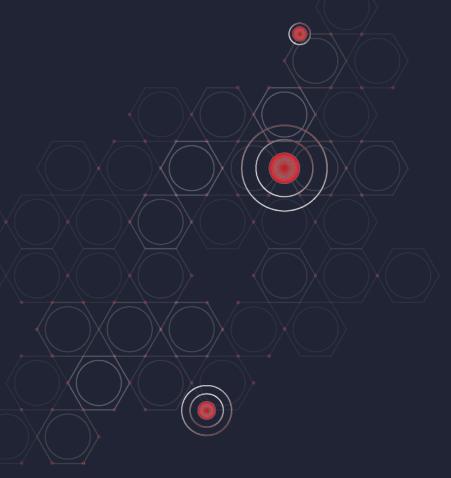


Our mission is to protect data from insider threats and cyberattacks.



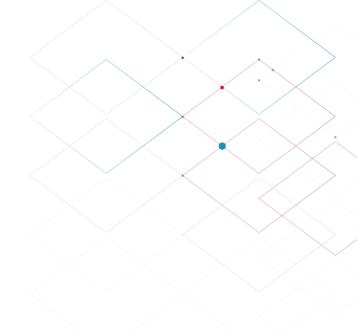
The Enemy Within

Understanding Insider Threats



Agenda

- A few thoughts on ransomware
- Examples of insider threats
- Mitigating insider threats

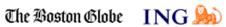




About Me

- Ben Hui
- Manager Solution Architects
- www.varonis.com





















What I know about Ikoyi house where EFCC found over N13 billion – Former PDP Chairman

April 14, 2017 Samuel Ogundipe



N13Billion Ikoyi money

A former chairman of the People's Democratic Party, Adamu Mu'azu on Friday explained his connection to the Lagos property where the anti-graft EFCC found over N13 billion hidden in an . VARONIS apartment.







But what's a hospital's data actually worth?







SCHEDULE 5 PROGRAM: NONCONTRACT

SCHEDULE OF MEDI-CAL ANCILLARY COSTS

Provider Name:

HOLLYWOOD PRESBYTERIAN MEDICAL CENTER

DECEMBER 31, 2012

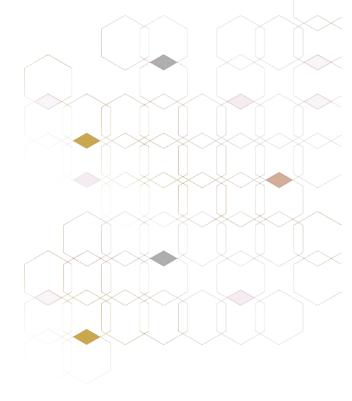
Fiscal Period Ended:

Provider NPI: 1922033547

	TOTAL ANCILLARY COST *	TOTAL ANCILLARY CHARGES (Adj)	RATIO COST TO CHARGES	MEDI-CAL CHARGES (From Schedule 6)	MEDI-CAL COST
ANCILLARY COST CENTERS					
50.00 Operating Room	\$ 9,028,033	\$ 52,526,135	0.171877	\$ 0	
51.00 Recovery Room	2,320,630	38,463,066	0.060334	0	
52.00 Labor Room and Delivery Room	10,690,393	19,893,113	0.537392	0	
53.00 Anesthesiology	102,463	8,983,402	0.011406	0	
54.00 Radiology-Diagnostic	4,238,445	23,400,390	0.181127	21,248	3,84
55.00 Radiology-Therapeutic	3,758,828	24,879,197	0.151083	0	
56.00 Radioisotope	1,580,397	4,672,251	0.338252	200	6
57.00 CT Scan	1,679,398	41,541,854	0.040427	0	
58.00 Magnetic Resonance Imaging (MRI)	1,002,291	11,215,016	0.089370	0	
59.00 Cardiac Catheterization	2,271,938	17,755,163	0.127959	0	
60.00 Laboratory	10,315,623	54,670,364	0.188688	75,110	14,17
61.00 PBP Clinical Laboratory Services-Program Only	0	0		0	
62.00 Whole Blood & Packed Red Blood Cells	0	0		0	
63.00 Blood Storing, Processing, & Transfusion	1,798,944	3,328,273	0.540504	0	
64.00 Intravenous Therapy	0	0		0	
65.00 Respiratory Therapy	10,473,538	146,614,591	0.071436	0.7	AROITIS
66.00 Physical Therapy	3,660,298	13,750,674	0.266190	59,810	15,92
67 00 Occupational Thorany	147.000	0.040.045	0.024290	10.407	20

66

I am seeing around 4,000 new infections per hour, or approximately 100,000 new infections per day.



- Kevin Beaumont, Malware Analyst

Why is Ransomware so dangerous when it becomes an insider?



Insiders have a lot of access

of end users say they have access to company data they probably shouldn't see

of IT respondents say their companies fully enforce a strict least privilege model





Very few watch what insiders are doing

of organizations have no searchable records of file system activity

do not monitor any file and email activity.

