

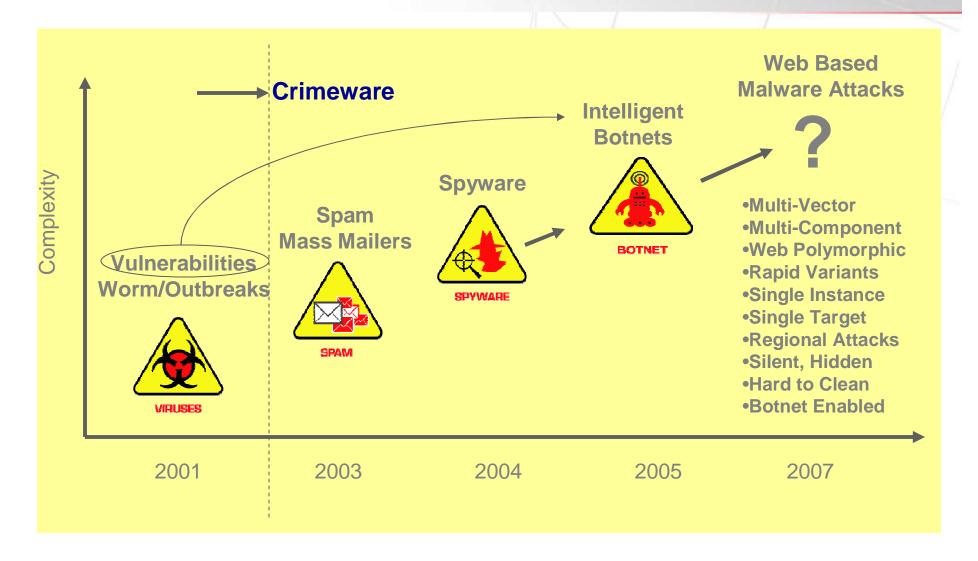


The Evolving Threat Environment –
Trend Micro Total Web Threat Protection

## Stallion Winter Seminar 2008

Veli-Pekka Kusmin Pre-Sales Engineer Trend Micro Channel Confidential March 2008

### Threat Environment Evolution to Crimeware world





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#### **DEFINITIONS**

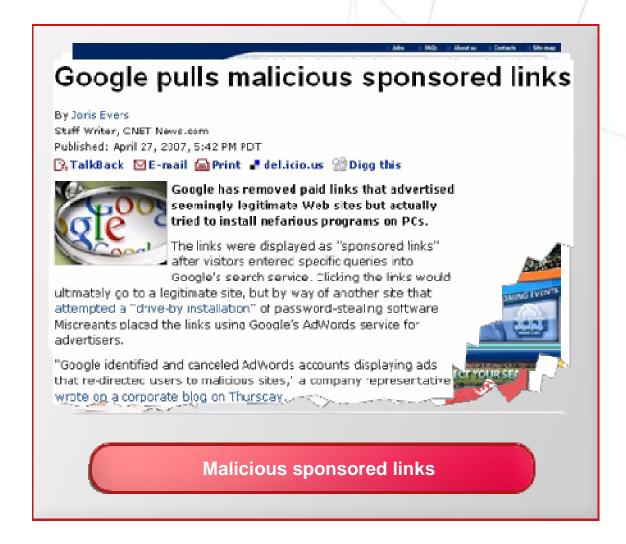
- Bot:
  - Software robot
  - Allows a system to be controlled remotely without user's knowledge
- Zombie
  - System controlled by a Bot
- Botnet:
  - Network (group) of zombie systems controlled by the Botherder (Botnet owner)



