Session 9 : Rational

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Smart Decisions for a Smarter Planet

LEARN NEW IDEAS TO STAY AHEAD OF THE MARKET!



Scanner automatiquement les vulnérabilités des applications Web et du code source avec **Rational AppScan**

IBM Software Solutions Day

vous faire connaître les dernières évolutions de l'offre software



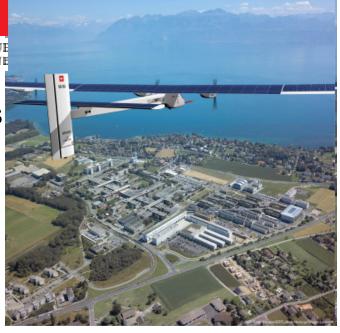
Familles de produits: Tivoli, WebSphere et Rational pour la fondation d'architecture services « SOA», Information Management pour la gestion des données et finalement Lotus pour la collaboration.

Smart Decisions for a Smarter Planet

OF THE MARKET!









Agenda

- Should we worry about our application security?
- Security maturity
- Automatic Security Scanning Rational AppScan → Demo
- Resources







Do we get attacked?



Une nouvelle attaqu la banque online d'el

C'est l'heure des étr servir. Une attaque l'encontre des interr qui tente de piéger (120 000 mels via (électroniques, sous (

Dans ce cas, les inf courrier électronique possédez un accès à

attacks

to other sites.

PostFinance [message@postfinance.ch] d by hackers À : undisclosed-recipients PostFinance_{e-Finance} er's oto:zataz.com PostFinance and Western Union awards you! You won 1500 CHF from Western Union at Christmas Raffle Draw. The Ds and Twitter : Western Union Activation status: Succesfull a had been **CLICK HERE** to complete the process and take possession of money f nous excuser de vous demander Twitter users h ATTENTION: Please allow 5 - 10 minutes for processing. You will rec^{e investaire, en plus chaque} to generate the code. r le lien ci-dessous : Caque au Some Twitter users were lured into giving away their pase Avertissement!! : Ce lien ne fonctionnera plus d'ici 72h. Nous vous remercierons de votre collaboration et compréhension, mais l'amélioration de nos

services vous intéresse aussi.

You won 1500 CHF. Complete the process and take possession (

phishing attack over the weekend. Lots of us received di (DMs) that said "hey! check out this funny blog about you took you to a site that copied Twitter's front page. Howev soon spotted, and the "don't click" warnings rapidly beca annoying than the phishing messages.

Aucune somme d'argent ne sera retirée de votre compte, c'est juste un simple inventaire nécessaire pour vous assurer un bon avenir.



Breakdown of goods available for sale on underground economy servers



Rank	Item	Percentage	Range of Prices
1	Credit Cards	22%	\$0.50 - \$5
2	Bank Accounts	21%	\$30 - \$400
3	Email passwords	8%	\$1 - \$350
4	Mailers	8%	\$8 - \$10
5	Email Addresses	6%	\$2/MB - \$4/MB
6	Proxies	6%	\$0.50 - \$3
7	Full Identity	6%	\$10 - \$150
8	Scams	6%	\$10/week
9	Social Security Numbers	3%	\$5 - \$7
10	Compromised Unix Shells	2%	\$2 - \$10