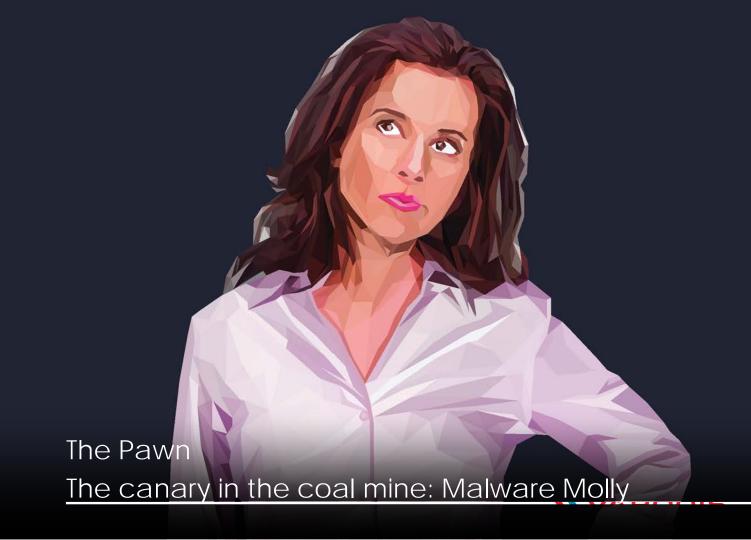


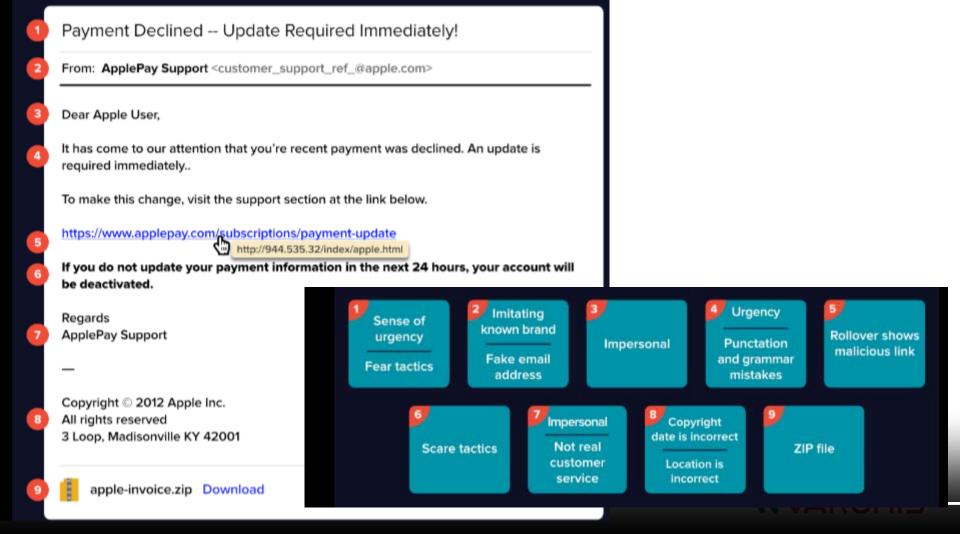


Insiders are beyond the perimeter security





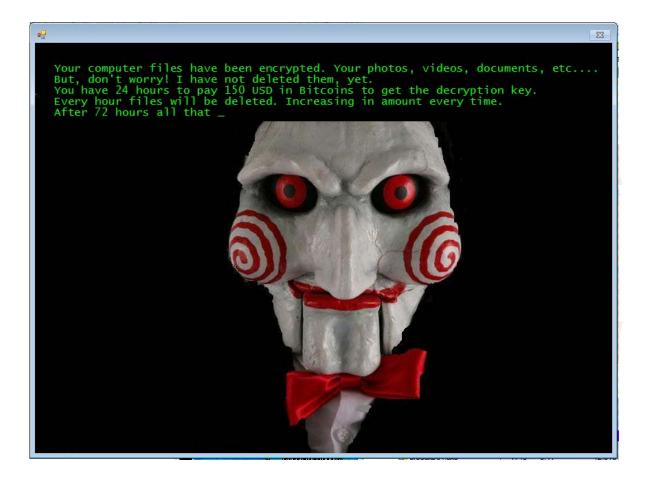










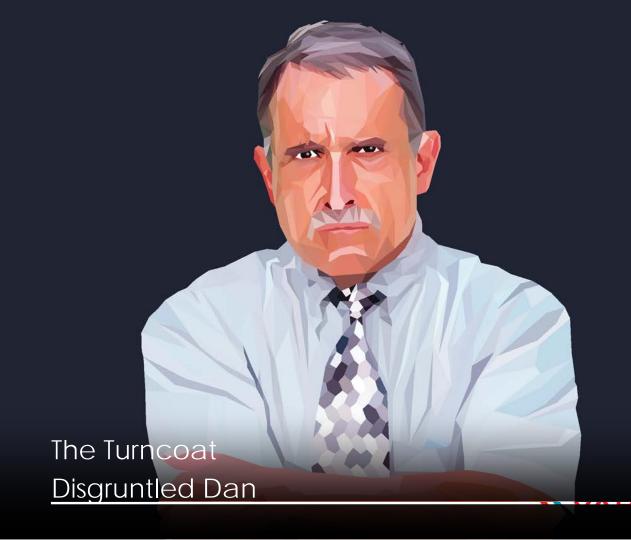








Let's Meet The Other Insider Threats

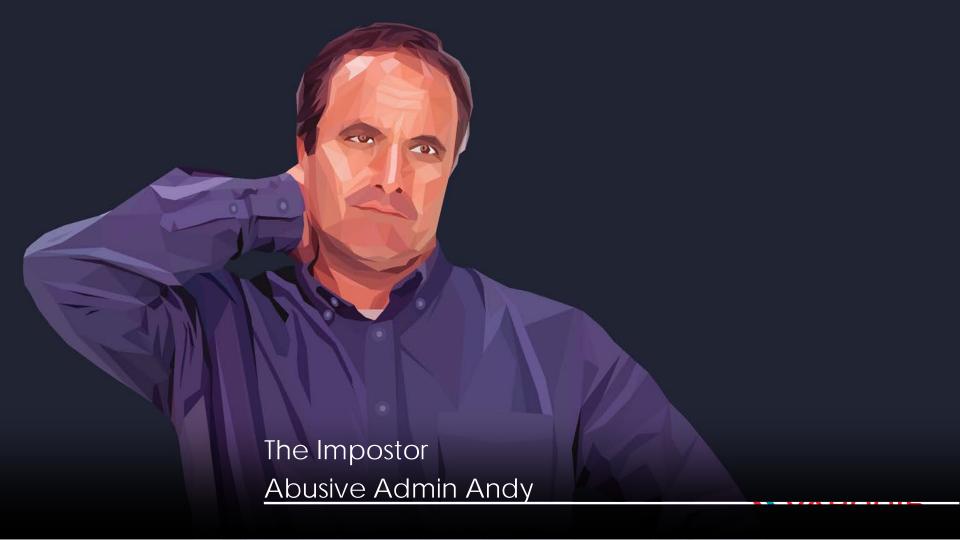


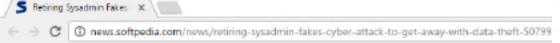












SOFTPEDIA®

DESKTOP =

MOBILE

WEB

NEW



Softpedia > News > Security > Incidents

Retiring Sysadmin Fakes Cyber-Attack to Get Away with Data Theft

He did it because he wanted a house in a seaside town

Sep 6, 2016 02:05 GMT - By Catalin Cimpanu ♥ - Share: ● F f ♥ 🏋

