TestingXperts Security Testing Capabilities

TechDefcon
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TestingXperts
Passion For Perfection

Security Testing Services

Security Testing Services

Organisations are getting affected every day by security allied incident such as Network Intrusion, Cross Site Scripting (XSS) and DOS/DDOS attack. TestingXperts Security Test Services has effective approach to guard against the risk an organisation can face. Like, Architecture Assessment from Security point of view (Threat Modeling), Security Audit & Security Testing.

Our Services

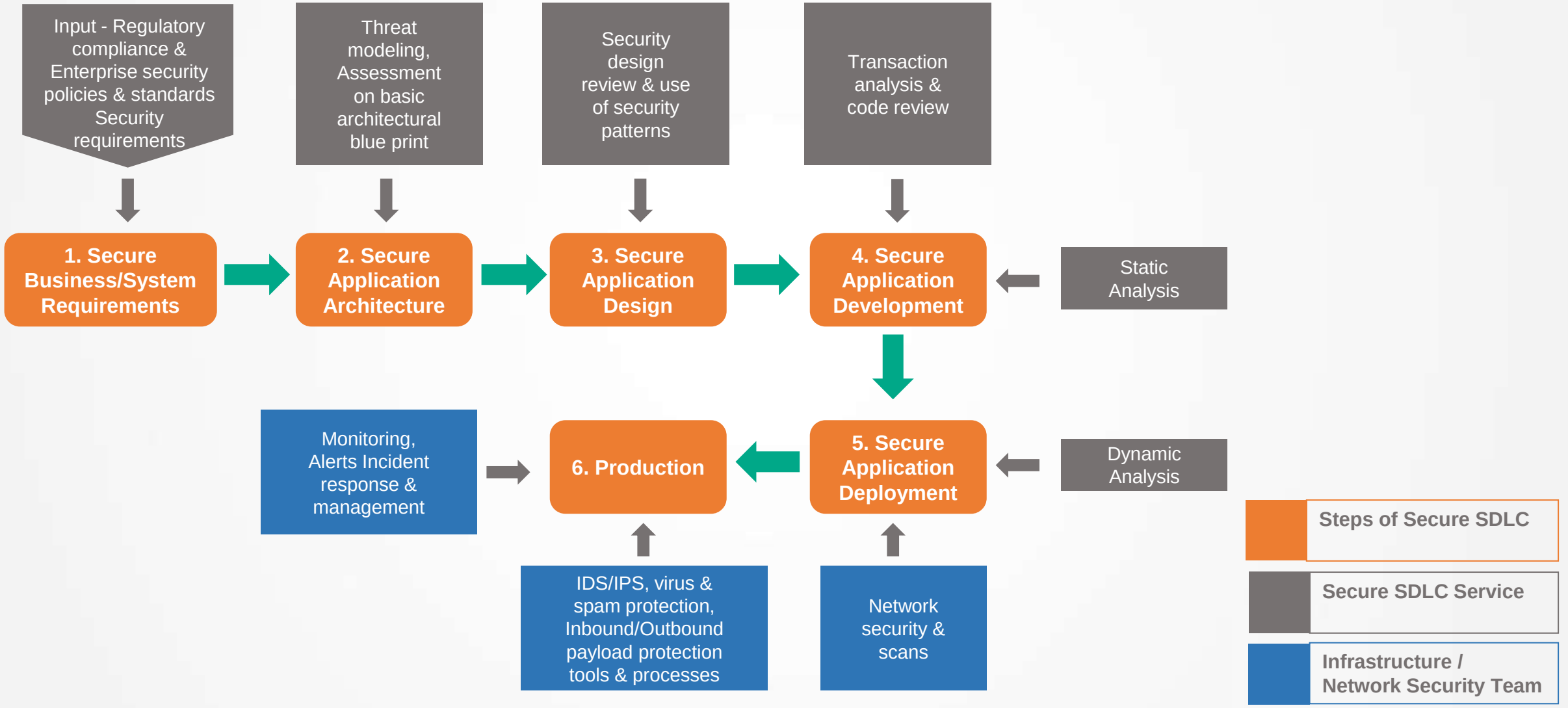
- Security Consultancy (Application level threat assessment)
- Packaged Application Security Testing
- Security Testing Center of Excellence
- Mobile Lab for Security Testing
- Threat Modelling
- Security audit
- Dynamic Analysis
- Penetration testing

