@Hitachi Data Systems





Agenda





One (of many) data leak examples



A database leak in Mesa County,
Colorado has left the personal
information of 200,000 people in
jeopardy. And not just any 200,000
people—these are suspects, victims,
and informants working with the sheriff's
department to out other criminals.

- ars technica

What happened?

- Employee copied info from DB in the form of a giant text file, assuming that the target server was secure
 - It was not secure
- File contained names, phone numbers, addresses, and Social Security numbers of numerous individuals associated with criminal investigations
- Google's Web crawler indexed the data

Outcome

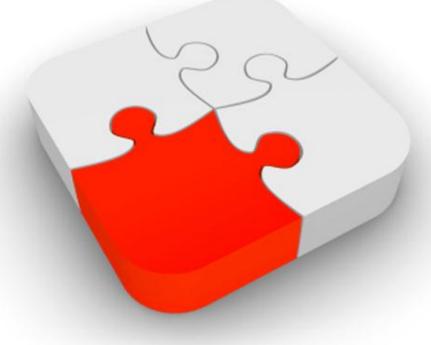
- Sheriffs office and FBI had to determine who could be in jeopardy
- "[W]e're talking about people's personal safety," Sheriff Stan Hilkey told the AP.

Data Leaks – Needle in a Haystack?



From a recent Data Leakage survey:

- 39% of IT professionals worldwide were more concerned about the threat from their own employees than the threat from outside hackers
- 20% of IT professionals said disgruntled employees were their biggest concern in the insider threat arena



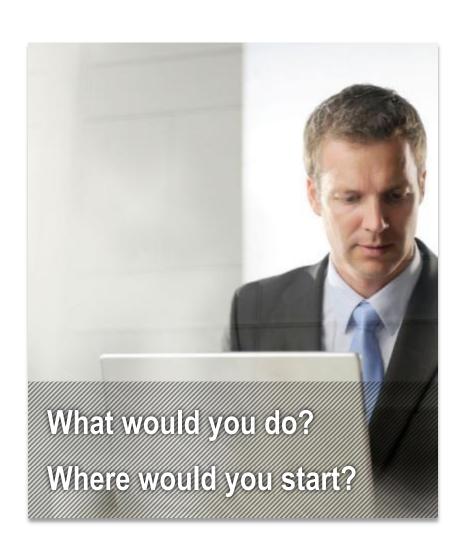
Top concerns among IT Pros regarding data leakage:

- USB devices (33% of responses)
- 2) Email (25% of responses)

Data Leak Mystery



- You are the IT Manager at a small, publically listed company called NBI Inc.
 - The CFO storms into your office and tells you that
 @insidetrader just tweeted "NBI Q3 Net Income Per Share = \$1.14"
 - The information is accurate
 - He demands you help him find the leak



First Steps



- You read @insidetrader's
 Tweet history and find
 that NBI has not
 previously been
 mentioned
- The company is small and you don't believe @insidetrader is an employee

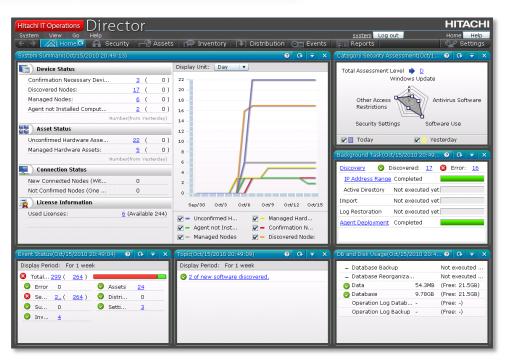
If all else fails: Open a brokerage account and start following @insidetrader on Twitter?

Could you solve this mystery with your current tools? What is your next step?

