Alternatives in Analysis

# **Security Analytics Project**

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# Agenda

- High-level overview of the analysis techniques out there
- To help you get started with YOUR analysis and research by introducing you to existing tools
- Tip of the iceberg this will be FAST..

# **The Security Analytics**



## A Data-Centric World

- As security data collection tools continue to improve and evolve, the quantity of data that we collect increases exponentially
  - Honeypots and Honeynets
  - Malware Collectors
  - Honeyclients
  - Firewall
  - IDS/IPS
  - System/Network devices





### **The Aftermath**

After the cool tools what remains are tons and tons of data to sift through!





### The Value of Data

 Data is often only as valuable as what the analysis can shape it into.



### The Value of Data









# **Building our Arsenal**

Time to build up our arsenal of analysis

- Tools
- Techniques
- How? Where?



# **Looking Beyond Security**

 Though security in itself is a unique field with unique needs, analysis techniques often span the boundaries of different disciplines



# Looking Beyond Security



## **Our Analytics Arsenal**

#### Techniques

- Data and Text Mining
- Clustering
- Machine Learning
- Baselining
- Visualization
- Behavioral Analysis
- Game Theory



# **Data Analysis Tools**

- R-Project
- Weka
- Yale (RapidMine
- Tanagra
- FlowTag
- Honeysnap
- Excel and Access
- Orange

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# **The Possibilities**



#### **Preprocessing and Data Cleansing**

Creating a 'first-cut' for further analysis
 New Stuff! Honeysnap

- The Honeynet Project
- Arthur Clune, UK Honeynet Project

### What we're used to...

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# What it could be... (Honeysnap)

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# **Data and Text Mining**

- Data mining is the process of automatically searching large volumes of data for patterns
- Text mining is the process of deriving high quality information from text.
- Applications:
  - Forensic Analysis
  - Log analysis
  - IRC analysis
- Sample research:
  - Topical Analysis of IRC hacker chatter through text mining

#### What we're used to...

:D1ck :vo : J4n3 : i downloaded a fle from packetstorm :J4n3 :name was ALL-EXPLOITS-1999 :D1ck :vep? :J4n3:6 mbfle :J4n3 :ALL-EXPLOITS-199.tar.gz :J4n3 :ALL-EXPLOITS-1999.tar.gz :J4n3 :too many sploits in them :J4n3 : it made 10 folders :J4n3 :evey folder contain different sploits :D1ck :ok and? :J4n3 :i mean to say u also download it : J4n3! : yaar that synf bod is tight :J4n3!:u know some hackphreak guy took over deathace's nick 2 weeks ago :J4n3! :with his bot with ip \* :D1ck!:YEP :D1ck! :yep in know i dossed him 2 times :D1ck! :he is linuxs ka guy :D1ck!::)



# What it could be... (Word Vector)



# **Behavioral Analysis**

- Study of human behaviour
- Perfect for:
  - Analysis hacker behavior and motivation
- Sample research:
  - Study of hacker motivations through IRC hacker chatter

# Clustering

- Classification of objects into different groups, so that the data in each group (ideally) share some common trait
- Perfect for:
  - Classification of Attacks
  - Malware Taxonomy
  - Finding deviations from logs
- Sample application:
  - Classifying Attacks Using K-N

### What we're used to...

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File Edit Format Help #Software: Microsoft #Version: 1.0 #Date: 2001-08-25 00 #F1elds: date time ( 2001-08-25 00:21:13 2001-08-25 00:21:13 2001-08-25 00:21:17 2001-08-25 00:21:17 2001-08-25 00:21:17 2001-08-25 00:21:17 2001-08-25 00:21:18 2001-08-25 00:21:18 2001-08-25 00:21:34 2001-08-25 00:21:34 2001-08-25 00:21:36 2001-08-25 00:21:36 2001-08-25 00:21:36	Internet Ir 2:21:13 -1p cs-userr 127.0.0.1 - 127.0.0.1 -	formation s 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1	-port cs 80 GET / 80 GET /	-method c devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl devarticl	s-ur1- es/dev es/dev es/dev es/dev es/dev es/dev es/dev es/dev es/dev es/dev es/dev
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# What it could be... (YALE)





#### **Statistics**

- Pertains to the collection, analysis, interpretation or explanation, and presentation of data.
- Perfect for:
  - Executives love stats
  - Baselines

#### What we're used to...



# From Criminology (R-Project)



### What it could be...



# **Genetics and Immune Concepts**

- Applications:
  - Analyzing and defending against attacks
  - Imitate defenses of the human body
- Sample research:
  - Code Breaking using Genetic Algorithm
  - Genetic Algorithm Approach for Intrusion Detection



### **Economic Theories**

- Economics takes a lot from mathematics, statistics and other disciplines
- Perfect for:
  - All sorts of stuff
- Sample research:
  - Game Theory and Hacker Behaviour

# **Game Theory**



### Visualization

- Picture paints a thousand words
- Perfect for:
  - Attack detection and analysis
- New Stuff! FlowTag
  - Visual tagging
  - Chris Lee, Georgia Tech

