

RISE OF THE PLANET OF THE ANONYMOUS



OWASP 14 April 2012 ERRAZUDIN ISHAK STAFF ENGINEER MIMOS BERHAD, MALAYSIA

errazudin.ishak@mimos.my +603 89955000

Copyright © The OWASP Foundation Permission is granted to copy, distribute and/or modify this document under the terms of the OWASP License.

The OWASP Foundation http://www.owasp.org





Agenda

You

Me

Anonymous

Why PHP

PHP Security

Resources



About Me

- Staff Engineer @ Mimos Bhd Malaysia
- Focuses on web application development, deployment, performance, security and stability.

About Me





About Me

 2009 foss.my , MyGOSSCON

2010

Entp. PHP Techtalk, BarcampKL, PHP Meetup, MOSC2010, PHP Northwest UK, MyGOSSCON

2011
 INTAN Tech Update, Wordpress Conf. Asia, Joomla! Day, MOSC, OWASP Day





Anonymous hackers are real people with real techniques



Anonymous will try to steal data first and, if that fails, attempt a DDoS attack



Volunteers: Skilled, Laypeople



Phases(25 days): Recruit, Reconnaissance and application attack, **DDoS**



Why So Serious?



News

for their censorship of the Web.



91

ATTACKED

76
RECOVERED

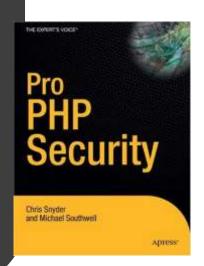
Source: http://goo.gl/oVjqz



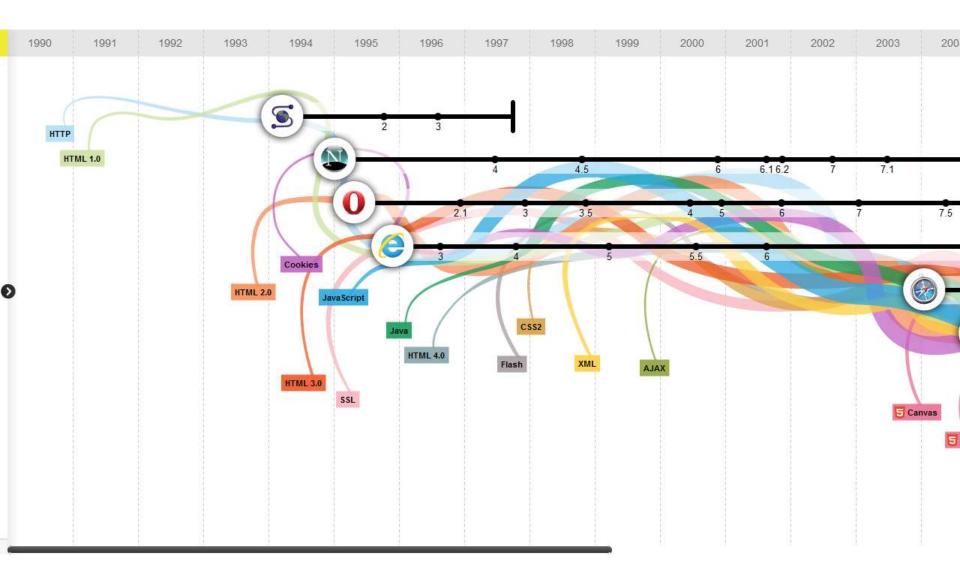


Internet

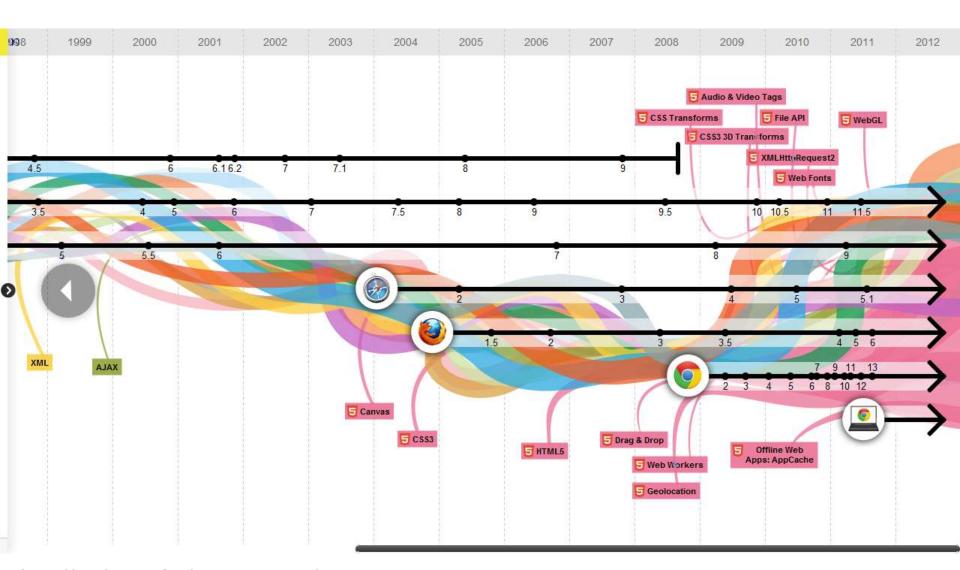
"...anonymous, uncontrolled, always on, and instantly accessible from anywhere"



Evolution..



.. becomes revolution



http://evolutionofweb.appspot.com/

..oopps



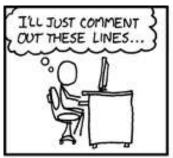
Does it apply here? (web security)

"Good programmers write code, great programmers reuse, awesome programmers...?"





Does it apply here? (web security)

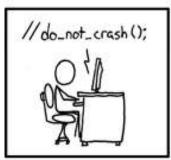


IN THE RUSH TO CLEAN UP THE DEBIAN - OPENSSL FIASCO, A NUMBER OF OTHER MAJOR SECURITY HOLES HAVE BEEN UNCOVERED:

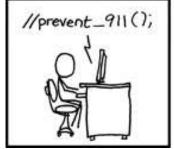


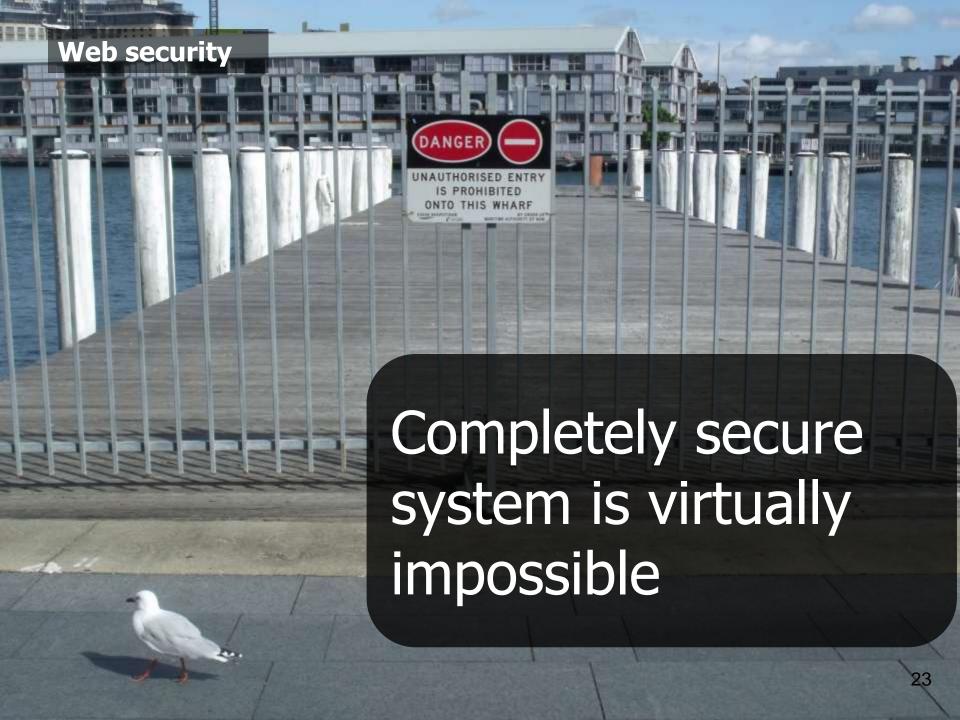
AFFECTED SYSTEM

SECURITY PROBLEM

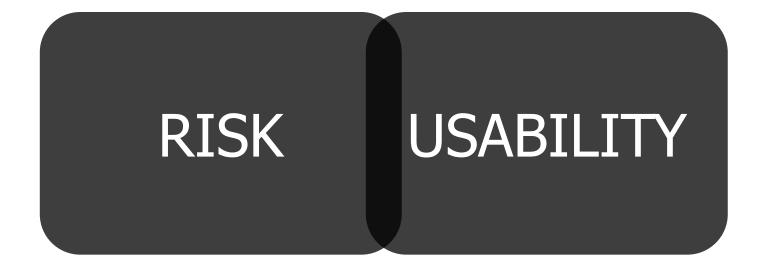








Why?



Agenda: Checkpoint

You

Me

Anonymous

Why PHP

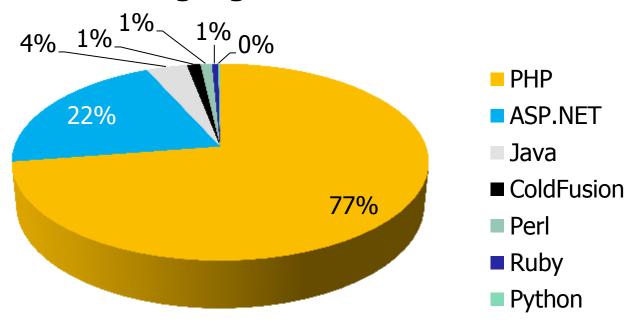
PHP Security

Resources

"More internet applications speak PHP than any other"

Why PHP

Usage of server-side programming languages for websites



Source: http://w3techs.com

PHP Secure?

User Enterprise PHP Developer

PHP Secure?

PHP is not the culprit, we (developer, sys admin, architect) are.

"People have to understand their systems well to know where security issues are likely to appear"