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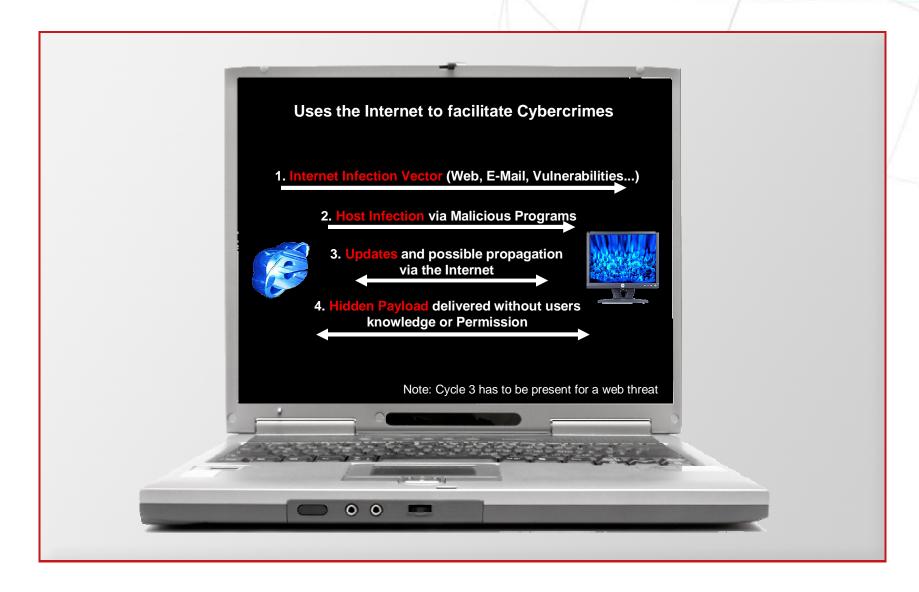


### Malware for Profit is driving Web Threats





#### Web Threats - Revisited





## **Key Web Threat Examples**

- Spyware that was installed upon visiting a website
- Bot that receives commands via IRC or thru web pages
- Adware that was installed after downloading a cool program from the Internet
- Trojan that was installed from a JPEG exploit upon visiting a website that was clicked from an email received
- Virus that was spread from a program downloaded from the internet
- Worm that started blasting copies of itself after disguising itself as a downloadable widget for golfers

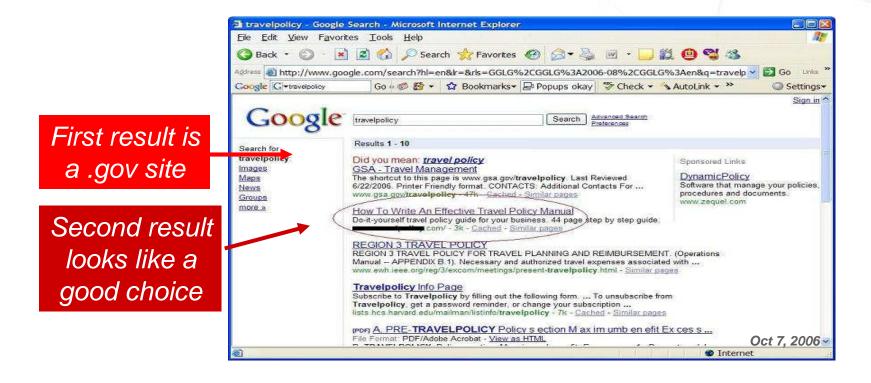






## **Example: Haxdoor**

- 1. Your boss asks you to develop a corporate travel policy
- 2. You begin with a Google search on travel policy

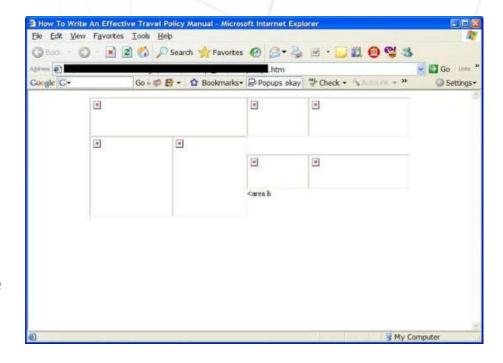




**Example: Haxdoor** 

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- You click on the second search result
- 2. You wait...the site appears to be downloading images and content...you wait...and you wait...
- 3. Finally you close the browser window...you'll find another site





