

Cyber Security Threat Summary

Carl Leonard, Websense Security Labs

TRITON

- Web security
- Email security
- Data security
 - Mobile security







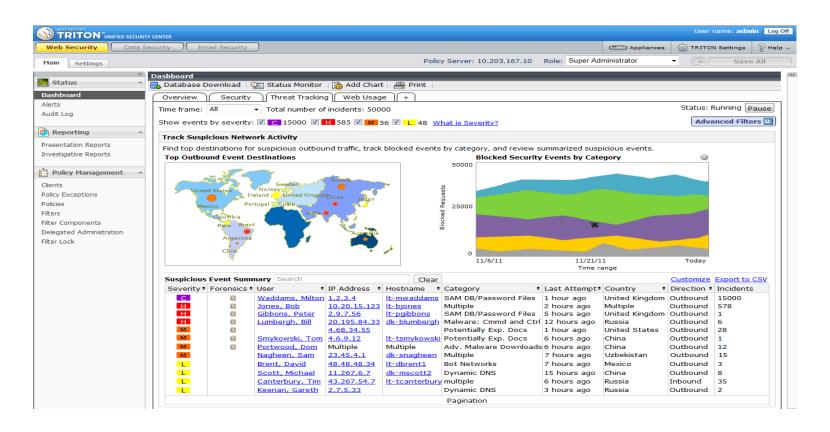
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Security Predictions for 2012 from Websense® Security Labs™

2012 Threat Report

Audience Definition:

- Security Directors, Managers and Administrators
 - Hands on admins seeking best practices to improve defense posture
- IT Directors, VPs and CISOs
 - Management seeking improved policy and approaches to reduce risk

Report Approach:

- Consultative and prescriptive advice backed by the latest incidents and facts
- Thought leadership on trends and changes in IT landscape
- Link to outside resources to validate or support positions (LINK: annotation)
- Attack examples from the WSL blog repeatedly note ineffectiveness of AV
- ACE is prominently positioned throughout the report



Trends in the Mobile Landscape

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Web security

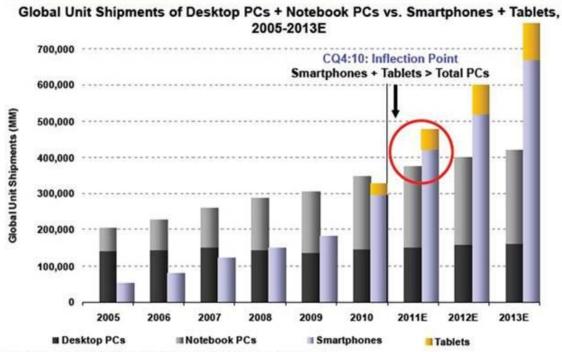
Email security

Data security

Mobile security

Tablets Outselling Laptops?





Note: Notebook PCs include Netbooks. Source: Katy Huberty, Ehud Gelblum, Morgan Stanley Research. Data and Estimates as of 2/11

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TYPES OF DEVICES METHODS OF ACCESS TYPES OF DATA STORAGE OPTIONS APPS USED

















CORPORATE DATA



PERSONAL DATA



CLOUD STORAGE



ON-DEVICE STORAGE



EXTERNAL STORAGE



BUSINESS APPS







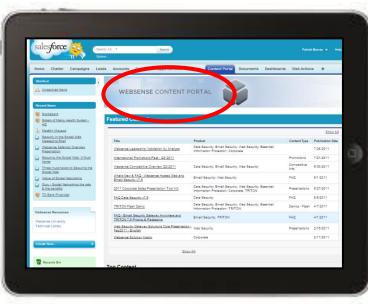


CONSUMER APPS

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Examples of Data at Risk









Morning Excercises

TRITON™

- Web security
- Email security
- Data security
 - **Mobile security**

Exercise: Think Like a Hacker

How would you attack an organisation?



