

Current Cyber Investigation Challenges in Digital Forensics

Ву

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Presented At

The Digital Forensic Research Conference

DFRWS 2006 USA Lafayette, IN (Aug 14th - 16th)

DFRWS is dedicated to the sharing of knowledge and ideas about digital forensics research. Ever since it organized the first open workshop devoted to digital forensics in 2001, DFRWS continues to bring academics and practitioners together in an informal environment. As a non-profit, volunteer organization, DFRWS sponsors technical working groups, annual conferences and challenges to help drive the direction of research and development.

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DFRWS 2006

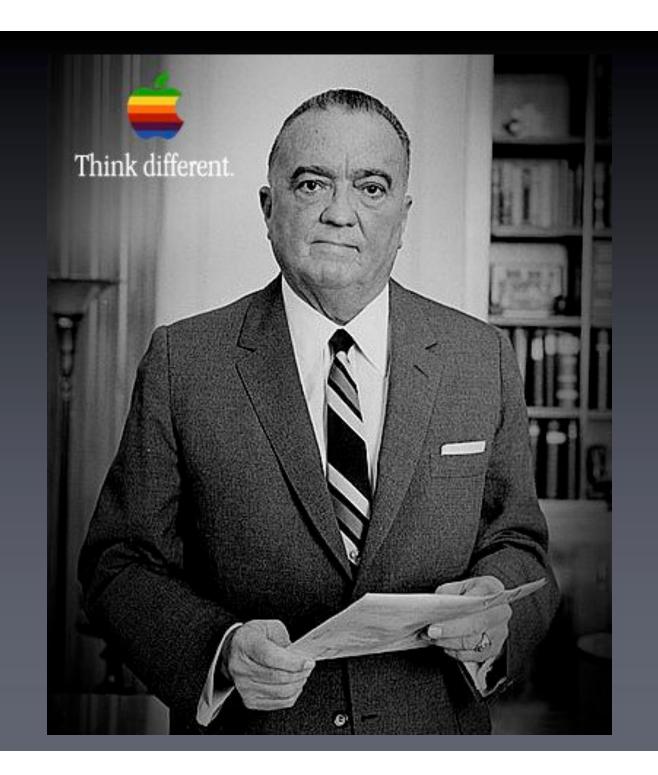
Challenges in Digital Forensics



FBI Computer Scientist



think solve accomplish



Agenda

- Current Trends
- Top 10Challenges

Crime is the problem, not hacking



Profit-driven criminal activity

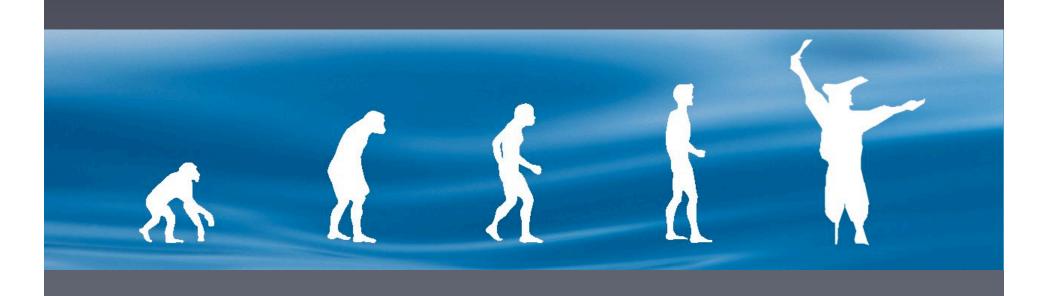




Underground market for crimeware



Evolution of the cyber criminal ecosystem















Botnets

"A botnet is comparable to compulsory military service for windows boxes."