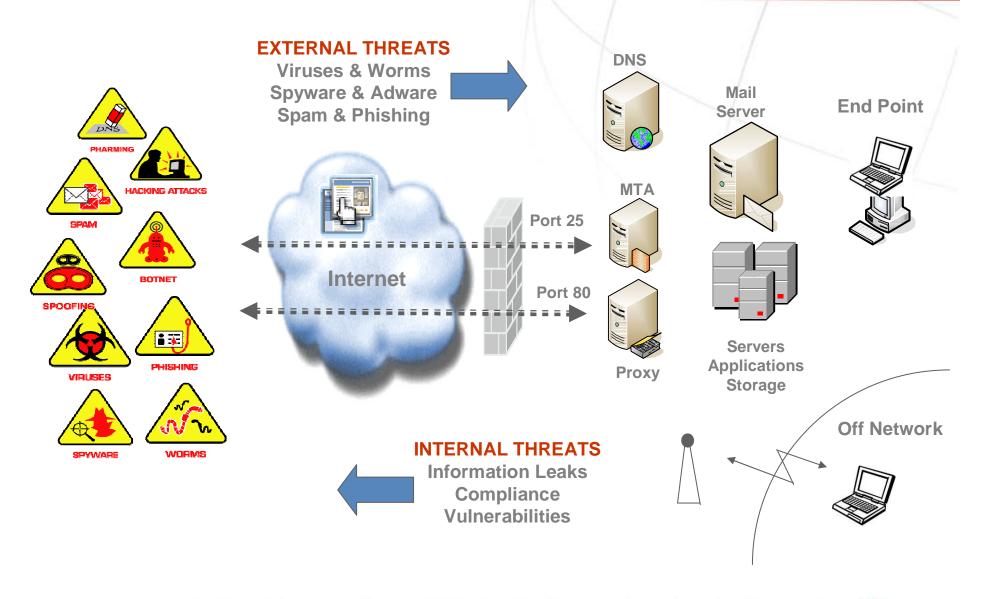
## **Example: Haxdoor**

#### Unbeknownst to you...

- 1. The IFRAME at the top of the page leads you to an index.html file
- 2. This file includes a script that exploits the **MS Internet Explorer (MDAC) Remote Code Execution Exploit** (MS06-014)
  - The original exploit code has been modified to try to bypass AV scanners that detect the original exploit
- 3. An executable file (win.exe) is downloaded to your system and executed
- 4. You now have a backdoor with rootkit features—a variant of the notorious family of backdoor rootkits known as Haxdoor!



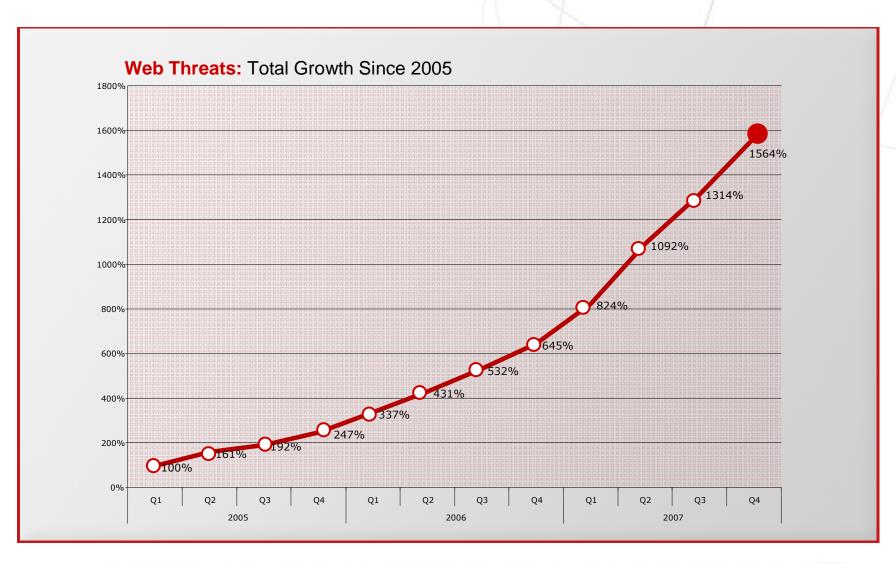
## The Major Threat Vectors are Business Critical Web World



