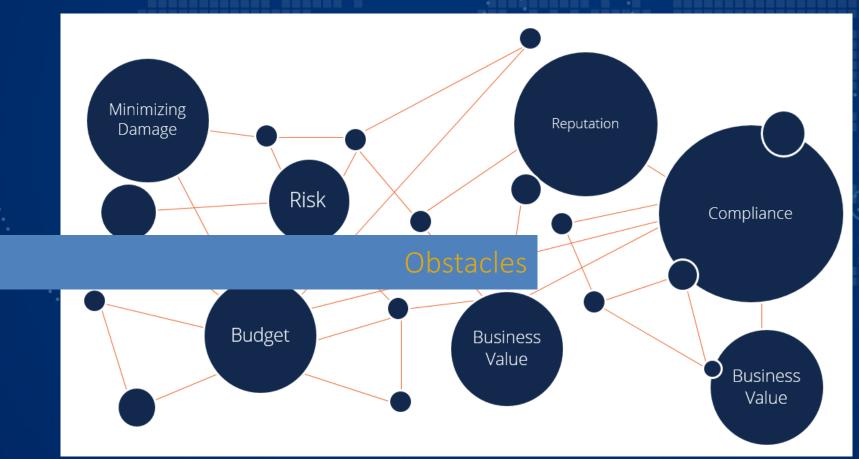
5 Step Process

Why does this happen?



- Inexperienced developers
- Apathy towards secure development
- Overwhelming requirements documents
- Too much reliance on static and dynamic analysis tools







Time, Skills, Security Talent

Pin-pointing vulnerabilities before cyber criminals do

Customer requirements and ever changing compliance standards

The Struggle is Real.

Good help is hard to find

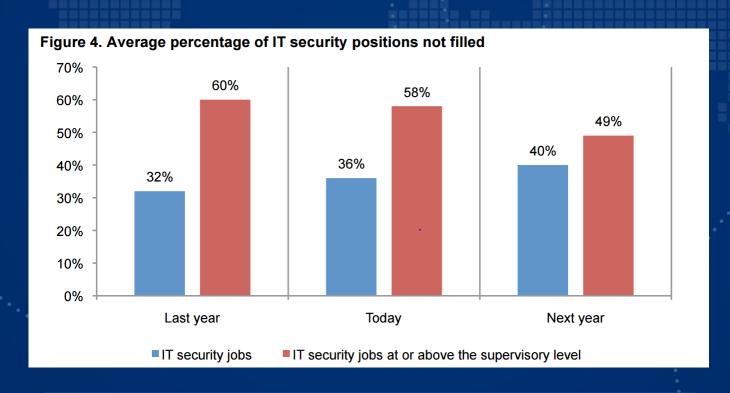


Your company is not the only one that struggles to find the experienced IT professionals and security architects necessary to perform risk assessments

- 70% of respondents believe their organization does not have enough IT Security Staff
- **36%** of security positions were unfilled.
- **58%** of senior security positions were unfilled.







Understaffed and at Risk: Today's IT Security Department - Ponemon Institute

The Numbers



- Demand for InfoSec jobs growing 3.5x faster than other IT jobs, 12x faster than all jobs.
- 12,000 InfoSec professionals surveyed believe that talent shortage weakened their defenses [ISC2]
- 70% of companies surveyed in the US believe their IT Security department is understaffed.
- 50,000 CISSP postings in the US alone, but only 60,000 CISSP's worldwide.





An Expensive Endeavor

Average Security Architect salary in the United Kingdom is £75,000





Employers want certified domain experts with multiple years of experience in:

- Network security governance
- Policies
- Procedures
- Application Security

General Security Knowledge is not Enough



Do more with less

- Stop relying on just your security team for security
- Identify security champions in your development team and empower them.
- Incentivize with training and certifications transferrable skills.
- Teach your heroes to think like VILLAINS!





- How to develop an application security program
- How to reduce production costs, application vulnerabilities, and delivery delays
- How to ensure that secure software is accepted and delivered effectively.