Source: Symantec Corporation – Internet Security Threat Report Volume XII



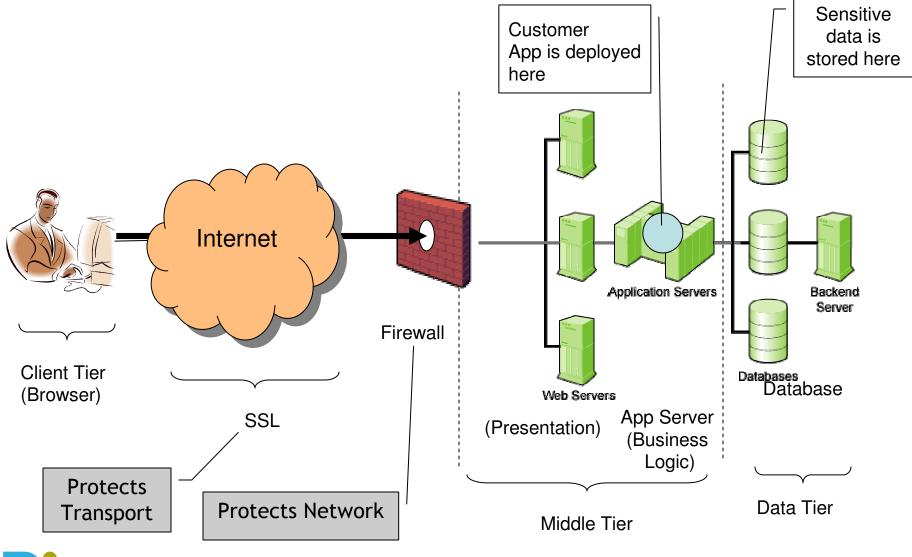
Top 10 list - Open Web Application Security Project



Application Threat	Negative Impact	Example Impact
Cross Site scripting	Identity Theft, Sensitive Information Leakage,	Hackers can impersonate legitimate users, and control their accounts.
Injection Flaws	Attacker can manipulate queries to the DB / LDAP / Other system	Hackers can access backend database information, alter it or steal it.

High Level Web Application Architecture Review







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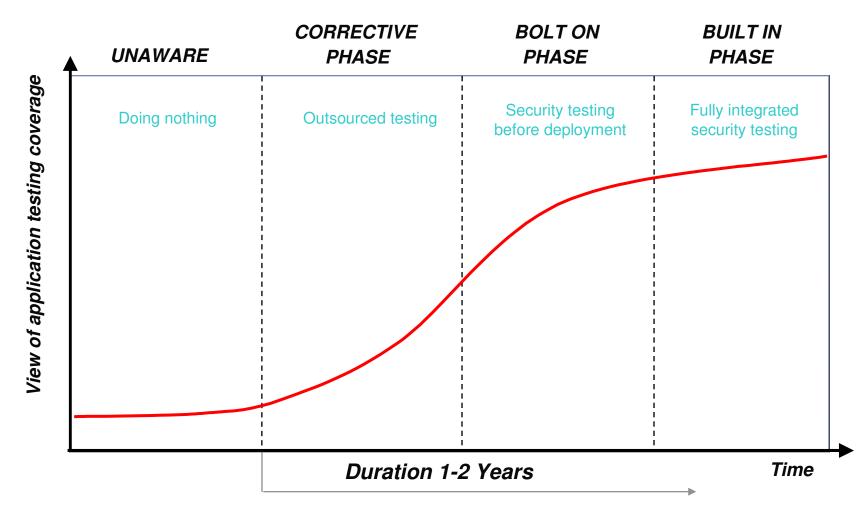