Exercise: Let's Create an App



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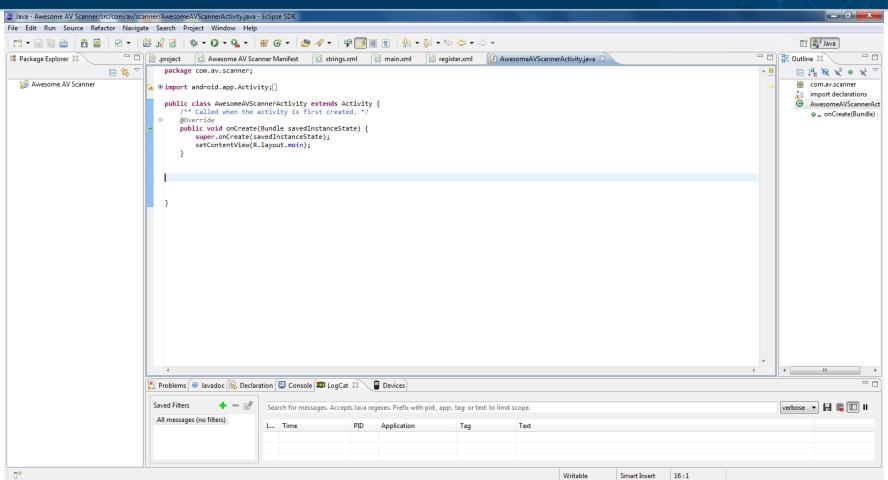