The Right Tool



Phitachi IT Operations
Director allows you to
audit the flow of
information in your IT
environment at a file
level

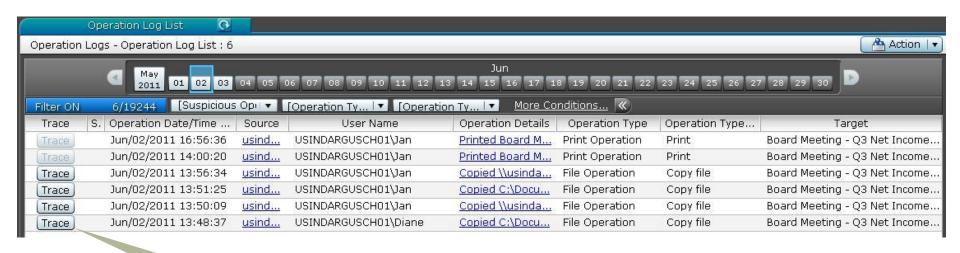


- You begin be asking the CFO for the names of relevant files that include the Q3 Net Income numbers
 - Board Meeting Q3 Net Income.ppt
 - Oracle_export_Q3_raw.xls

Find the Data Leak



- Investigate from the beginning
 - Check Director's Operation Log for the file called "Board Meeting - Q3 Net Income.ppt"

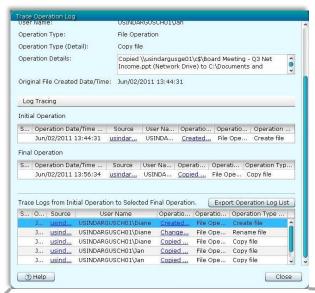


Click "Trace" to see audit trail

Find the Data Leak – Trace File Operations (ITROA)



Follow the flow of information using the Trace feature

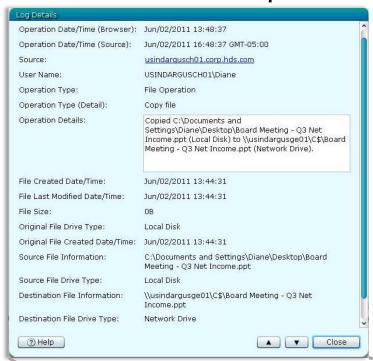


S	0	Source	User Name	Operatio	Operatio	Operation Type	
	1	usind	USINDARGUSCH01\Diane	Created	File Ope	Create file	1
	J	usind	USINDARGUSCH01\Diane	Change	File Ope	Rename file	ı
	3	usind	USINDARGUSCH01\Diane	Copied	File Ope	Copy file	1
	J	usind	USINDARGUSCH01\Jan	Copied	File Ope	Copy file	k
	J	usind	USINDARGUSCH01\Jan	Copied	File Ope	Copy file	

Find the Data Leak – View Details



View details of each file operation



Source File Information: C:\Documents and Settings\Diane\Desktop\Board

Meeting - Q3 Net Income.ppt

Source File Drive Type: Local Disk

Destination File Information: \usindargusge01\C\$\Board Meeting - Q3 Net

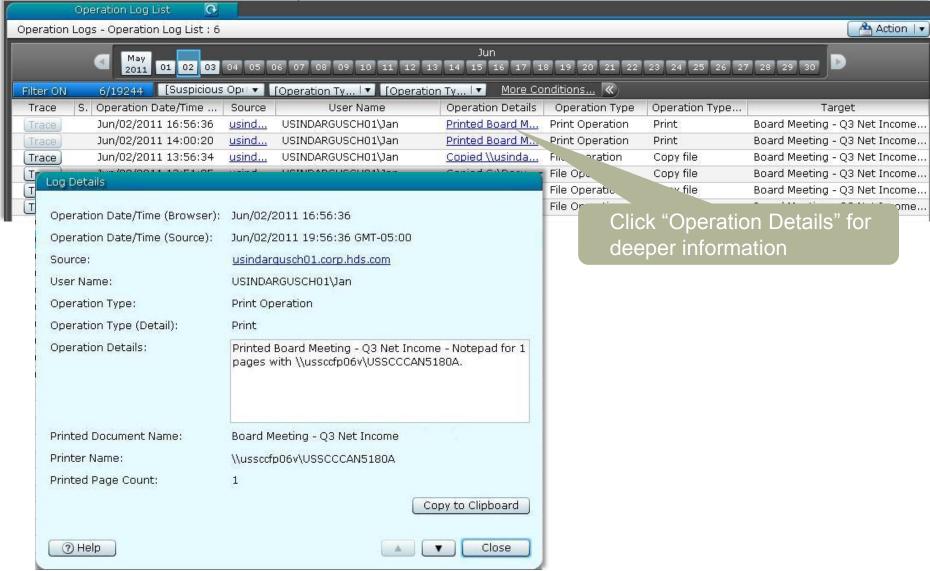
Income.ppt

Destination File Drive Type: Network Drive

Find the Data Leak – View Details



View details of the Print operation



Find the Data Leak – Where's Jan?



