

Take Control of Your Web Applications Before Others

網站安全 - 先發制人、後發制於人

Agenda

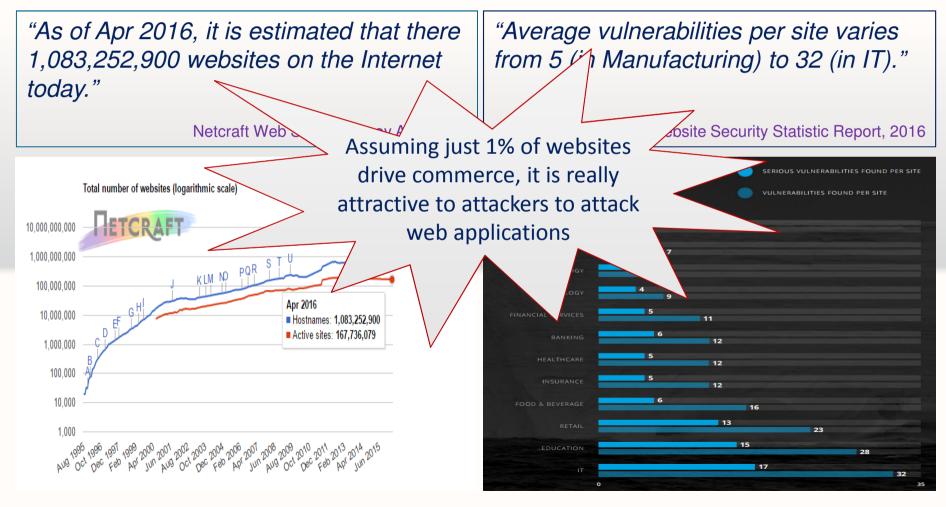


- 1 What is happening in the Internet?
- 2 How do we tackle these threats?
- Points to be noted in Vulnerability Scan
- 4 Some useful tools in Vulnerability Scan
- 5 Q&A



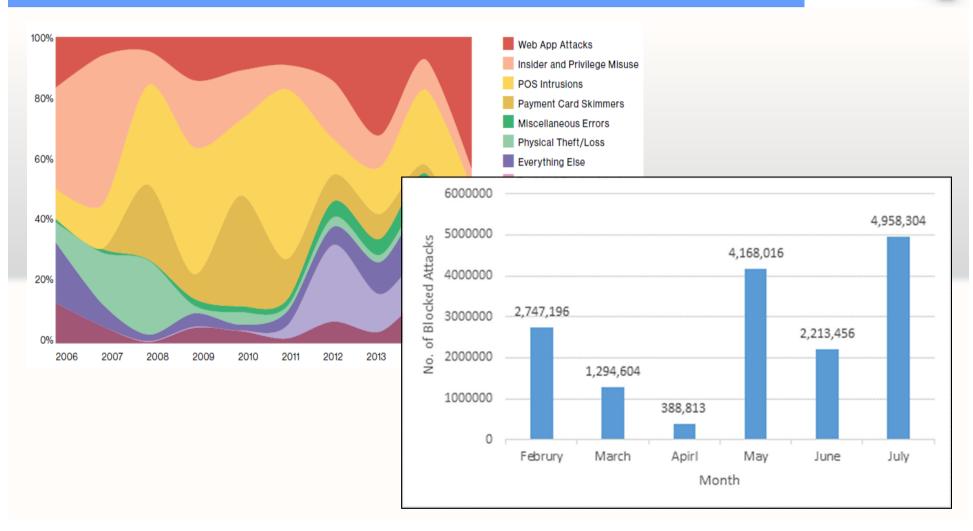
What is happening in the Internet?





What is happening in the Internet?





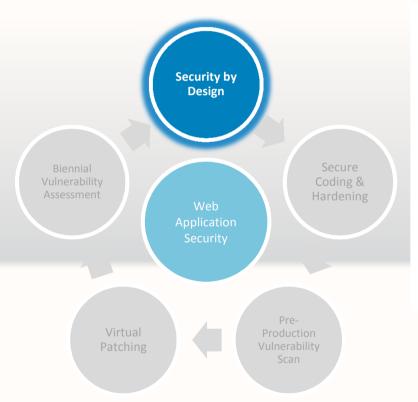
How do we tackle this threat?





Security by Design







Sample tender specifications are provided for reference.

Security requirements on web application developments are developed for user departments' reference.



GUIDANCE NOTES FOR SPECIFYING SECURITY CONTROLS IN THIRD PARTY AGREEMENT FOR INFORMATION TECHNOLOGY RELATED SERVICES

VERSION 1.0

Secure Coding and Hardening





Secure Coding Practices
are provided to developers.
Psecure Coding Guidelines
for Web Application & Mobile
And Development

Minimum Security Baseline

THE HONG KONG POLYTECHNIC UNIVERSITY

> Microsoft IIS 8.5 Web Server

> > Version 1.0

Security Hardening Configuration Standards are developed for various web server platform.



Minimum Security Baseline

Apache HTTP Server 2.2

Version 1.1

Pre-Production Vulnerability Scan





Pre-Production Vulnerability Scan is the cornerstone of our web application security strategy

All web applications / websites need to pass through vulnerability scan before production

It is a credential / authenticated scan

Virtual Patching







Application

Web CMS

Database

System



No input validation

Insecure Output Handling

Virtual Patching





INTERNET FW

NETWORK IPS

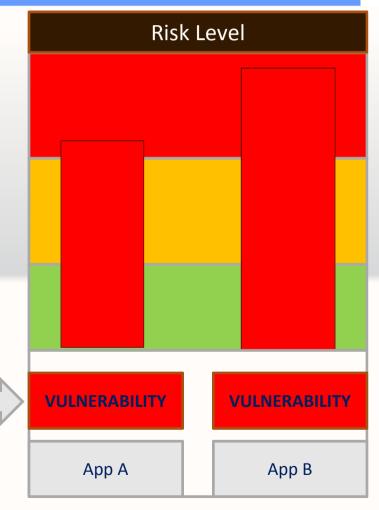
WAF

ENDPOINT SECURITY

THREAT INTELLIGENCE

WEBINSPECT

NEXPOSE



HIGH

MEDIUM

LOW

Regular Vulnerability Assessment





- Pre-Production Scan can only provide a snapshot. A regular vulnerability assessment is required in accordance with our security policy.
- Black Box Web Application Vulnerability Scanning from external IP addresses
 - Understand security state of an application from the outside looking in.
 - Will not exempt scanners' IP addresses on any security products like IPS / WAFs
 - No system / application credential is required

Points to be noted in Vulnerability Scan











Some Useful Tools



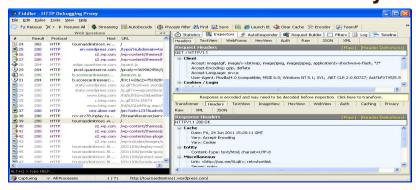
Open Source Vulnerability Scan Tools



Free Online Scan



Free Tools Useful in Vulnerability Scan

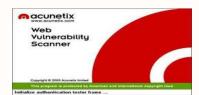


Commercial Vulnerability Scanners









THANK YOU!