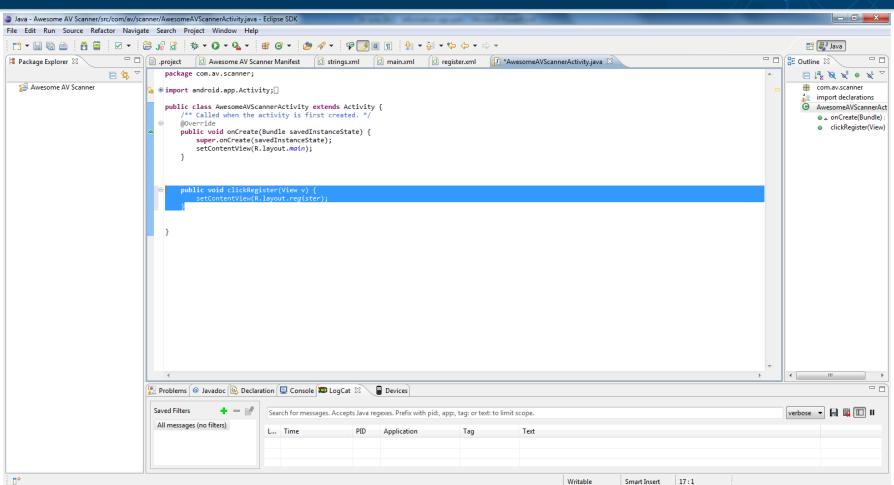


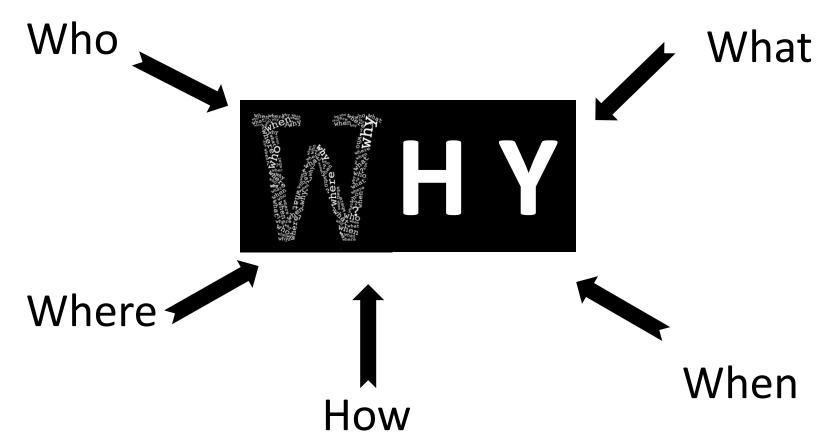
Rogue App - version 1



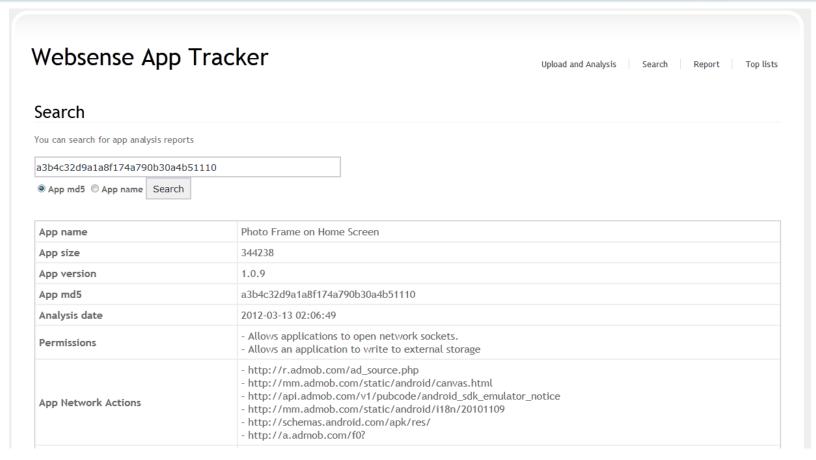








App Analyser





Attack Vectors to Look Out For

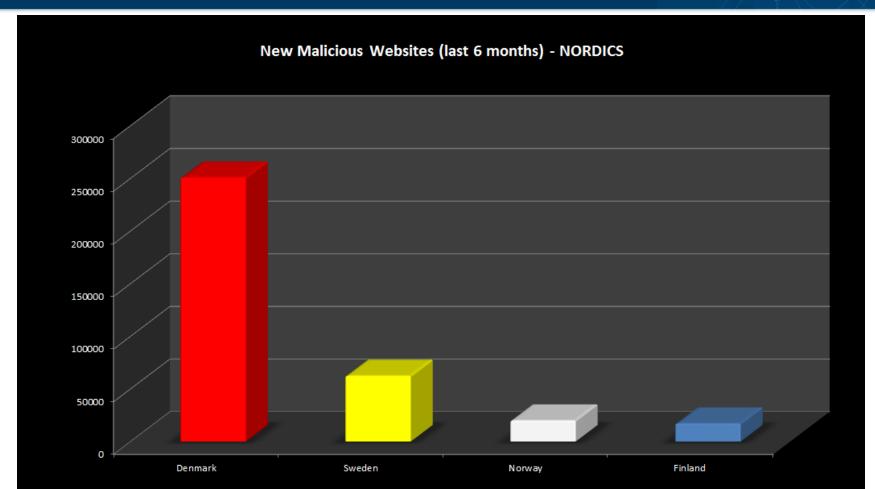
TRITON™

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- **Email security**
- Data security
 - **Mobile security**

Top 10 Neighbours



Top Nordic Threats



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App Tricks

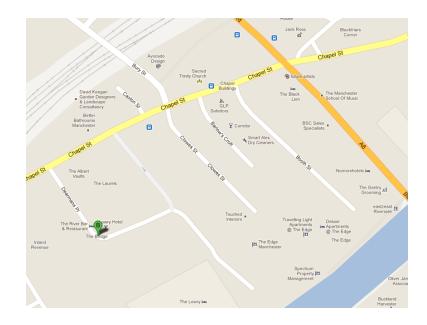






Location-based Services

- Delivering customised content to users
- More powerful on certain devices
- Social Engineering



Hi, please click here Hi Dan, shall we meet at <u>TGI Fridays</u> later?