- After tracing operations on "Board Meeting Q3 Net Income.ppt"
 - Try calling Jan at desk
 - VM message says she is traveling to London this week
- Finally Reach Jan in the UK and ask about copies of presentation
 - She has one set with her at the hotel
 - Realizes she left the second copy at Logan Airport while waiting for her flight
- Mystery solved

Summary



- Insider threat is not just the rogue employee
- Data leakage often results from risky behavior by employees who are unaware that their actions are unsafe
 - Some of this problem can be attributed to a lack of corporate policy or inadequate communication of corporate policies to employees.

IT must first be able to track the flow information and find rogue data copies

Beyond tracking flow of information, IT must begin to safeguard against leaks



Why hitachi?





- 10th largest software company in the world*
- Experienced in storage management and systems management software
- Leveraging that experience to
 - Increase channel-driven business
 - Expand opportunities from enterprise into medium sized businesses

*Source: Software Magazine

What is IT Operations Director?



Hitachi IT Operations Director is an integrated solution focused on key IT infrastructure management functions - Security Management, Asset Management, and Software

Distribution.

Monitor software licenses compliance and install/un-install in case of compliance violation.

Assets

Simple asset registration for USB memory.

Only allow the use of registered USB memory devices

By combining key functions all in one product, each will integrate with the other to provide a powerful solution in managing the client/desktop environment

Software
Distribution Security

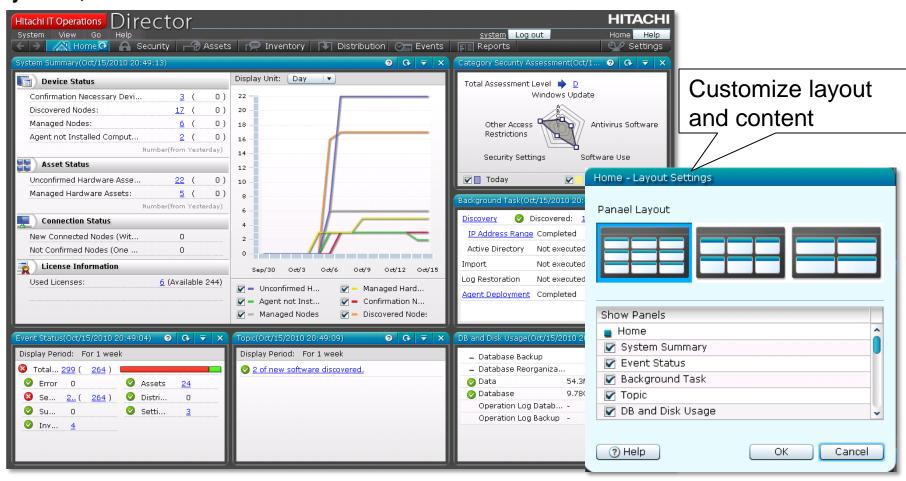
Comprehensive dashboard and daily/weekly/monthly report.

Automatically install software and uninstall in cases where software violates the security policy.

Web-based console



Easy-to-use, intuitive interface.



Security Module - Policy Management



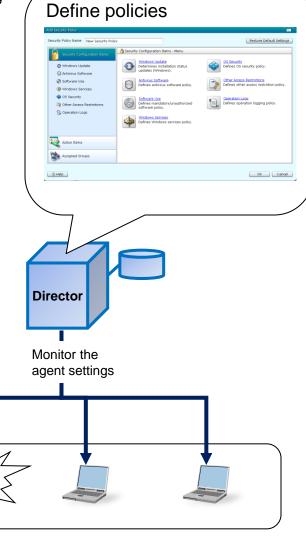
- Provides ability to define policies based on Device Type, organization, location, network segment.
- Policies include
 - Defining mandatory software
 - Prohibited software
 - Windows update and patch apply status
 - OS security and Firewall settings
 - Antivirus software status
 - Running Services
 - Control to Printers
 - External media access (USB ports, SD Memory Cards...)

Detect an error in case

Desktop

of policy violation

Policy can trigger software and patch distribution



Distribution Module



- Distribution of software packages
 - Executables (MSI, EXE)
 - Scripts based (BAT)
 - Compressed packages (ZIP)
- Can be distributed on defined schedule.
 (Immediately, Midnight, Morning specified date etc.)