Stromberg







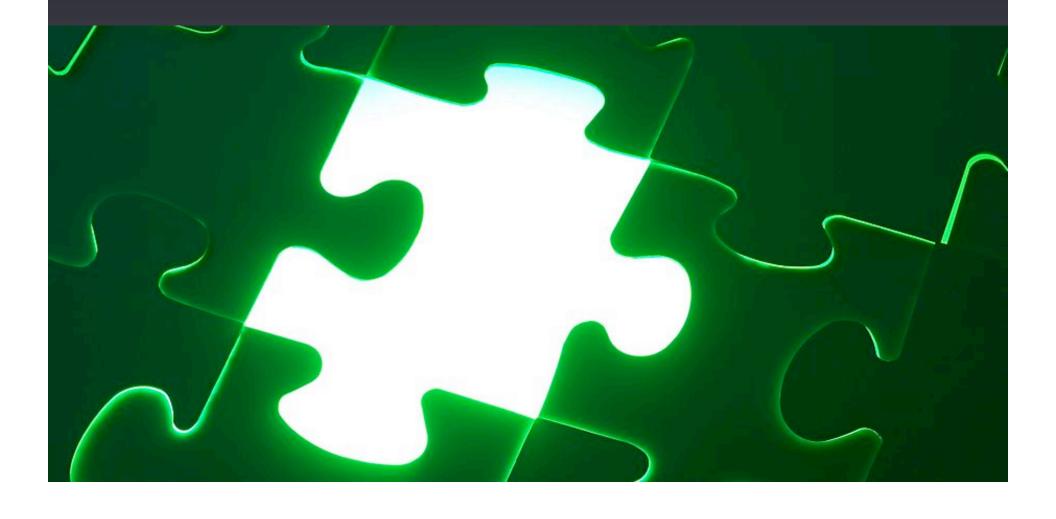




47 Million

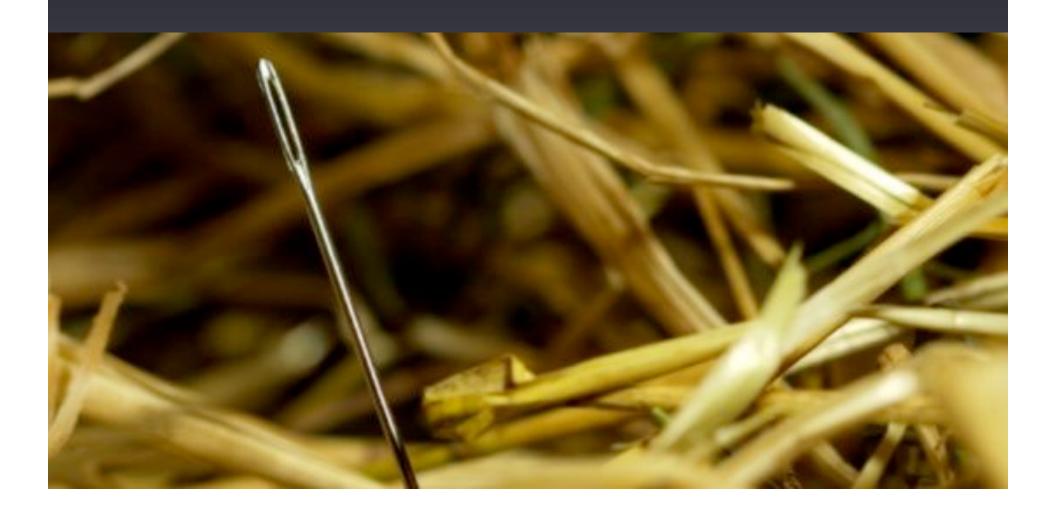








Volume of Evidence



Video & Rich Media



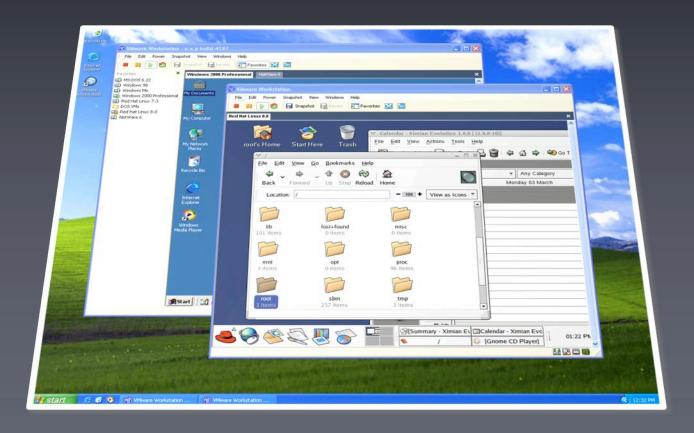
Whole Drive Encryption



Wireless



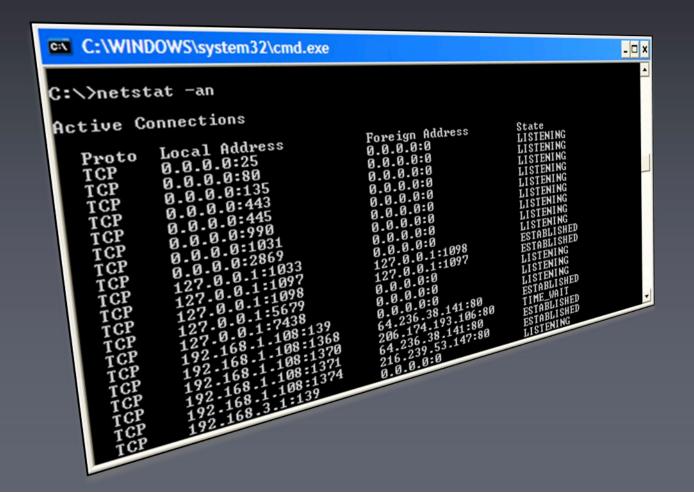
