

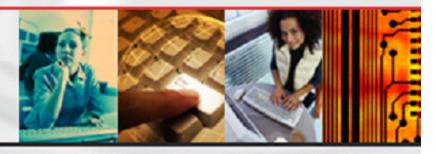


The Broken Web:

Identifying Weaknesses and Strengthening Internet Security



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l am:

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- Security Researcher
- Technologist
- Certified in a bunch of stuff
- Employed by
 - NET2S / British Telecom



- Crime
- Hackers
- The Internet





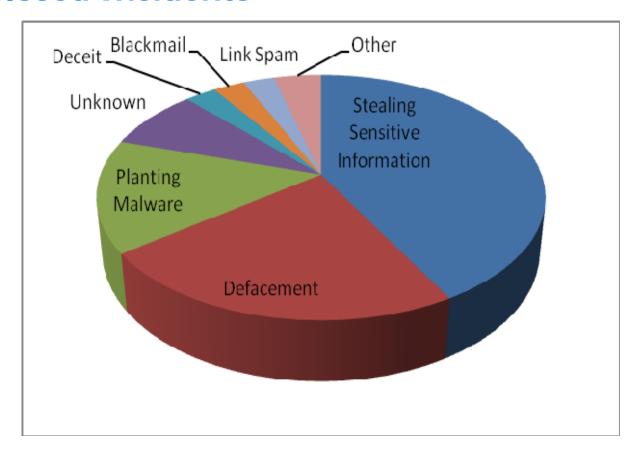








Disclosed Incidents

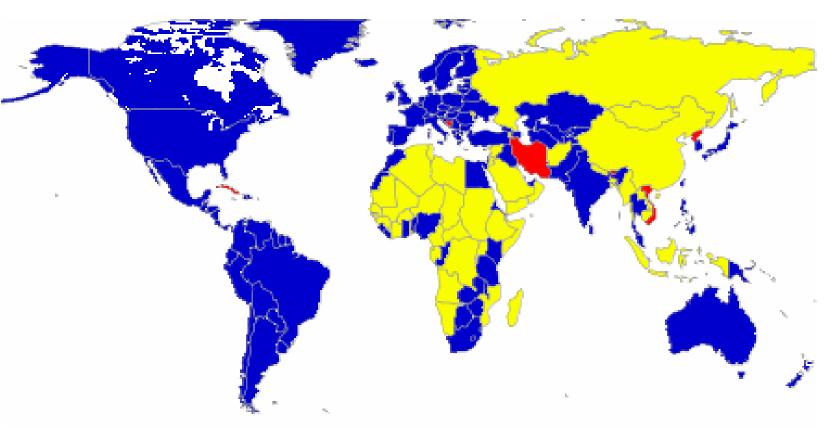




^{*} Source: http://www.xiom.com/whid

Evasion Techniques

Foreign-hosted servers



- Countries which the U.S. maintains diplomatic relations, but does not have extradition treaties with
- Countries which have neither diplomatic relations nor extradition treaties with the U.S.





Compromised hosts

- Open WiFi
 - Public Networks
 - Home / CorporateNetworks



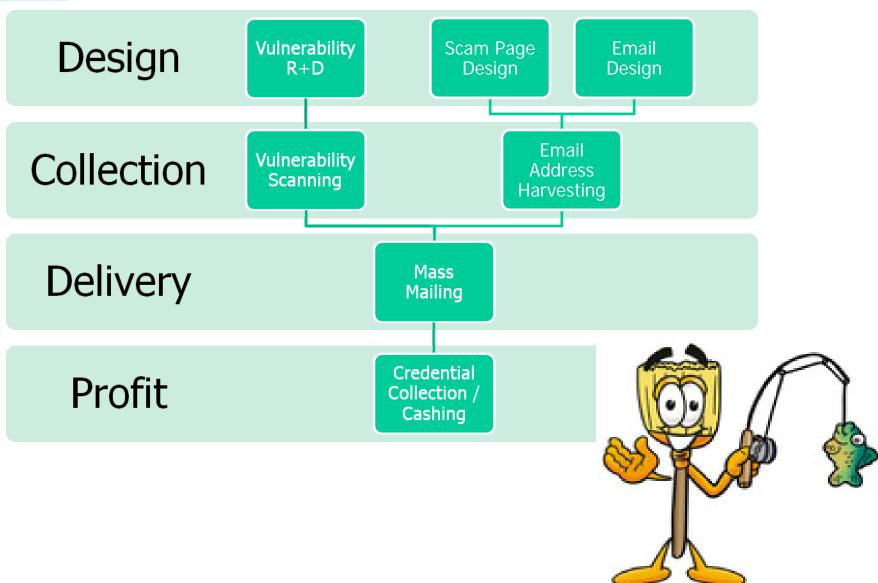


- Goals
 - Monetary Theft
 - Identity Theft
- 2007 \$3.2 Billion Lost
 - 3.6 Million adults in the US