Application Security Maturity Model

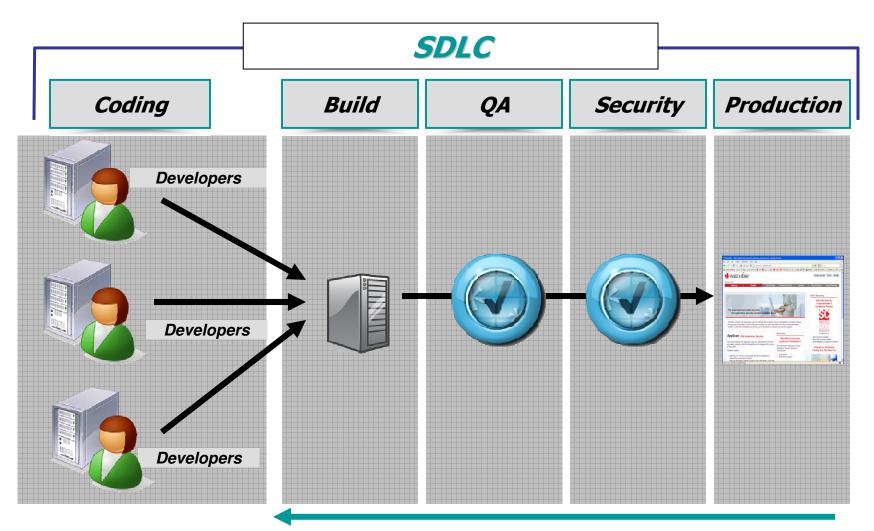






Security Testing Within the Software Lifecycle



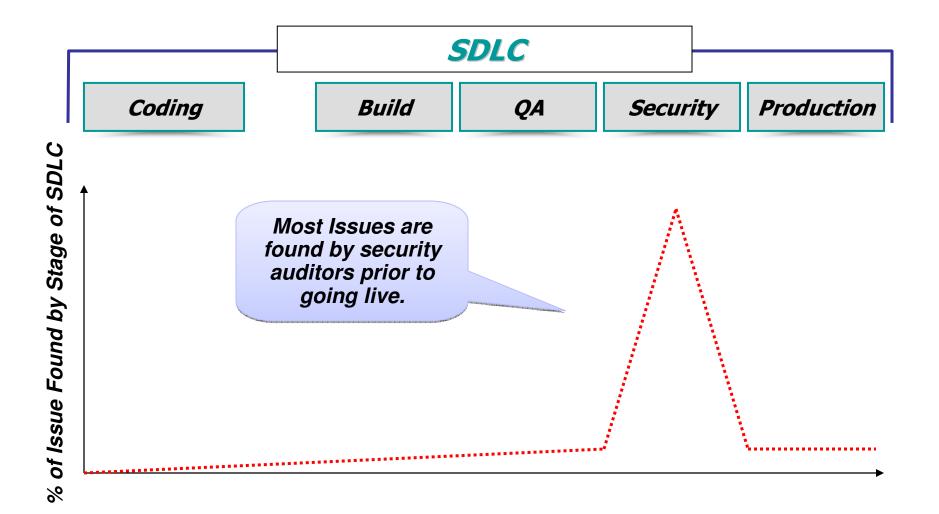


Application Security Testing Maturity



Security Testing Within the Software Lifecycle

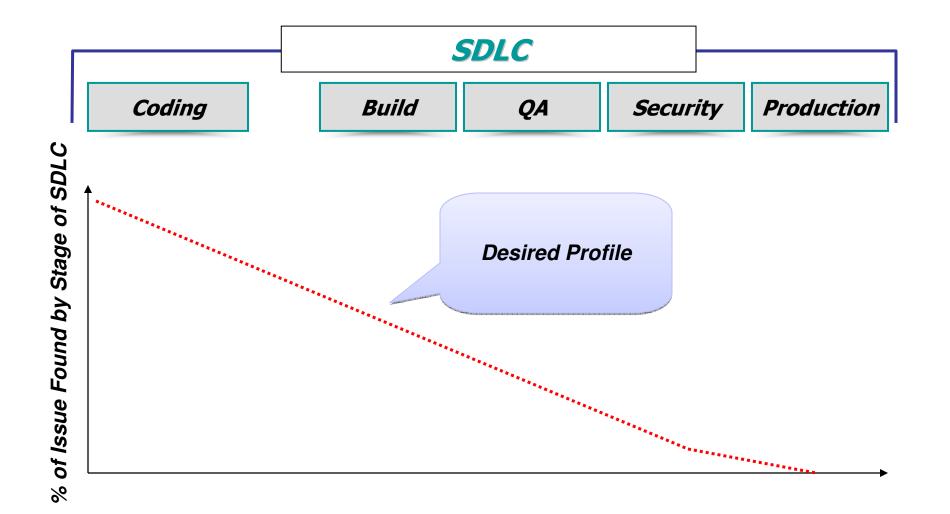






Security Testing Within the Software Lifecycle







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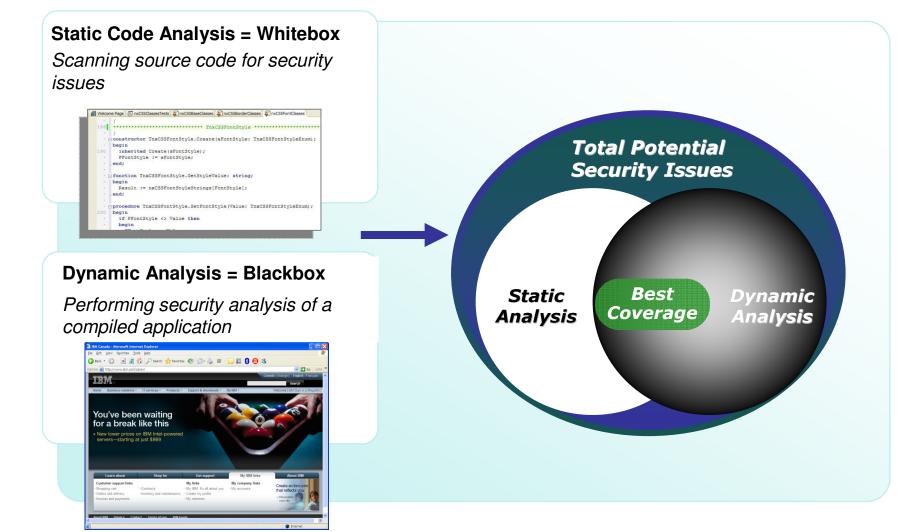