Virtualization



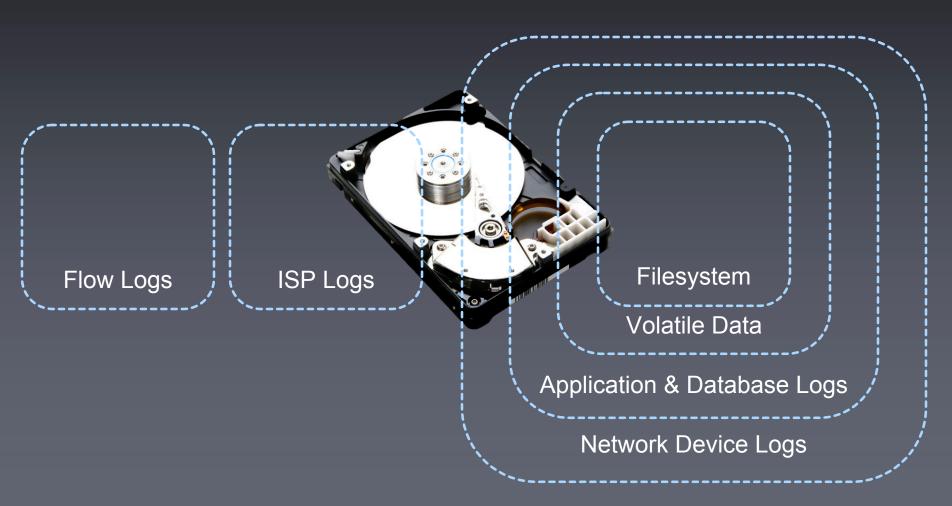
Anti-Forensics



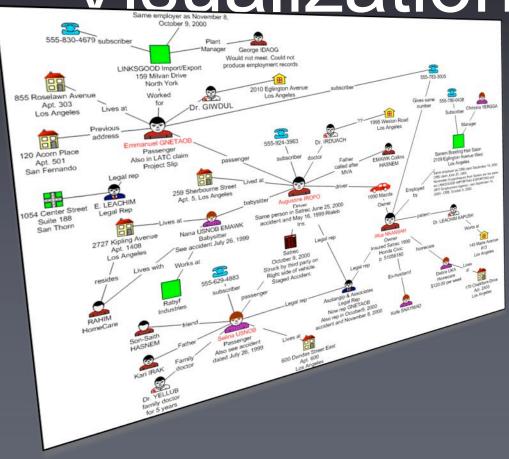
Live Response



Distributed Evidence



Usability & Visualization



"Do not go where the path may lead, go instead where there is no path and leave a trail."

Ralph Waldo Emerson