^{*} Source Gartner







```
10:27:16 < maggii> C99 R57 mail List Uk/US/Ger/TY/Aol/De >>>>
10:27:18 < scurecode> :Selling: Root SHell Cpanel VPS+RDP For AMS Or for what u want Sock All
                     Contery Mail-List Uk/US/Ger/Ar/Tyrkey And Leads Mail List C99 R57 Shell
                     FTP Hacked SMTP All Conterv IP Fresh OR web Orange VNC WEbmail Cvv2/UK/US
       10:28:58 < scurecode> :Selling: Ebbey Login 15K nationwide 40K HSBC 50K And Scam Page All
                             Contery For sell with Letters Dump+Pin Track 1 Track 2 Look All PeoPle
                             Dont MSG for trade or For Share:) i want Just LR:) to Sell ALL OK?
10:27:1
       10:28:58 < scurecode> Scanner FOR SMTP-- Scanner For Root Scanner For Remote Desktop-RDP ITS
                             all Windows to USe i have AND Scanr Linux ROot and Win Root Scanner
10:27:1
                             Rapidshare Scanner C99 R57 Scanner Database Witch 1 Error you Connect
                             here Look All PeoPle Dont MSG for trade or For Share:) i want Just LR:)
                             to Sell ALL OK?
10:27:1
       10:28:58 < maggii> Script Php Mailer SMTP Orange.Fr Wanndo.Fr Optuss BigPond >>>>
       10:28:59 * DUMPS Selling dumps ( US , CA, FRance , SPAIN , Germany and some EU ) extracted
                 from hotel database ( on Sale )! .. ( Verified +v user here ! you will not lose your
                 money ... LOW LOW LOW PRICES ON BULK msg me now )
10:27:
10:27: 10:29:00 < TradeCC> w00t3d is selling CC/CVV fullz dob/ssn/PIN US,UK, Lot of fresh unspammed
                           email, msg w00t3d for more info
       10:29:00 < maqqii>
                           ShopAdmin USA Without cvv2 Uptime 3 Days 15 Orders day >>>>
       10:29:02 < maggii>
                           Fullz/USA Citi Bank Bank OF America >>>>
10:27:
       10:29:02 * Skimmer
10:27:2
       10:29:02 < TradeCC> MaStErBoY Is Selling AU Cvv2, Fulls , Paypal Accounts, SMTP, VNC ACCOUNTS
                           RDP ...
       10:29:04 * GODy Us\Uk\IT\Au\Ca => Cvv2 each 3$ - DUMPS SKIMMED AND GENERATED - SHOPADMINS -
                 PAYPALS VERIFIED ! I GIVE PERVIEWS PROOFS SCREENSHOTS !
       10:29:04 < maggii> RapidShare Account 300 Days >>>>
```



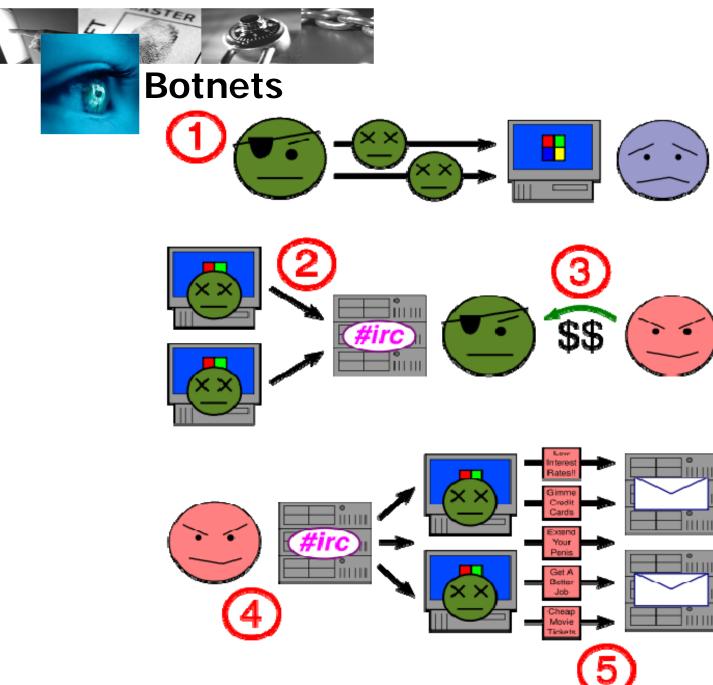
Software Robots

- Autonomous
- Command and Control
- IRC

Complex

- "Conficker" currently has estimated 9,000,000 hosts
 - Capable of 10 billion spam messages / day



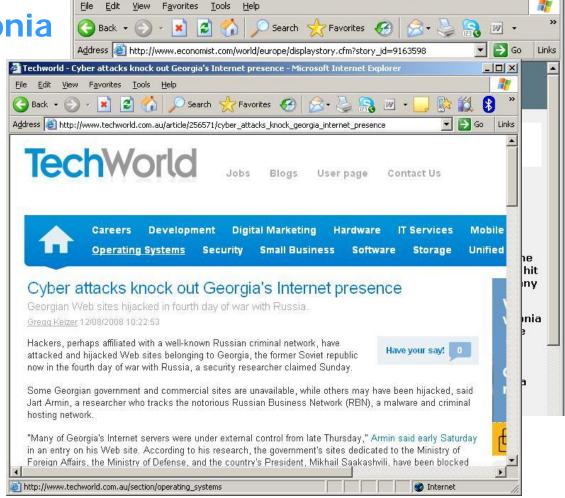




DDoS for Cyber Warfare

RBN v Estonia

RBN v Georgia



🎒 Estonia and Russia | A cyber-riot | Economist.com - Microsoft Internet Explorer