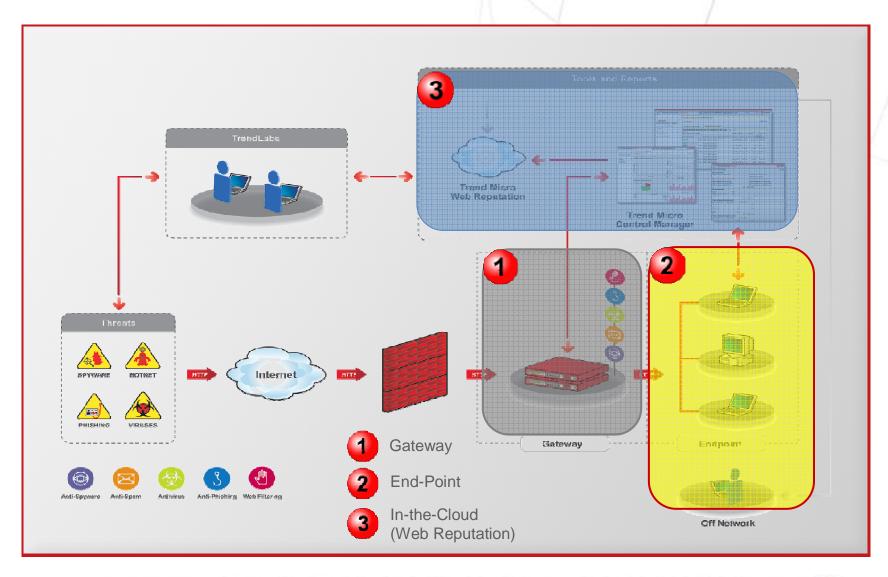


### Threat landscape is shifting to Web-borne attacks

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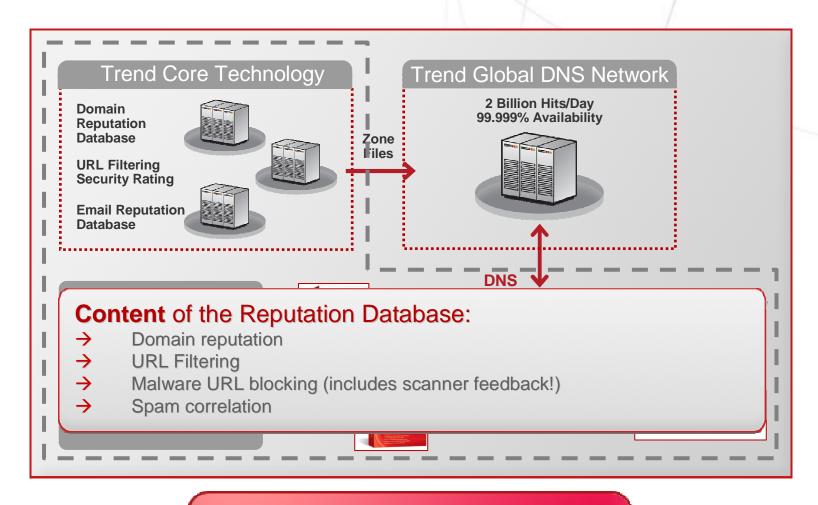








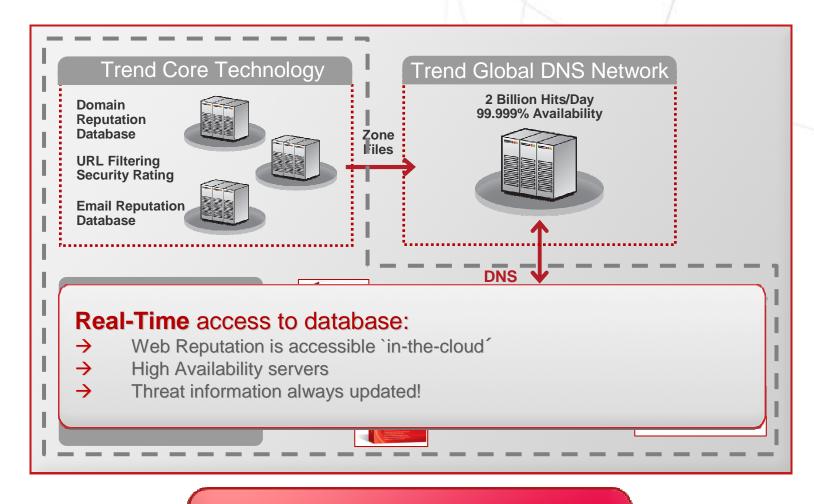
## Total Web Threat Protection: Web reputation is unique!



The most comprehensive reputation database



## Total Web Threat Protection: Web reputation is unique!



No more risks due to missed updates!