QR Codes



http://iJustStoleYourData.co.cc/

Spear Phishing



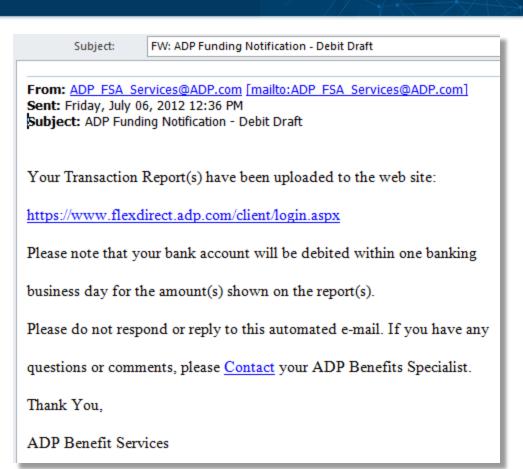
Recent Example

Financial notification

Appears as payroll related

Debit to bank account

Online transaction report

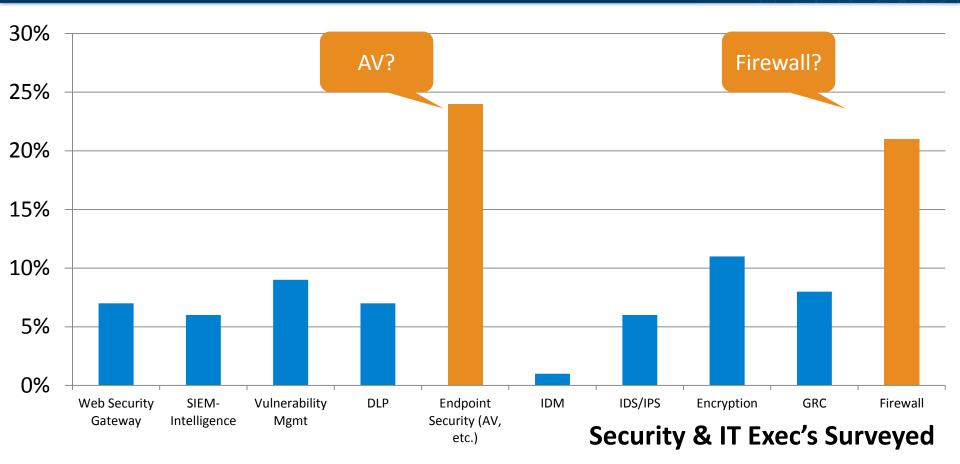


Web Exposure Drives Information Theft

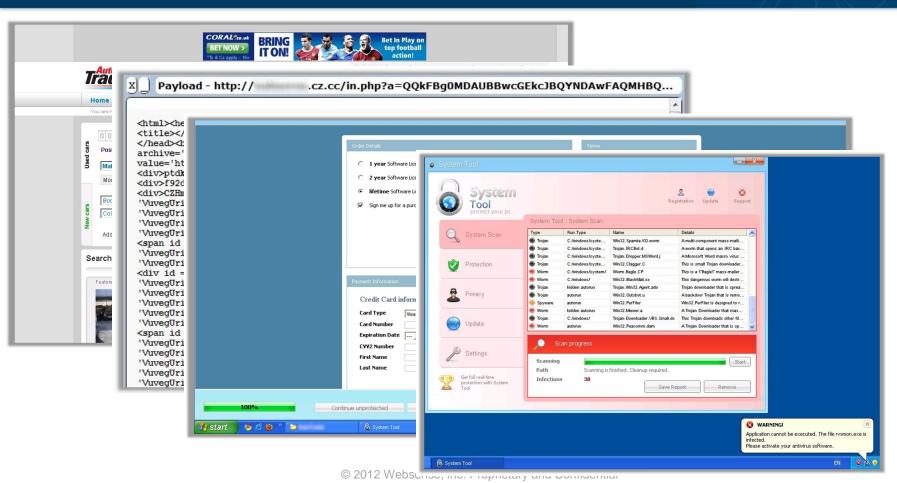
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Insider abuse	52%
Malicious software download	48%
Malware from a website	43%
Malware from social media	29%
System glitch	19%
Do not know	16%
Malware from a message	5%





