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FEBRUARY 24 - 28 | MOSCONE CENTER | SAN FRANCISCO



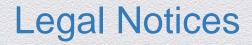
Capitalizing on Collective Intelligence

Security Business Intelligence– Big Data for Faster Detection/Response

SESSION ID: STU-R02B

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A taste....







Agenda

- History & Philosophy
- Architecture
- Big Data
- Fast Detection Use Cases
- Challenges & Next Steps







Perspective



Former employee pleads guilty to stealing Intel documents April 9, 2012 Former Intel engineer Biswamohan Pani pleaded guilty Friday in U.S. Federal Court in Massachusetts to stealing Intel chip manufacturing and design documents shortly before he went to work for AMD in 2008.





Purpose

Provide a set of detective controls and decision support systems to help balance the gaps in our preventative controls and enable new security controls to minimize the increasing risk to the enterprise.

Types Of Cyber Events Analyzed

- Brute Force Login Attempts
- Identity And Personal Data Theft
- Denial Of Service Attacks
- Malicious Proxy Activity
- Server Anomalies
- Endpoint Malware Detection







Evolving from focusing on individual SBI use cases to focusing on entire SBI system, data lifecycle and governance model

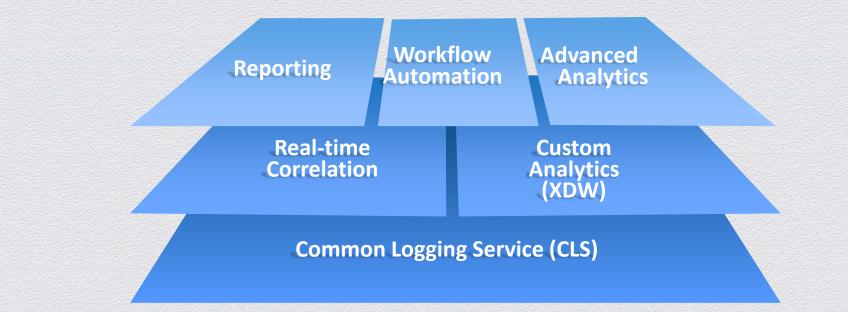
- Established privacy controls framework that defined common requirements for system components and data sources
- Privacy plans established for specific use cases and SBI data sources
- Use limited to Cyber Security Threat Management & Incident Response
- New use cases and access must be approved by CSO/CPO and Chief Privacy & Security Legal Counsel
- Developing a tiered privacy control framework as SBI evolves