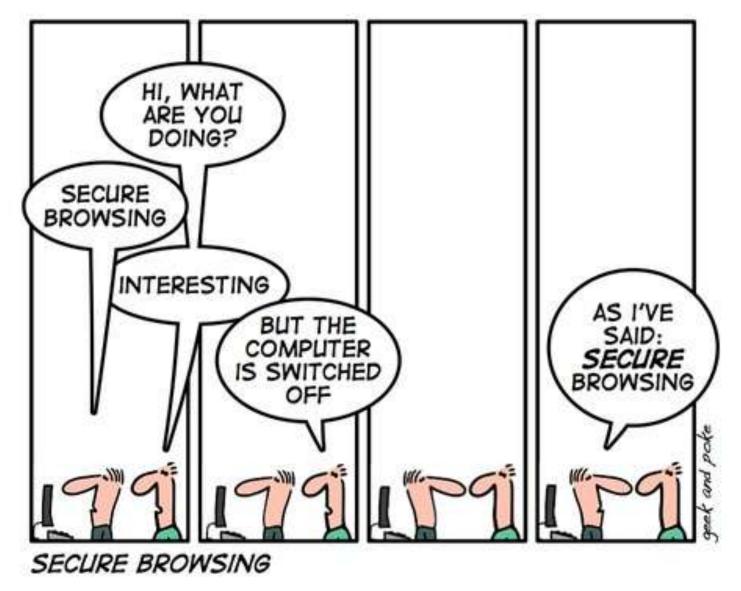
Agenda

You
Me
Anonymous
Why PHP

PHP Security

Resources



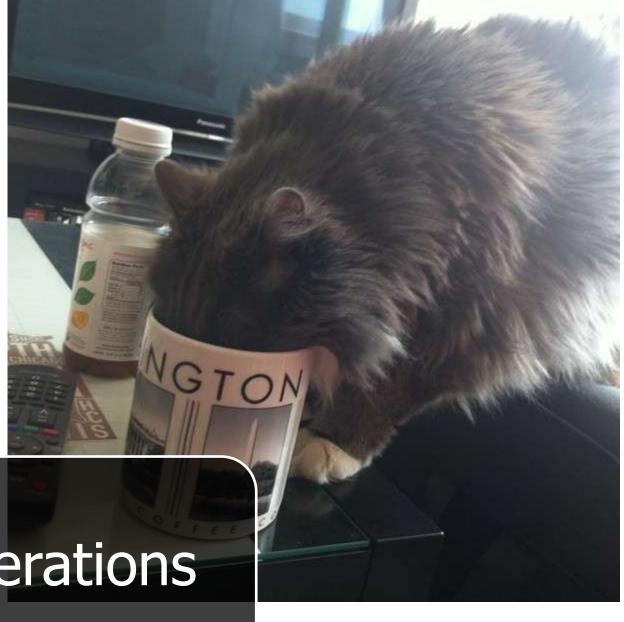


Secure Ecosystem, Maintain it! Dev/prod environment

Up to date

Secured network

Access (Permissions)



Secure Operations, also practice it!

Human only

User identification

Role based actions

Track/Audit trail



Secure Programming , practice it!

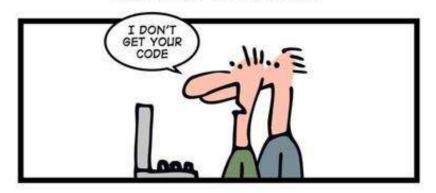
Input validation

DB

XSS/CSRF/Session

Access (Permissions)

CODING IS AN ART







OWASP

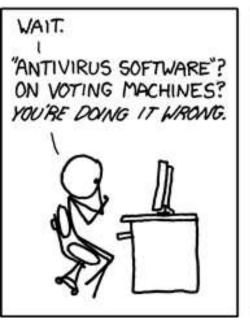


"Security take an ongoing effort and a lot of little things instead of one big one"

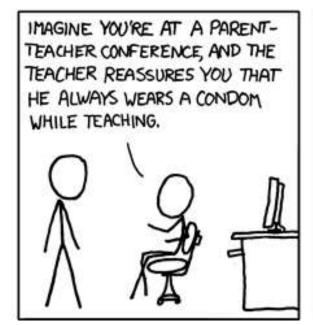
Security. (Remember Risk – Usability)

RISK USABI LITY

PREMIER ELECTION SOLUTIONS (FORMERLY DIEBOLD)
HAS BLAMED OHIO VOTING MACHINE ERRORS ON PROBLEMS
WITH THE MACHINES' MCAFEE ANTIVIRUS SOFTWARE.









Source: xkcd.com

Detect/Mitigate

Monitor the trend

Last resort = DDoS

Protect your apps

Proact, love your 'error messages' and unusual pattern:)

OWASP

Resources

php|architect's Guide to PHP Security

http://goo.gl/cUxuB

Pro PHP Security http://goo.gl/HGIkI

Defcon 19 http://goo.gl/S8Qw4

Artur Ejsmont's blog http://goo.gl/HGUkg

Imperva http://goo.gl/wmu5f

Arachni http://arachni-scanner.com

Suhosin http://www.hardened-php.net/suhosin/

Thank You