Case Study #1 - malvertising



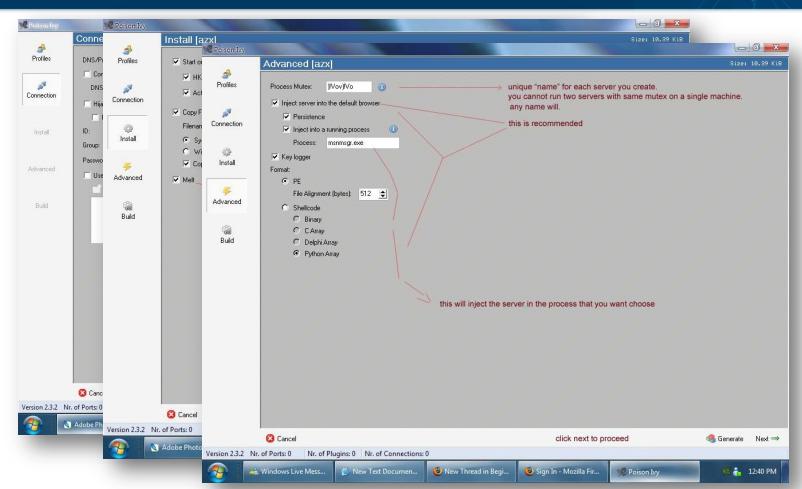
Case Study #2 - targeted attack

Attack Profile

- Attack Vector: Email
- Payload: File used a custom packer
- Communication: C&C hosts (Dynamic DNS)
- Period of Activity: 1 month
- Outcome: Several confidential files stolen

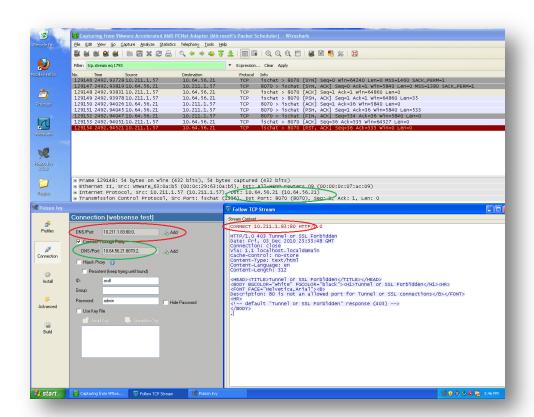
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Case Study #2 - targeted attack



- It's always blocked
- It uses a custom protocol.
 WSG sees that it's not valid HTTP(s) traffic and drops the

connection





Our Technology

TRITONTM

- Web security
- **Email security**
- Data security
 - **Mobile security**



Unified Architecture/Security Intelligence/Console/Policy/Reporting



websense® THREATSEEKER NETWORK

Unites over 850M research points. Analyzes 3-5B requests per day.



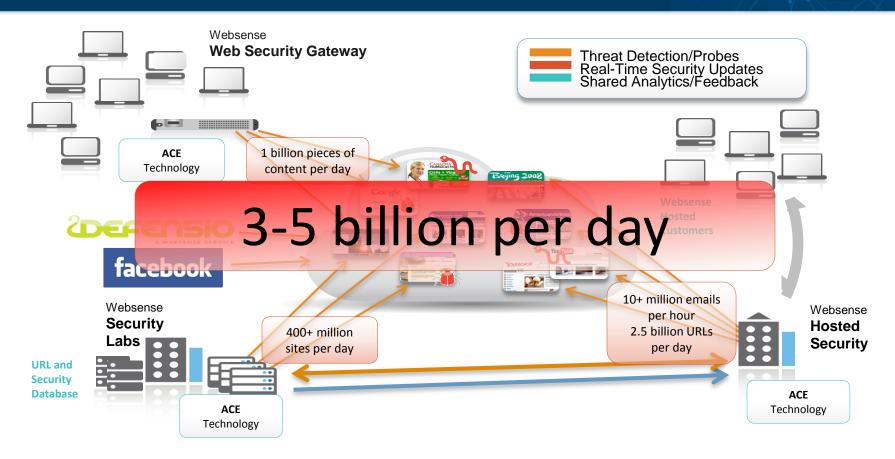
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ACE ADVANCED
CLASSIFICATION
ENGINE



