



Application Security Hands-on Training

APPLICATION SECURITY TRAINING: INTRODUCTION

Behind the information systems that electronically govern almost every aspect of our lives, there are applications and databases that process and keep our data. If the application and the database –parts of system that we all implicitly trust to process and hold our critical or sensitive data– are not secure, the potential impact on our lives, and even on our broader society, could be devastating.

In many cases, deploying network security countermeasures can defend our system against malicious attacks. But in other cases, the original vulnerability lies with the software. Software can be correct without being secure. Software can meet every requirement and perform every specified action flawlessly, yet still be exploited by a malicious user. Even after putting so much time, money, and effort on network security, the potential problems will still be there as long as the application’s and database’s security vulnerabilities get no serious attention.

Some of the vulnerabilities –perhaps– are already discovered over the years as we deploy the application and the database. The rest of the software vulnerabilities remain undiscovered, but they’re there. They all have the potential to be discovered and be exploited.

Something that matters: **by whom**.

Why then do we think it’s necessary to share the methods for attacking and securing application with you? Because we want to put this information into your hands, so that you understand how others may attack your systems and how to defend.

In this hands-on course, you will gain experience in the core application security vulnerability discovery, exploitation, and remediation methods.



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APPLICATION SECURITY TRAINING: TARGET AUDIENCE

Target audience for this course is web-based application **programmer, QA/tester, designer/architect, analyst, internal auditors** who is already familiar with software development, and is seeking for a fundamental understanding of today’s best practices in secure software development.

APPLICATION SECURITY TRAINING: SCHEDULE

Day & Date : Tue – Thu / 21 – 23 April 2009

Place : Cyber Building Jakarta

Day & Date	Materials
Day 1: Tue, 21 April 2009	Introduction to Application Security
	Secure Software Development Methodologies
	Demo: Security Requirements & Secure Design
Day 2: Wed, 22 April 2009	Common Web-application Security Vulnerabilities, Threats, and Countermeasures
	Hands-on Session#1: ASP.Net Sample Application
Day 3: Thu, 23 April 2009	Hands-on Session#2: Java Sample Application
	Discussion: Application Security Checklist & Cheatsheet

This course will be delivered in Bahasa Indonesia. All courseware (course materials, security tools in a live CD, computer facility for each), coffee break, lunch and certificate are included with IDR 5.250.000,-/person.

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APPLICATION SECURITY TRAINING SYLLABUS

Introduction to Application Security
<ul style="list-style-type: none">• The Roles of Software/Application in Critical Aspects of Our Lives• Security Problems in Software/Application and the Root Causes• Solving the Problems with Secure Software Development
Three Common Secure Software Development Methodologies
<ul style="list-style-type: none">• SDL from Microsoft• CLASP from OWASP• Three Pillars (Focus on its 2nd Pillar, Touchpoints) from Cigital
Security Requirements
Secure Design
Common Application Security Threats and Vulnerabilities
<ul style="list-style-type: none">• Review of Web-based Application Basics• Review of Security Frames for Web Application• Common Web Application Vulnerabilities• Common Web Application Threats• Common Countermeasures
Hands On: Sample Application Security Exploits
<ul style="list-style-type: none">• Class Practices in:<ul style="list-style-type: none">◦ Identifying Security Vulnerabilities of Sample Web Application◦ Exploiting Sample Web Application◦ Securing Sample Web Application
Discussion
<ul style="list-style-type: none">• Common Web Application Security Checklist & Cheatsheet• Applied Knowledge for Application Security