_ | X



"Insiders"

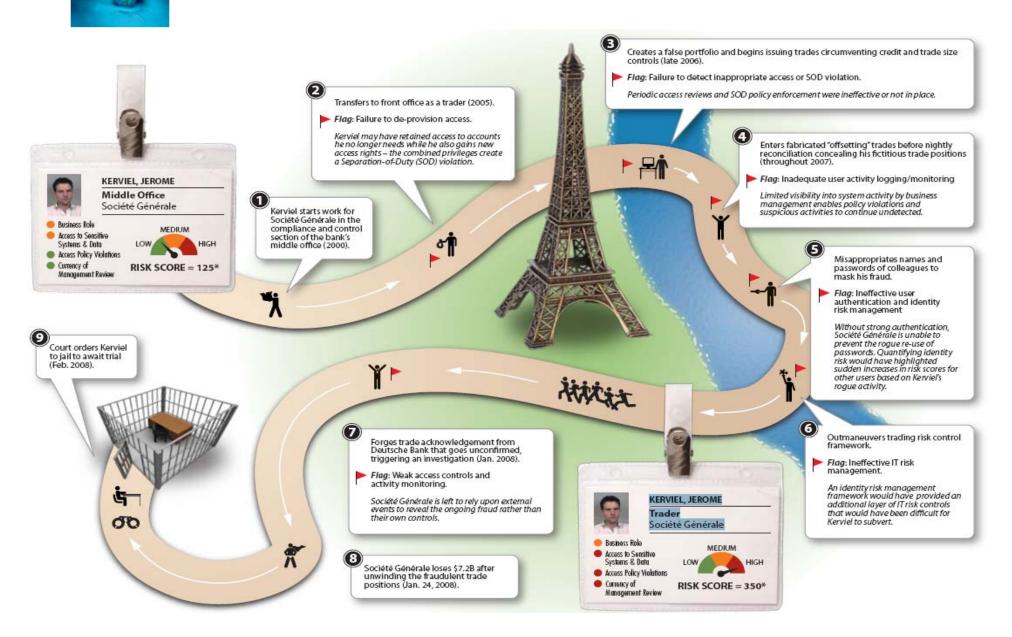
- Generally trusted
- Easy access to resources
- Know how the system works
- Understand data

Goals

- State / Military
- Economic
 - Trade Policy / Secrets
- Corporate
 - Acquire competitive advantage
 - Fraud



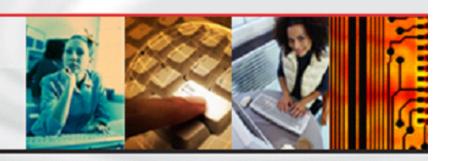
Rogue Trader - \$7.2 Billion Loss







Demo





Custom Enterprise Web Application

Enterprise Security API

Authenticator

User

AccessController

AccessReferenceMap

Validator

Encoder

HTTPUtilities

Encryptor

Encryptor

Encryptor

EncryptedProperties

Randomizer

Logger

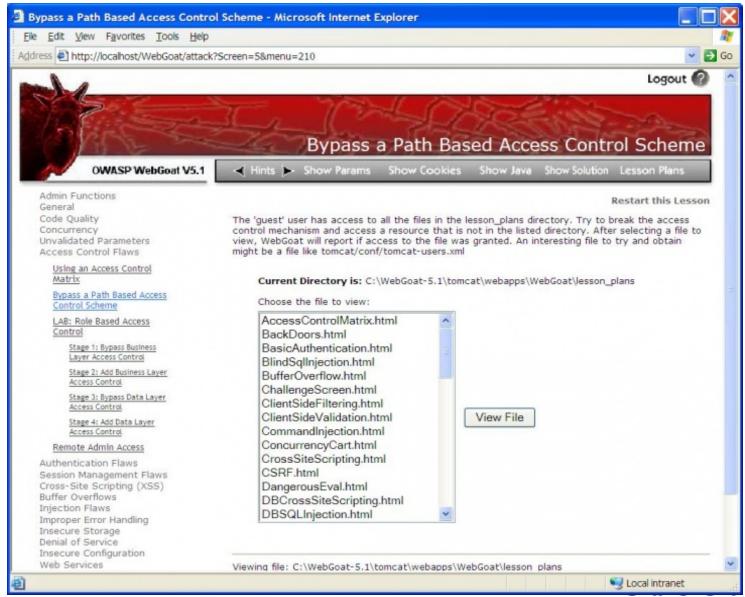
IntrusionDetector

SecurityConfiguration

Existing Enterprise Security Services/Libraries









- Hacking Challenges
 - http://www.hackthissite.org
 - http://www.dareyourmind.net
- Education / Tools
 - http://www.owasp.org







Q+A

