

Technology Services @ Hewlett-Packard Slovakia

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Agenda

Robert McNamara "body count"

Big Data – zber údajov a bezpečnosť

HP HAVEn

HP ArcSight – HP Autonomy v akcii



Robert McNamara

World War 2

Saving 3,6bl \$\$ in procurement by data-driven decision making / 1943



fellow could walk on water

Vietnam War

Measurement of progress - "body count" data point





Robert McNamara – after 70 years

Education problem?

Push standardized tests to measure performance and penalize teachers or schools



Buy an app to count every calorie but eschew actual exercise

Want to prevent terrorism?

Create layers of watch lists and no-fly lists in order to police the skies

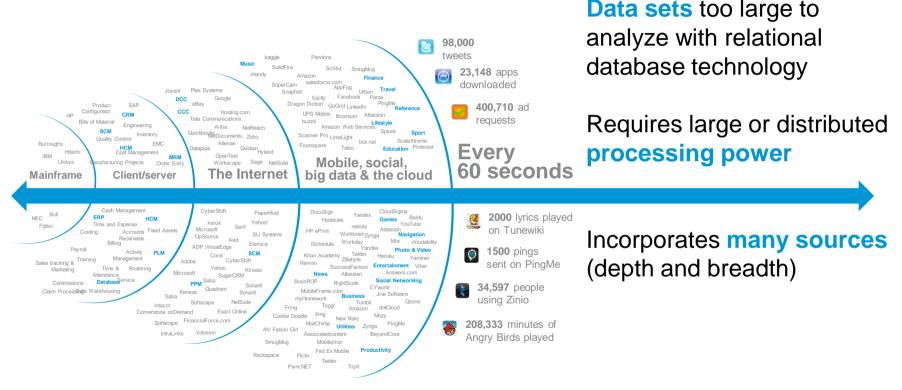
GOOGLE way

best color of a toolbar on the website – staff ordered to tes 41 gradiations of blue of the blue of th





What is big data?





Applying big data to security challenges

Incorporate Unstructured data

Enhance security monitoring to develop improved intelligence capability

Use Cases

Email monitoring, social network monitoring, behavioral analysis

Security Operations

Leverage big data analytics for investigation, research, and real-time alerting





Information security challenges

Primary Challenges

1

Nature & Motivation of Attacks
(Fame → fortune, market adversary)

A new market adversary A new market adversary Capture Exfiltration



Information security challenges

Primary Challenges

1

Nature & Motivation of Attacks (Fame → fortune, market adversary)

Delivery

Traditional



Private





2

Transformation of Enterprise In (Delivery and consumption changes)

Virtual Desktops



Consumption

Notebook



Tablets







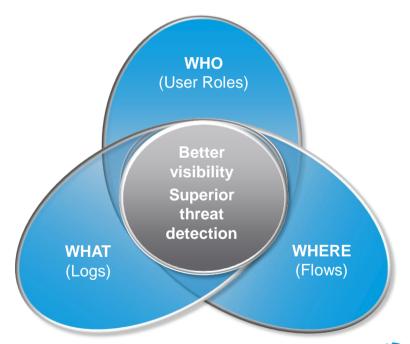
Information security challenges

Primary Challenges

Nature & Motivation of Attacks
(Fame → fortune, market adversary)

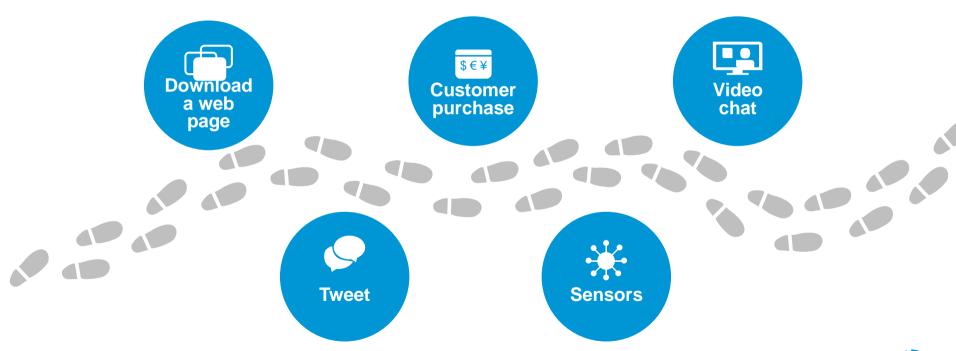
Transformation of Enterprise In (Delivery and consumption changes)