TestingXperts Security Testing Advantage:

- *Pool of CEHs (Certified Ethical Hackers)*
- *Conformance with international standards including* OWASP, SANS, OSSTMM, PCI, HIPAA, FDA, SOX, etc.
- *Vendor independence coupled with deep expertise of key security technologies*
- *The report classifies each vulnerability in appropriate categories along with mitigation strategy*
- *Ensuring zero false positive with snap shot of exploitation*
- *Complete coverage of regression testing*
- *Vulnerability free application with iterative strategy for further release*
- *Supported Tools: HP Web Inspect , IBM App Scan, Acunetix, Cenzic Hailstorm, Burp Suit Pro and other open source tools*

Security Testing Strategy

Optimal strategy for Application security requires security across various activities throughout the development life cycle. Component & E2E Security is a unified solution for optimal application security, which is illustrated below:



Security Testing Process

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Security Testing

Well planned Security Testing, use of appropriate tools to identify potential vulnerabilities and security status of your applications.

Identify Critical System & Information Gathering

- Identify critical system to be assessed
- Identify the scan window
- Gather information about target
- Port Scanning
- OS fingerprinting

Tool Mapping & Scheduling

- Fine-tuning the tool for Vulnerability assessment
- Selection of plugins/ checks/ scripts
- Scheduling the Scan

Vulnerability Identification

- Scan Vulnerability on Application
- Characterisation of vulnerability

Result Analyse & Reporting

- Collect evidence
- Elimination of False positive
- Summarise and report results

Gap for Fixes

Re-testing

- Re-test the fixes and complete application
- Re-testing report
- Sign off report

Case Studies

Case Study 1 – Security Testing for a healthcare company in UK

Client:

- A leading Health care company in the area of mobile health and work in partnership with clinicians

Project Brief:

- Customer have created a new portal for NHS Innovation Challenge Prizes 2014/15
- Security Testing of newly developed application for Security loopholes

Approach / Solution:

Our Approach was to meet Information Security Industry standards like OWASP Top 10, SANS Top 15 and others at the priority:

- Primarily focused on Network transportation, Session Management, Authentication, input Validation checks
- Used commercial, Open Source tools and manual testing to meet the objective
- Prone to Man in the Middle Attack (MIM), Credentials transported in plain text, Password Policy & Critical information disclosure vulnerability were identified with a very high impact score

Challenges:

- Security testing activity finished in 5 days according to project release date
- Follow the Iterative Secure SDLC process, this includes complete security regression test with any new component that is developed

Business Benefits:

- 60% of vulnerabilities identified as critical
- Best penetration testing of the application using OWASP tools helped client obtain certification by renowned test services
- Compliance of applications with security regulations
- Reduces cost through identification of security defects at an early testing stage
- Adherence to company's internal security policies and external laws
- Integration of testing mechanisms with industry best practices such as the Open Web Application Security Project (OWASP)

Tool / Devices Used:

- HP WEB INSPECT

Case Study 2 – Security Testing for an E-Learning Application

Client:

- Client is a leading e-learning company offering efficient and customized solutions around curriculum and media development, assessments, learning solutions etc.

Business Needs:

- Client was working on implementation of the product for various end customers and was looking for thorough security testing of 2 applications:
    - Questions Authoring application for teachers
    - Assessments application for teachers and learners
- Application was on load balancing environment with SSL enabling and servers on AWS behind virtual private cloud (VPC)

Approach / Solution:

Our **Approach was to meet Information Security Industry standards** like OWASP Top 10, OSSTMM standards and others at the priority:

- Understood the application, security requirements, security assets, user roles, access levels, authentications
- Application was scanned using TX's Security testing framework based on open source tools and Burp Suite Pro and vulnerabilities were identified
- The initial testing was completed in a challenging timeline of 2 weeks to meet client's implementation timelines
- TX provided detailed recommendations on security vulnerabilities along with providing the client a demo of how various vulnerabilities could be replicated and exploited to gain unauthorised access to systems and data.

Business Benefits:

- Identified all vulnerabilities in the application including 6 critical vulnerabilities
- The report classified each vulnerability in appropriate categories, and TX suggested mitigation strategy for them enabling the client to fix the issues in quick time
- Suggested an iterative security check strategy for further releases

Tool / Devices Used:

- TX's security testing framework, Burp Suit Pro

Thank You

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