Security Testing Technologies... Combination Delivers a Comprehensive Solution

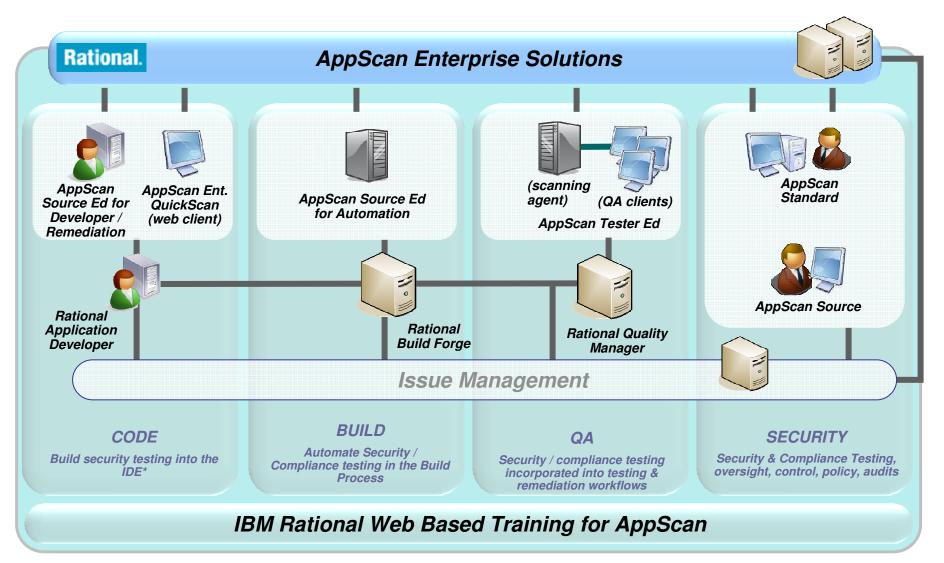






IBM Rational AppScan Ecosystem

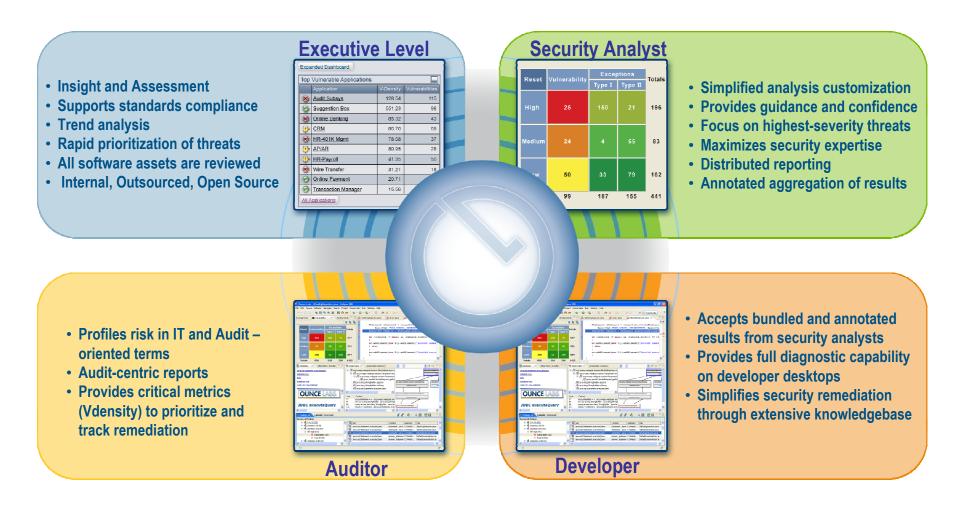






Whitebox: AppScan Source





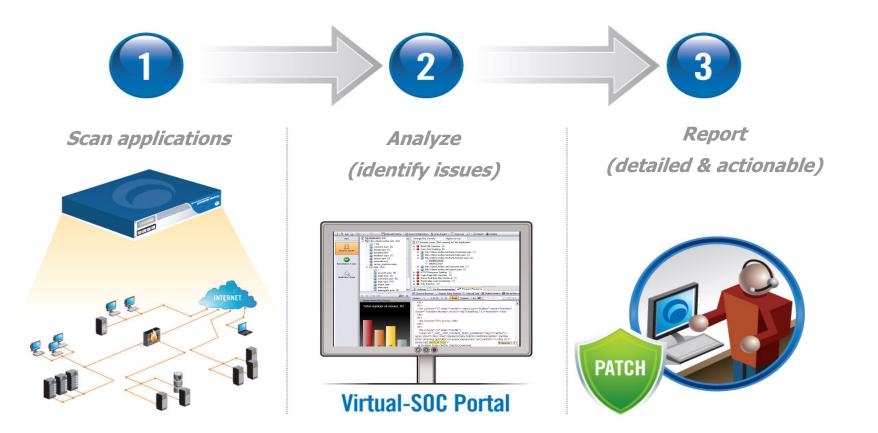
Supported technology: Java, JSP, C, C++, C#, ASP.NET, VB .NET, VB 6, Perl and PHP



Whitebox: How does Rational AppScan work?

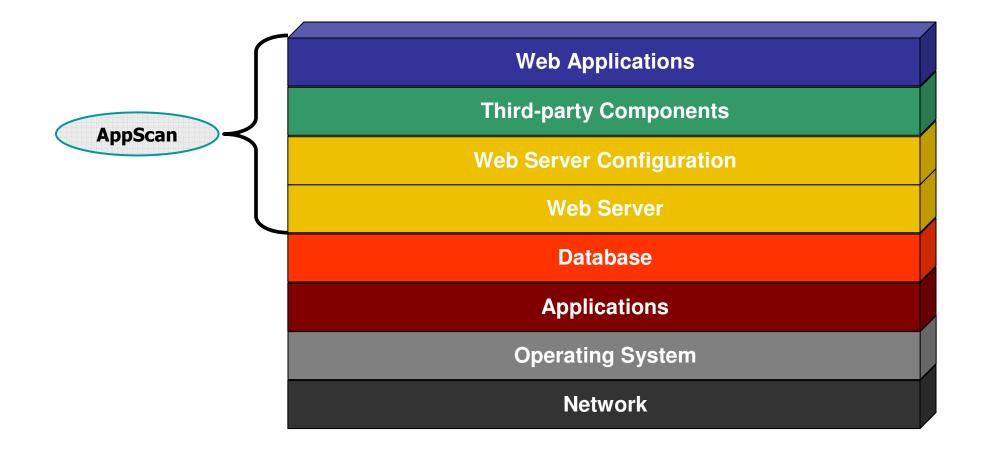


Automates Application Security Testing





Whitebox: What does AppScan test for?





Demo: Rational AppScan



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Resources



- Develop secure applications with Rational AppScan
 - <u>http://www-01.ibm.com/software/awdtools/appscan/</u>
- Try AppScan for 30 days
 - <u>http://www-01.ibm.com/software/awdtools/appscan/standard/</u>
- Test web application
 - <u>http://www.altoromutual.com/</u>
- Open Web Application Security Project Top 10 List
 - http://www.owasp.org/images/0/0f/OWASP_T10 2010_rc1.pdf



Conclusion



- Every one gets attacked!
- Security should be part of testing
- Whitebox: AppScan Source
- Blackbox: AppScan Standard