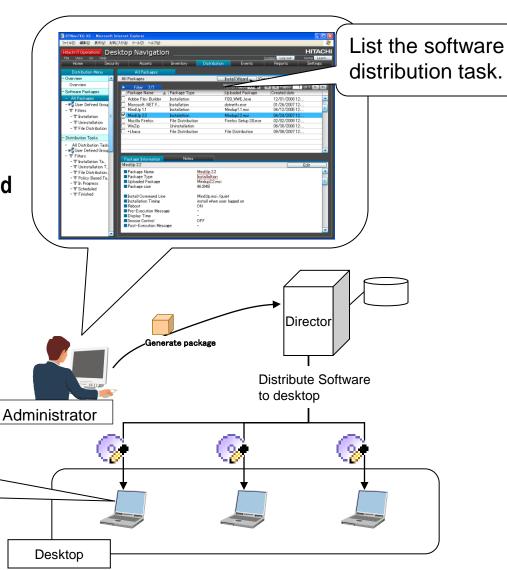
KG is going to start install "Mindup software" within below time

OK

Count down time: 120 sec

Defer install 1 hour later | **

 Can be distributed on Security Policy triggers

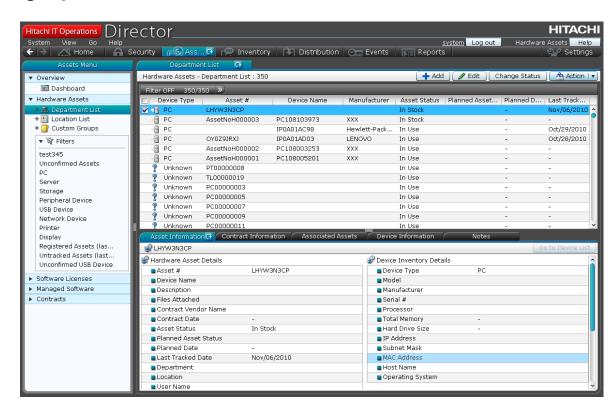


Shows a pop-up before distributing the software.

Assets Module



- Asset Module manages following topics.
 - Hardware Assets
 - Server
 - Desktop
 - Storage
 - Switch
 - Any other Assets
 - Software License Assets
 - Asset Contract



Assets Module - Track Asset Costs



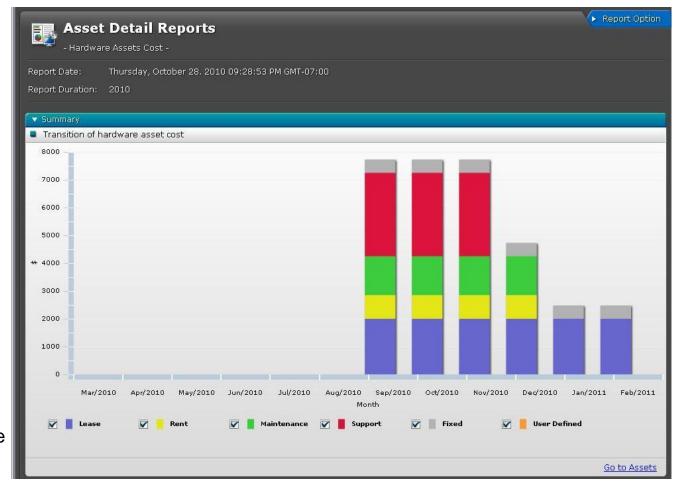
- Contracts contain information about:
 - Vendor
 - Term
 - Cost Structure
 - Lease
 - Rent
 - Maintenance
 - Support
 - Fixed
 - Payment schedule

Report on:

- Trend analysis of hardware and software asset costs
- Cost structure breakdown
- Software license compliance

Can be associated with multiple assets

Hardware devices Software licenses



Reporting



Reports for Security, Assets, Software Distribution and summary for all modules.





Questions and discussion



Thank you

Sources



Colorado Sheriff Data Leak:

 http://arstechnica.com/security/news/2010/12/informantssuspects-outed-in-accidental-database-leak.ars

Data Leak stats:

- http://www.cisco.com/en/US/solutions/collateral/ns170/ns89
 6/ns895/white_paper_c11-506224.html
- http://www.cisco.com/en/US/solutions/collateral/ns170/ns89 6/ns895/white_paper_c11-506224.pdf