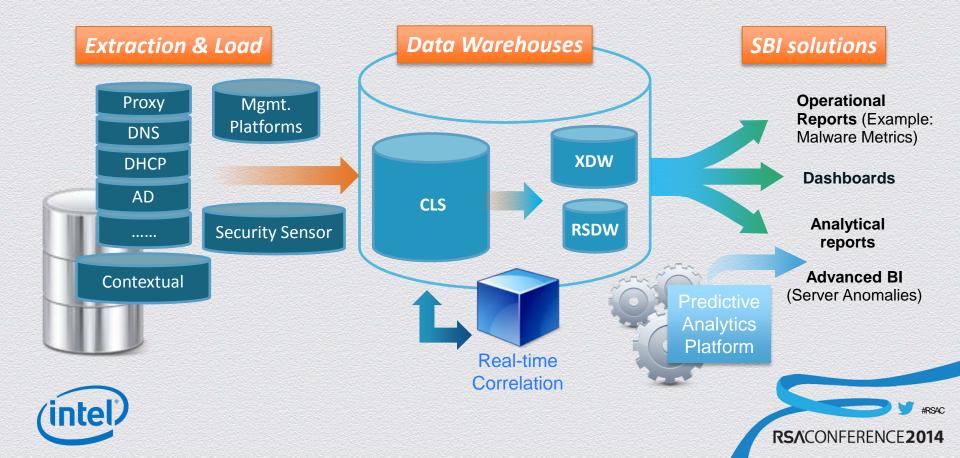
SBI Capability Stack



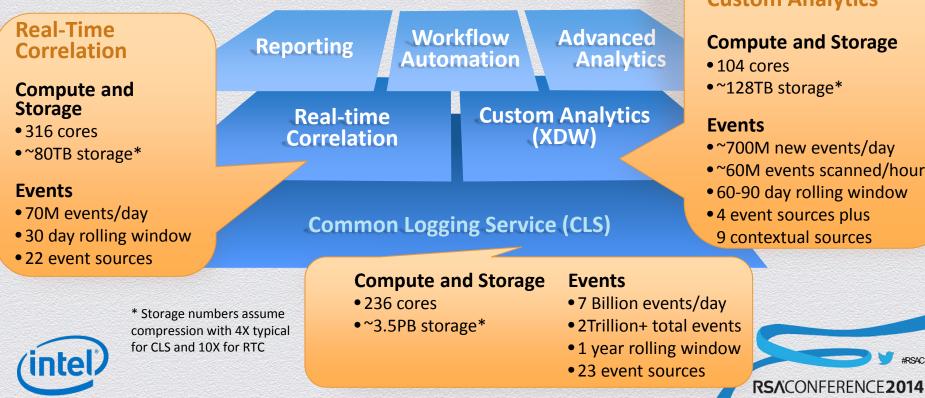




SBI Suite of Capabilities



SBI 2013 Core Capability by the Numbers



XDW/ **Custom Analytics**

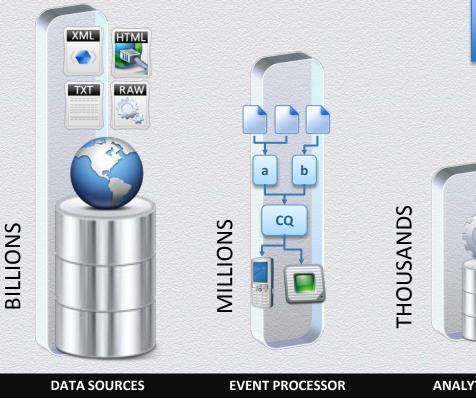
Compute and Storage

- 104 cores
- ~128TB storage*
- ~700M new events/day
- ~60M events scanned/hour

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- 60-90 day rolling window
- 4 event sources plus
- 9 contextual sources

Scaling for Big Data



Distilling large volumes of events to focus on the actionable items

HUNDREDS

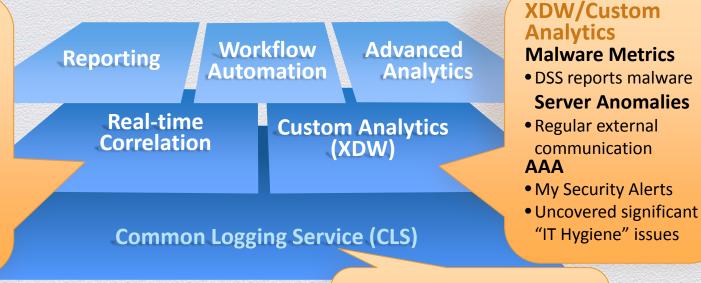




SBI Value



- Access Protection/ AV
- Proxy: Malicious Sources
- Proxy: Outbound Data/Botnets
- OSINT



(intel)

External Presence, Internal Cloud, Authentication, Connectivity, Brute Force Login, Elevated privilege logins, Identity Theft, DoS, Server Anomaly, DNS and DomainFlux connections, Endpoint Malware Detection

Response

- 99% TPT reduction
- 1 Tool, 1 Process
- C2 IOC match <5 Minutes

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Fact Table/Order 1 Search
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Security BI Risks & Challenges

- Privacy more data at risk
- Potential mining of the data for IP theft or harm
- Big data requires new big data tools
- Big data can slow forensics
- As devices get smaller more data pushed to the cloud







Next Steps

- My Security Alerts
- Database Activity Monitor
- Comprehensive Coverage
- Rapid Response





Getting Started

- Start small
- Start focused
- Grow value based on design goals
- Build a team

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Every organization has a different risk posture, all organizations require customized analysis.



Resources

NO SECURITY

LOW SECURITY

MID SECURITY

HIGH SECURITY Information Security Protect to Enable Strategy video

CRET

Rethinking Information Security to Improve **Business Agility**

Executive Overview

Use of this approach has already helped us deliver innovative solutions to challenging use cases while actually reducing risk.

WHITE PAPER **Privacy Principles**

January 2014

To enable rapid adoption of new technologies and usage models-and provide protection in an evolving threat landscape—Intel IT has embarked on a radical five-year redesign of Intel's information security architecture.

We believe this architecture, designed to support key initiatives such as IT consumerization and cloud computing. represents a novel approach to enterprise security. It provides more flexible, dynamic,

containing less-valuable data and allowing broader access. Communication between zones is controlled and monitored: if one zone is compromised, this prevents the problem from spreading to other zones.

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Look Inside

Fast Threat Detection with Big Data Security Business Intelligence

- To reduce risk, IT must rapidly correlate event log data
- We are able to selectively monitor 1.5 billion directory service events per day
- Our new solution enables. large-scale log management and custom analytics

Intel IT's new Security Business Intelligence (BI) platform incorp common logging service (CLS), real-time correlation engine, analytics platforms to deliver faster detection and response to ability to implement custom analytics solutions enables our sec distill specific event logs from over 6 billion events recorded dai improved compliance, better protection of high-risk assets, and response to advanced persistent threats.

After operating a near-real-time correlation engine on smaller dat we saw the need for a comprehensive log management solut

Applying Privacy Principles in a Rapidly Changing World

As new technology and data uses strain traditional privacy guidance. Intel recognizes the enduring value of this guidance and seeks ways to implement recognized privacy principles flexibly and effectively.

Learn more about Intel IT's initiatives at: www.intel.com/IT

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