### Why Different from URL Filtering Alone?

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- URL filtering as a Web security solution is like capturing criminals by sending out "WANTED" posters
- Not always up to date
- Only known offenders with previous convictions are listed
- No way to recognize potential new offenders



### Web Reputation is the 21st Century Solution were worten

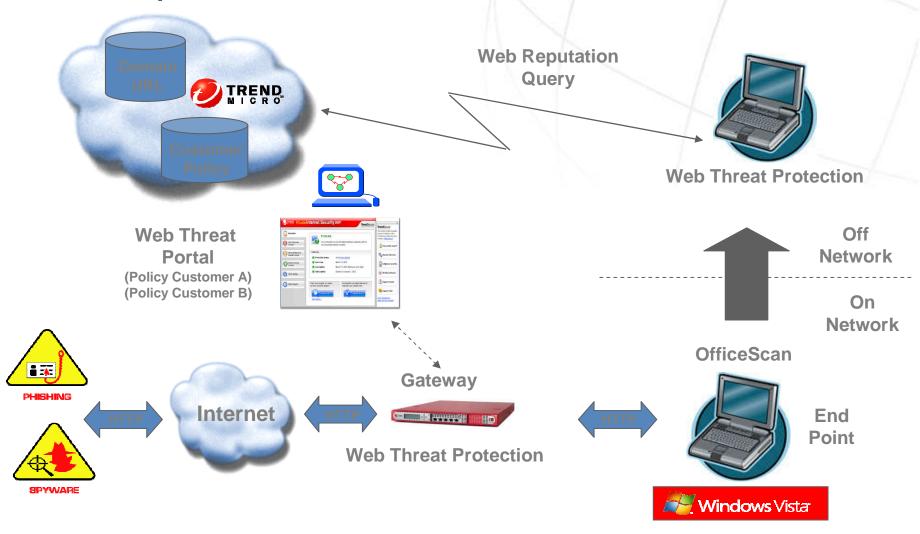
- Exhaustive databases with full profiles on:
  - Known offenders
  - Suspected offenders
  - Possible future offenders
- Constantly updated with input from all over the world
- Instantly accessible by any special agent (Trend product)
- Protect unknown malware and sequential attacks through in-thecloud Web security rating service
- Web Reputation comprised of 50-plus web site characteristics
  - Static characteristics
  - Historic characteristics
  - Community characteristics
  - Geographic characteristics
  - Web Pages/contents characteristics
  - IP characteristics





### OfficeScan 8: End-point Web Protection

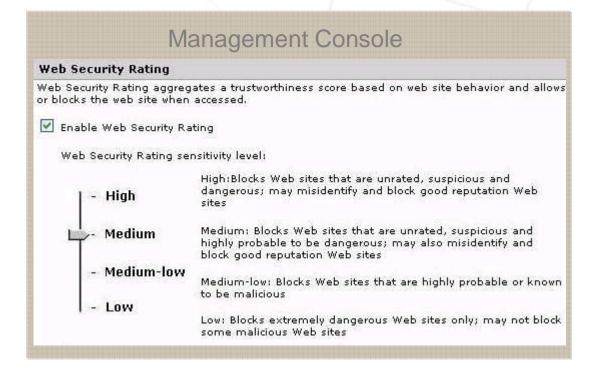
**Mobile Computers On and Off the Network** 





### OfficeScan 8: Adjustable Sensitivity Level and Micro Your Web World

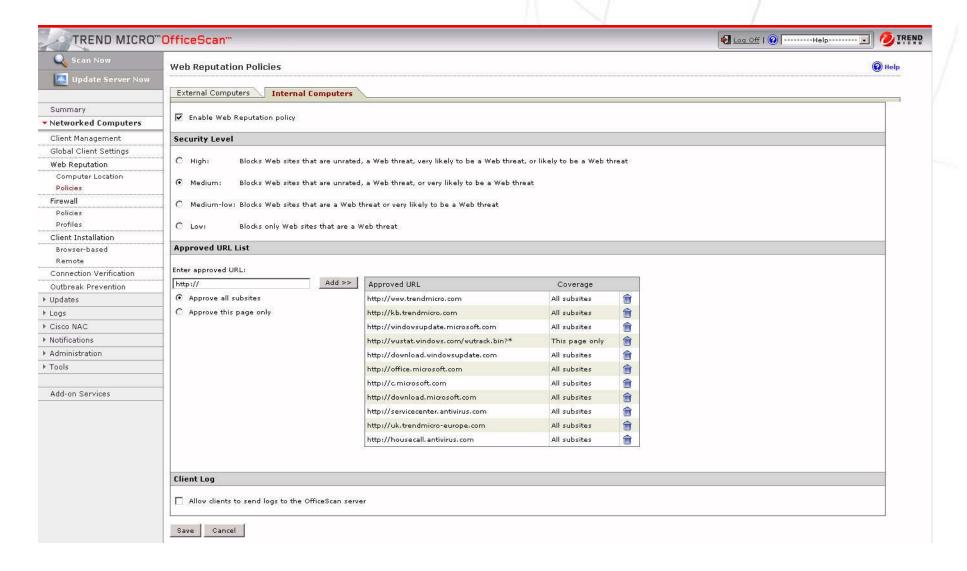
- Administrators are allowed to set the protection level based on the query results from Web Reputation
- Actions can be taken upon violation
  - Block, pass but report
- Web Reputation overrides URL filtering policies