Intelligence-driven models are necessary



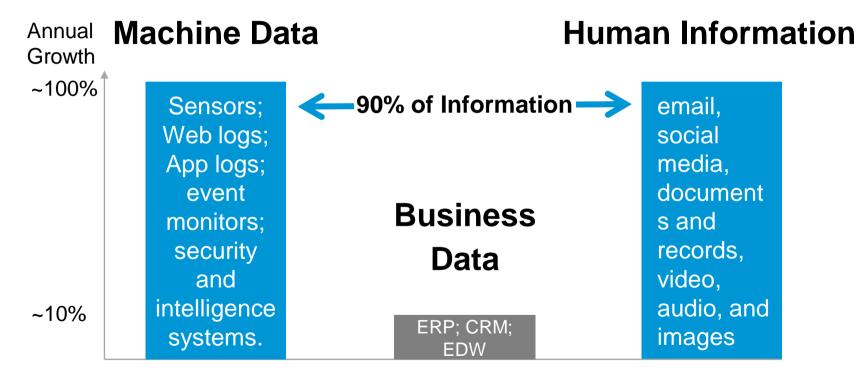


"You're already a walking sensor platform" – **CIA CTO**





Big Data landscape





HP HAVEn



Big Data needs a unified approach

One platform for structured, semi, and unstructured to profit from 100% of data.

Enable me to:

on

100% of Data

- Capture
- Store
- Manage
- Analyze
- Optimize

Structured warehouses

CRM, transactions, sales, marketing...

Universal log management

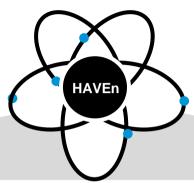
IT logs, security logs, social, tweets, JSOn's

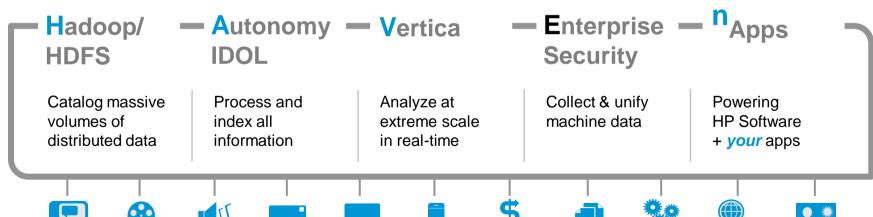
Unstructured

Audio, Video, emails, sentiments, threat ...



HAVEn – Big Data Platform





Mobile

Transactional

data

Documents

IT/OT

Images

Search engine

Social media

Video

Audio

Texts

Email

HP ArcSight ESM and Autonomy IDOL

Unstructured data



- Email, files
- Social Media, Chat Sessions
- Websites, Audio/Video

Structured data

- Security Devices (FW, IDS, etc.)
- Identity & Access Management
- Applications

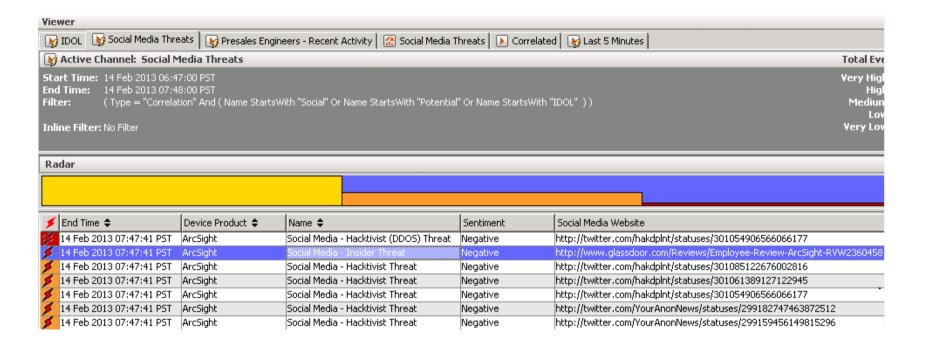




HP ArcSight ESM & Autonomy IDOL in action



Social media monitoring for insider threats





Social media monitoring for insider threats

Kobalt Systems not what it used to be"