Adaptable



Scaled Security Information

Security Requirements

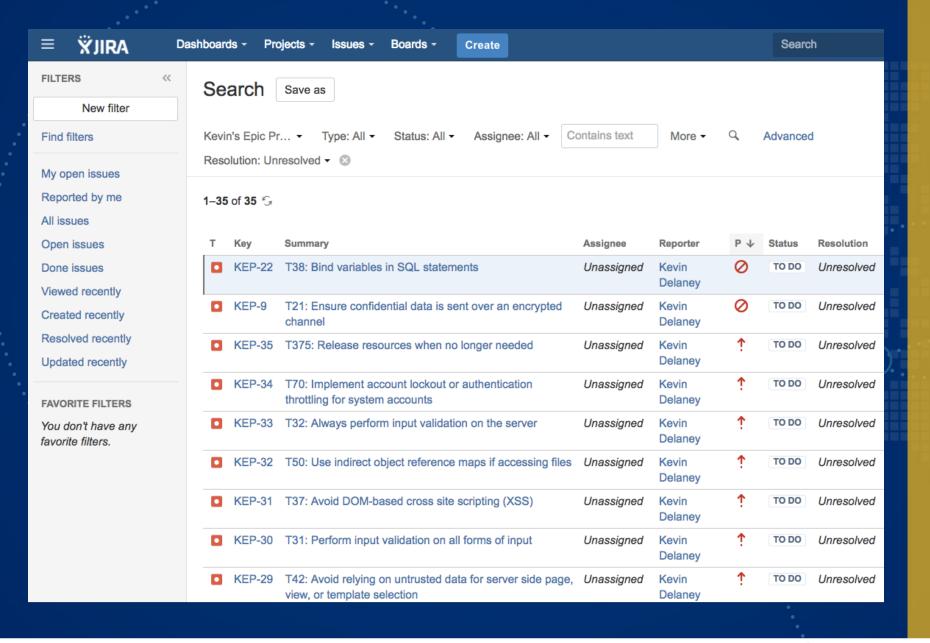
Tailored Security Information

Security Baseline



Focused

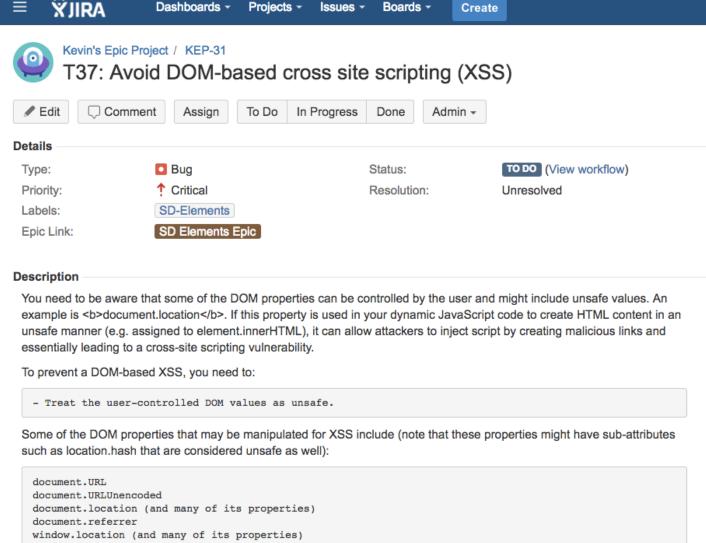
- A great appsec program is focused on the strengths of the people participating.
- Ideally, security tasks should be generated on-the-fly based on the profile of the application and its associated risks and delivered directly into your developers' ALM tools like JIRA or TFS.
- Ensures nothing is missed and reduces time spent searching for what's applicable to a project by multitudes.





location (note that window.location can be access as just location)









Collaborative

- No more "us vs. them" mentality between developers and security.
- Developers must take responsibility for security tasks.
- You cannot create a security culture it is created from within the development org.







- Proper management of security requirements early in the SLDC prevents problems before they happen and turns down the noise from static/dynamic analysis tools.
- Delivering these requirements directly to developers in the tools they use every day is critical for acceptance.
- Leverage and empower your existing resources, because finding new ones is no easy task.
- Make sure your AppSec program is adaptable, focused, and collaborative.



Thank You, Villains!

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