### OfficeScan 8: What the IT Admin Sees

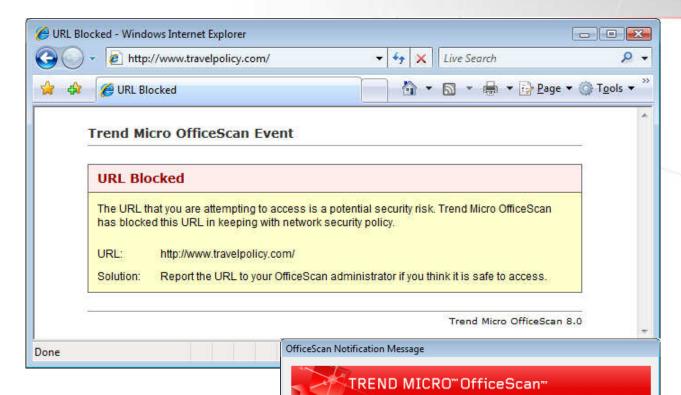
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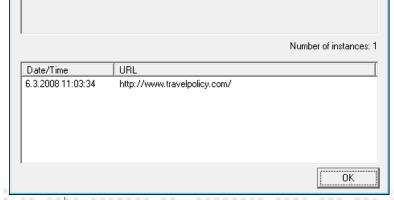
### OfficeScan 8: What the End-user Sees

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Browser:

Client popup:

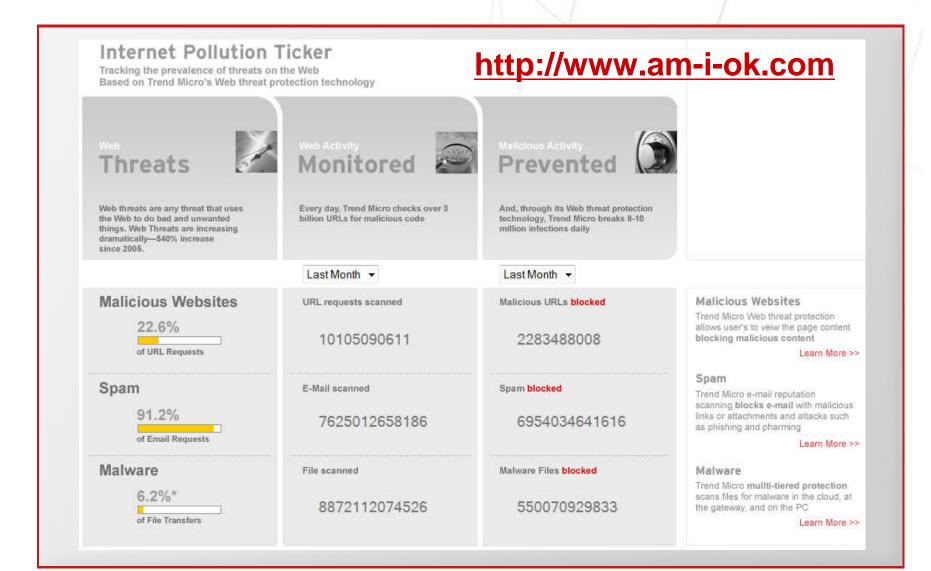


OfficeScan detected a Web security policy violation and blocked the URL(s) listed below.



### Real-time stats on web reputation

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### **Total Web Threat Protection - Summary**

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→ Malware writers are motivated by profit not fame

- → New malware is:
  - Constantly changing
  - Aimed to be undetectable
  - Intended to reap information for profit (botnets)
- → Pattern matching is less and less viable:
  - Constantly changing malware signatures
  - High volume of patterns leading to HUGE pattern files
  - Rate of pattern updates required is untenable

You need total web threat protection from Trend Micro



## **Total web threat protection**

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