★★★★★ Current Presales Engineer in Washington, DC – Reviewed Feb 11, 2013

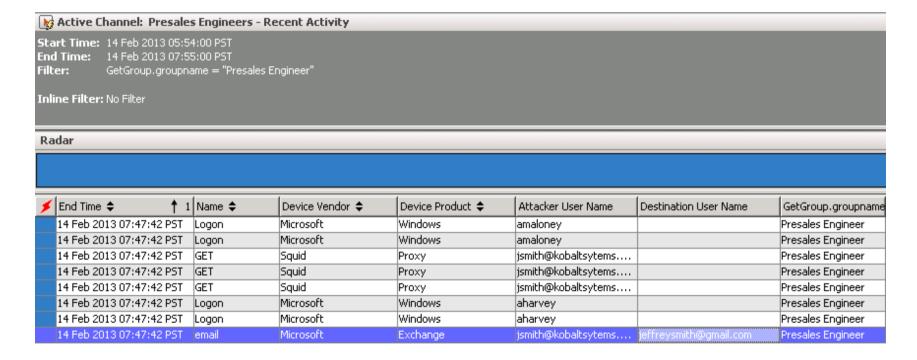
Pros – The company is full of smart people and excellent technology. The benefits are very good and so are the perks (snacks, drinks, happy hour, etc.).

Cons – Excessively political. The ability to get something completed is based on who you know in the company. The training program is inadequate to successfully prepare one to be successful. I'm a presales engineer in the east and have been neglected by my management. I am strongly considering working for a competitor.

Advice to Senior Management – Focus more on people development and less on politics. Too often people are promoted based on personal relationships and not industry expertise.

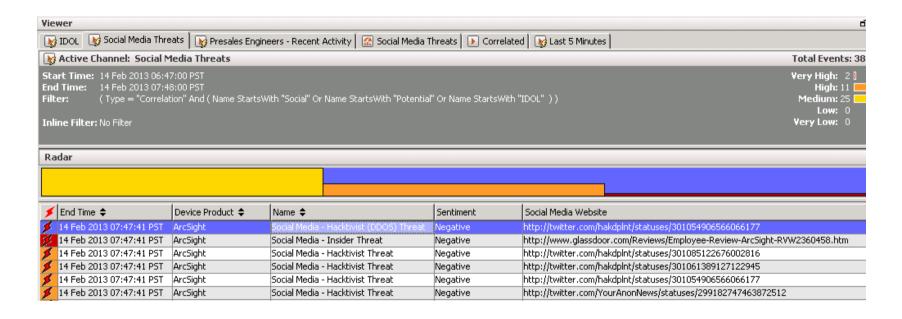


Social media monitoring for insider threats





Social media monitoring for hacktivist threats





Social media monitoring for hacktivist threats





Kobalt Systems is infringing upon their employees' rights by monitoring every action on the network. We should teach them a lesson: DDOS







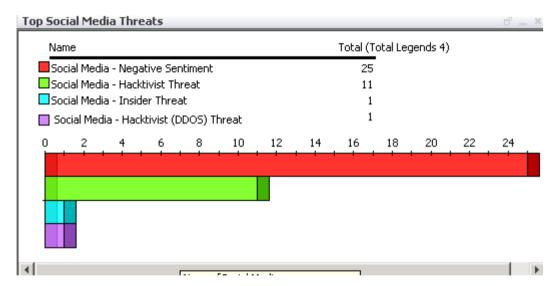
Found a JS/iframeref vulnerable server at 10.10.10.120





Social media monitoring for hacktivist threats







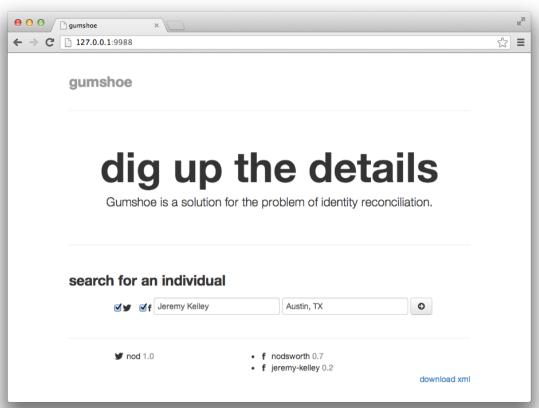
Social Identity Reconciliation

Gumshoe

How do you know that John Doe is really @jdoe?

Finds social profiles via simple heuristics.

Can easily be extended to further refine results.





Just a bit more...



We're just getting started.

Google self-driving cars ~1Gb/s per vehicle

Jet turbines generate ~12 exabytes a day on commercial flights

7 billion people with Nike+, fitbit, Google Glass and the next thing...



Impact to Enterprise Security?

More data constantly generated.

More data to monitor.

More sources to monitor.

More Noise. More Work.

More signal to analyze.



Ďakujem za pozornosť

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