Manage Your Risk With ThreatModeler



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Introduction

Anurag "Archie" Agarwal, CISSP

- Founder MyAppSecurity
- Ex-Director Education Services, WhiteHat Security
- 17 years of experience (Cisco, Citigroup, HSBC Bank, etc)
- Active in WASC and OWASP
- Published several articles on Secure Coding and SDL
- Project Leader OWASP Threat Modeling Methodology
- http://myappsecurity.blogspot.com



MyAppSecurity

Secure Your Applications

- End to End Software Security Risk Management Solution
- Key Services
 - Threat Modeling
 - Secure Architecture Review
 - Vulnerability Management
 - Training





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VICTORIA'S SECRET



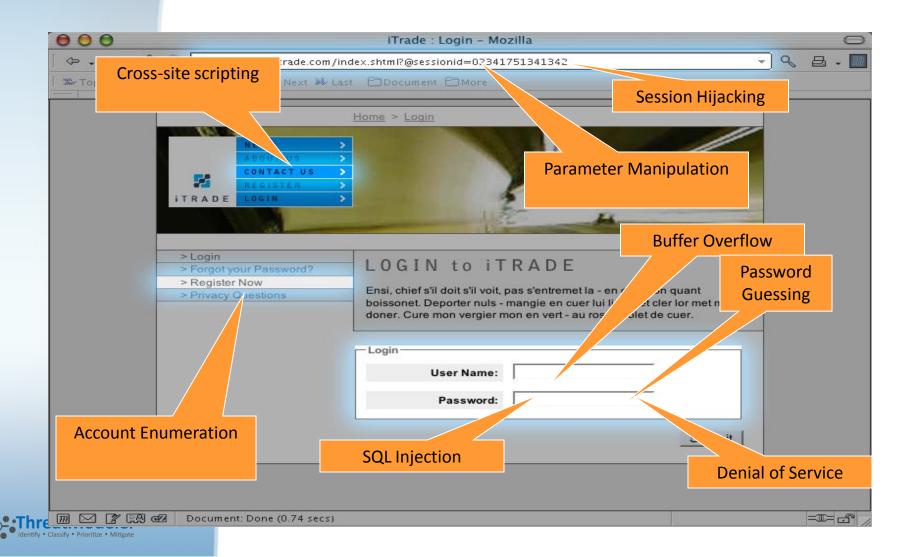


"You cannot build secure systems until you understand your threats"





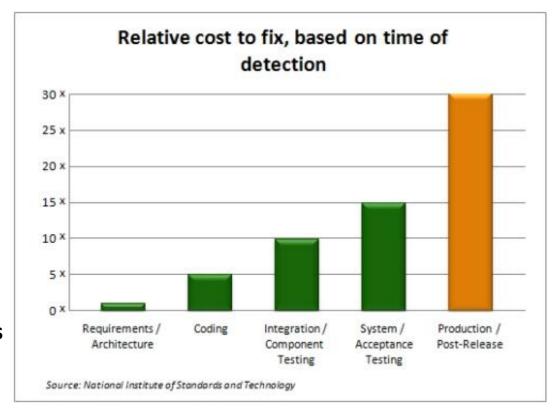
"Applications are built from individual features and each feature can be attacked. It is therefore important that you understand the components of the application"



Threat Modeling pays for itself

- Number of Vulnerabilities = Negligible
- Competitive Advantage
- ROI Benefits

"Code fixes performed after release can result in 30 times the cost of fixes performed during the design phase."
(NIST)





BUILD YOUR OWN THREAT MODELING PRACTICE IN 7 EASY STEPS

Step 1 - Threat Library

- Build your own threat library
 - Existing threat libraries CAPEC, WASC and OWASP
 - Custom threats
- Associate risk with threats to prioritize mitigation efforts









Step 2 - Secure Coding Standards

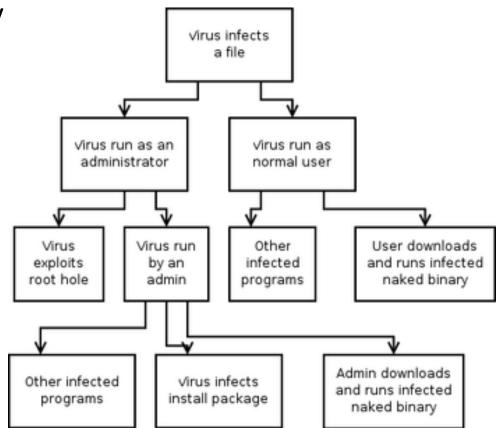
- Identify mitigation steps
 - Secure Coding Standards
 - OWASP Secure Coding Quick Reference Guide
 - OWASP Developers Guide
 - Security frameworks
 - OWASP ESAPI
 - Microsoft Enterprise Library
 - Microsoft AntiXSS Library
 - Custom/Home grown
- Associate mitigation steps with threats





Step 3 - Intelligence

- Build a library of reusable Threat Patterns / Attack Trees
- Build a pre-defined reusable component library





Step 4 - Actionable Output

- Builds a comprehensive threat profile (ThreatMap) of the system which can be either used to understand the system or generate actionable output
 - High Value Targets
 - Data Flow
 - Threats to individual Components
 - Risk
 - Attack Trees
 - List of Mitigation Steps (Abuse Cases)
 - Security Assessment Checklist
 - List of Total vs. Open Vulnerabilities



Step 5 – Dashboard and Reporting

- Threat Management Console
 - Threat Portfolio
 - Threat Management / Vulnerability Management
 - Prioritize Mitigation
- Risk Dashboard
 - Top Ten Threats
 - Risk Profiling
 - Compliance Reporting





Step 6 - Collaboration



	Architects	 Provide functional information about their application.
	Security Professionals	 Vulnerability Management / Risk Management. Promote Security Standards throughout the organization.
•	Developers	•Implement correct mitigation steps and security standards using Abuse Cases.

Step 7 - Scaling and Operationalizing

- Build a Threat Model in hours/days depending on the size of the application
- Updating a threat model is a matter of minutes.
- Effective Risk Management.
- Build reusable templates
- Scalable across thousands of applications.





Time for a Demo

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