

# Heroes vs Villains: Building an Application Security Program that Scales

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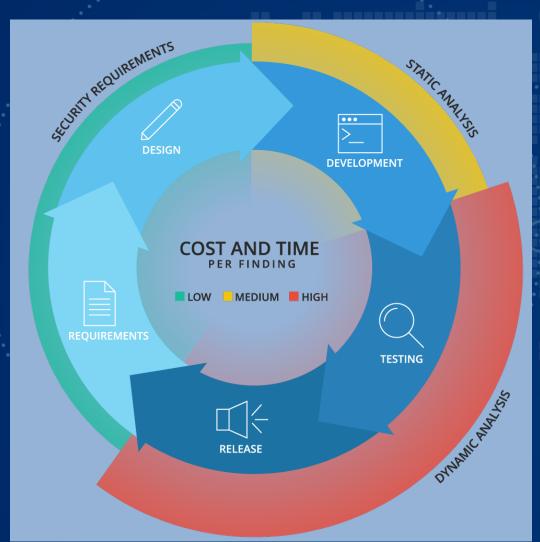
**NASDAQ** 

# JCPenney

# jetBlue

Over 160 Million Credit Cards lifted over 7 years







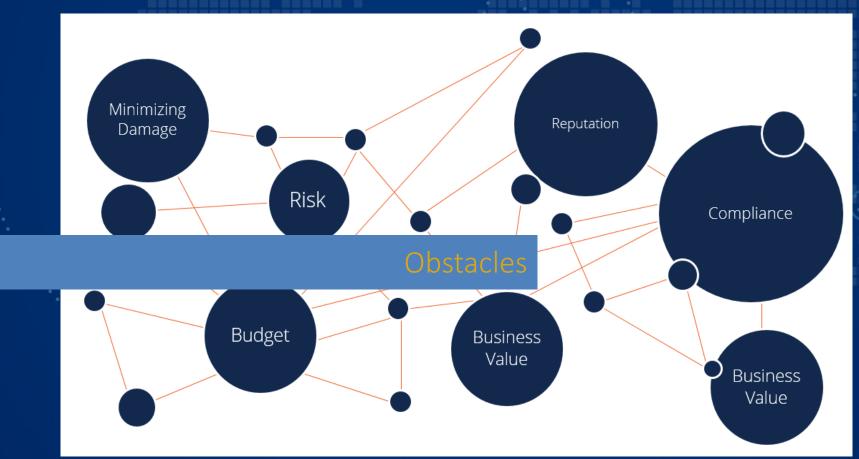
5 Step Process

#### 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

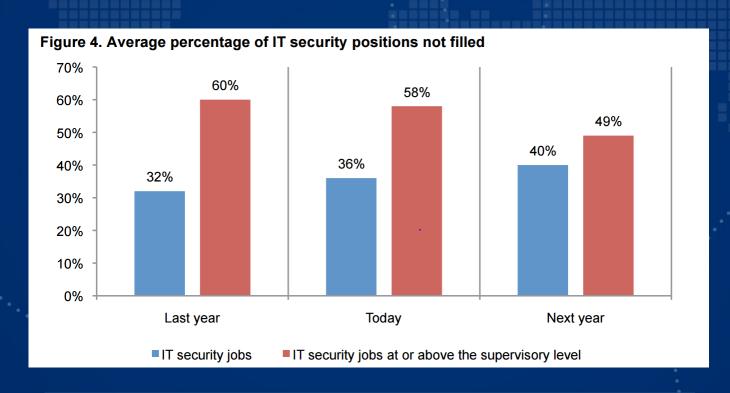


Your company is not the only one that struggles to find the experienced IT professionals and security architects necessary to perform risk assessments

- 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

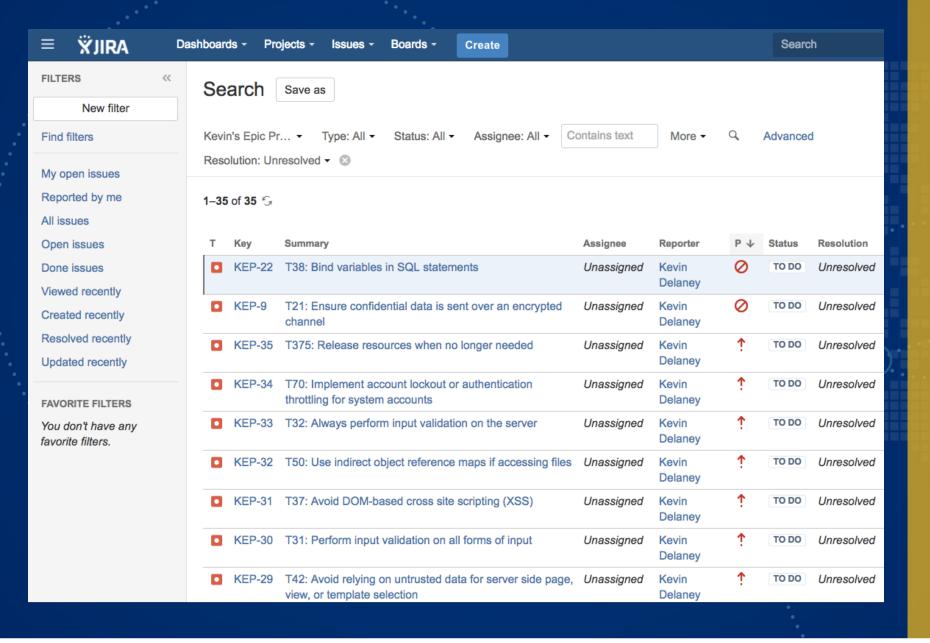
**Tailored Security Information** 

**Security Baseline** 



### Focused

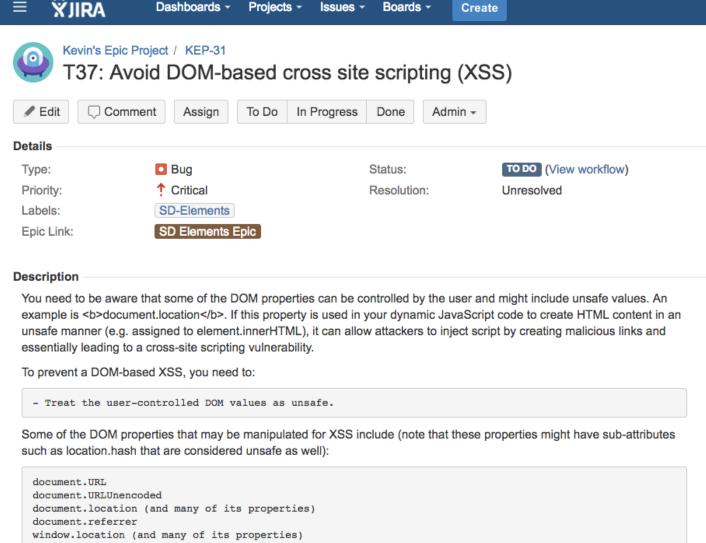
- A great appsec program is focused on the strengths of the people participating.
- Ideally, security tasks should be generated on-the-fly based on the profile of the application and its associated risks and delivered directly into your developers' ALM tools like JIRA or TFS.
- Ensures nothing is missed 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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