### What we're used to...

* The Wireshark Network Analyzer								
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Filter:								
No Len Time Source Destination Protocol Info								
114 54 53.550000 207.183.142.87 204.252.103.16 TCP 1013 > 22 [FIN, ACK] Seq=3084 Ack=644	Win=							
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117 54 53.550000 207.183.142.87 204.252.103.16 TCP 1013 > 22 [ACK] Seq=3085 ACK=645 Win=	32256							
118 342 53.920000 204.252.105.79 255.255.255.255 BOOLP [Packet size limited during capture]								
119 189 54.250000 00:20:af:92:d4:5f 03:00:00:00:00:00:01 SMB [Packet size limited during capture]								
121 60 54.650000 08:00:4e:08:5d:56 01:80:c2:00:000 STP Conf. Root = 65535/08:00:4e:08:5d:56	Cost							
122 60 54.710000 207.183.142.87 204.252.102.2 POP Request: STAT								
123 66 54.710000 204.252.102.2 207.183.142.87 POP Response: +0K 2 3467								
124 60 54 710000 207 102 142 07 204 252 102 2 DOD Doguet+ LTST								
Frame 122 (60 bytes on wire, 60 bytes captured)	Ĥ							
Ethernet II, Src: 00:c0:4f:c7:eb:c0 (00:c0:4f:c7:eb:c0), Dst: 00:00:0c:36:00:19 (00:00:0c:36:00:19)								
Internet Protocol, Src: 207.183.142.87 (207.183.142.87), Dst: 204.252.102.2 (204.252.102.2)								
Transmission Control Protocol, Src Port: 22587 (22587), Dst Port: 110 (110), Seq: 29, Ack: 134, Len: 6								
Source port: 22587 (22587)								
Destination port: 110 (110)								
Sequence number: 29 (relative sequence number)								
[Next sequence number: 35 (relative sequence number)]								
Acknowledgement number: 134 (relative ack number)								
Header length: 20 bytes								
Flags: 0x0018 (PSH, ACK)								
0000 00 00 00 36 00 19 00 co 41 c/ eb co 08 00 45 006 0E.								
0020 60 22 83 00 40 00 40 00 54 00 c1 07 00 57 CC 1.1.0,0,0,4.1.0,0,0								
0030 7d 78 3d cc 00 00 53 54 41 54 0d 0a }x=5T AT								
Sequence number (tcp.seq), 4 bytes P: 3632 D: 3632 M: 0								

# What it could be... (FlowTag)

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### Conclusion

- High level overview of analysis tools and techiniqes
- Made you aware that there are a lot of things to use out there
- To produce good results techniques and tools could be used together

### **A Collaborative Effort**

- A forum where people from different fields can share data and techniques
- Diversity is the Key! Everyone is welcome!
- Feel free to talk to me more about this stuff at: ryan@secure-dna.com

# **Thank You**



# **Machine Learning**

- Machine learning is concerned with the design and development of algorithms and techniques that allow computers to "learn"
- Useful for:
  - Predicting Attacks
  - Self-learning IDS
- Sample research:
  - Predicting attacks using Supp Machines

# **Predicting Attacks**

Form1		
Form1           (DATE[timestamp]]           5/25/2006           5/25/2006           5/26/2006           5/28/2006           5/28/2006           5/29/2006           10.1.0.1           6/2006 8.58.13           10.1.0.1           6/2006 8.58.13           10.1.0.16           6/2006 8.58.13           10.1.0.17           6/2006 8.58.15           10.1.0.27           6/2006 8.58.15           10.1.0.27           6/2006 8.54.06           10.1.0.30           6/2006 5.40.06           10.1.0.34           6/2006 5.40.06           10.1.0.37           6/2006 2.58.01 ↓           10.1.0.36           6/2006 2.58.01 ↓           10.1.0.37           6/2006 2.58.01 ↓           10.1.0.34           6/2006 2.58.01 ↓           10.1.0.37           6/2006 2.58.01 ↓           10.1.0.34           6/2006 2.58.01 ↓           10.1.0.37           6/2006 2.58.01 ↓	Honeynet Intrusion Pattern Analyzer (HIP/ Ryan Talabis Ateneo de Manila University      Sig_name     WEB-fRONTPAGE     WEB-FRONTPAGE     WEB-FRONTPAGE     WEB-FRONTPAGE     WEB-FRONTPAGE     SHELLCODE x86 Nt     EXPLOIT WINS ove     ICMP PING NMAP     SNMP public access     SNMP public acces	A) v 0.1 Refresh
timestamp sig_name i /2006 12:41:44 AM IP Packet detected /2006 12:41:44 AM SHELLCODE x86 N( /2006 12:41:45 AM EXPLOIT WINS ove /2006 12:41:45 AM EXPLOIT WINS ove /2006 12:41:45 AM EXPLOIT WINS ove /2006 12:41:45 AM IP Packet detected /2006 12:41:45 AM IP Packet detected	Inst         inet         ntoalip         dsl         ip         ver         ip         hen         ip         tosl         ip         loss         and         an	ALL Number of Events: 233 TIME Attack Start: 5/26/2006 12:41:02 AM Attack Stor: 5/26/2006 12:42:10 AM Total Duration: 68.000 sec Avg time between top 20142 events: 0.540 sec Avg time between top port 80 events: 0.075 sec RELATED PORTS top: 42(126) 80(106) udp: SIGNATURES (http_inspect) 0XERSIZE REQUEST-URI DIRECTORY (1) EXPLOIT WINS overflow attempt (9) SHELLCODE x86 NOOP (84) WEB-RIONTPAGE rad (p30reg.dll access (2) WEB-RIONTPAGE rad (p30reg.dll access (2) WEB-MISC ChurkedEncoding transfer attempt (2) WEB-MISC ChurkedEncoding transfer attempt (2) WEB-MISC WebDAV search access (1) PROTOCOL
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