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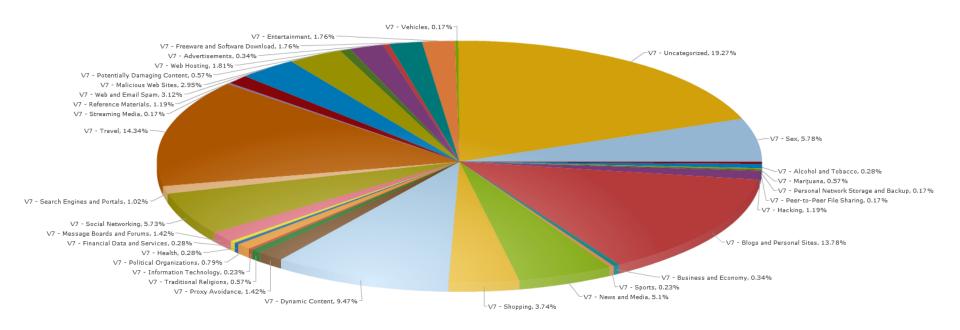
Big Data = Big Opportunity



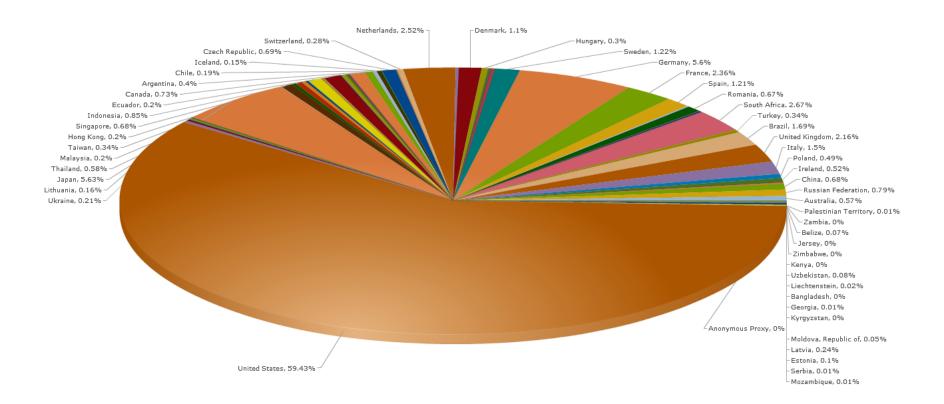
Advanced Classification Engine (ACE)



How Exposed Are You?

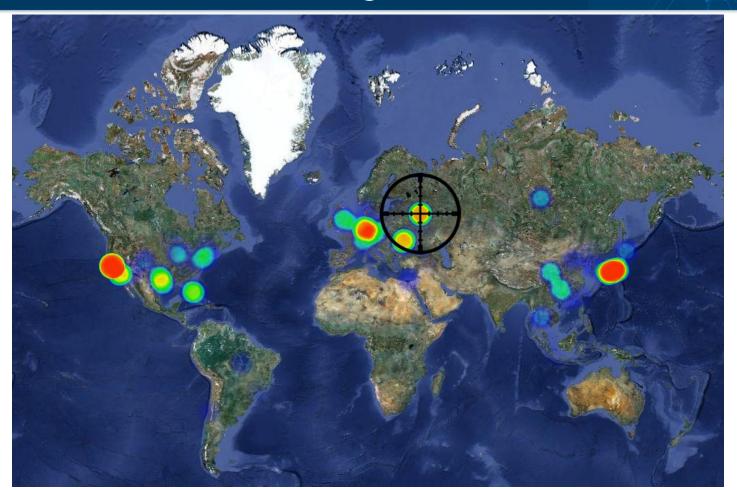


By Geography



- 1. Social Media accounts and targeted attacks
- 2. Mobile attacks
- 3. SSL traffic creating blind spot
- 4. Containment is new prevention
- 5. London Olympics, US Presidential Election

While we have been talking.....



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