A system administrator for an unnamed company was caught defacing h firm's website to hide the theft of company data, which he planned to so then retire to a seaside town abroad.

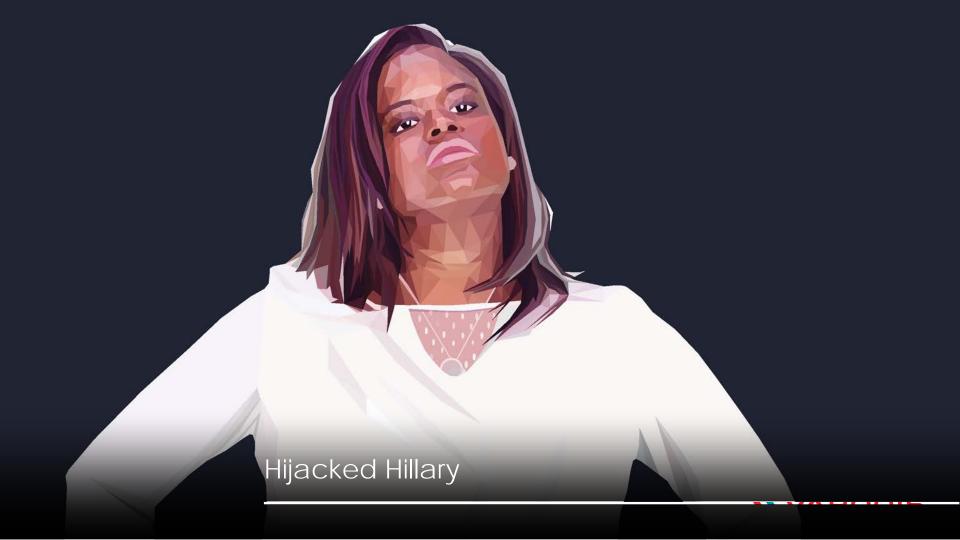
The system administrator, who, due to non-disclosure agreements signed in such s incidents, cannot be named at this point in time, had worked for his company for 1 and had earned the trust of his colleagues.

The employee had always wanted to buy a house in a seaside town abroad when it time to retire. Unfortunately, he wasn't able to gather all the money to follow throu his dreams.



As he was getting near retirement, the system administrator received an offer to sell corporate data, which would have allowed him to purchase the house of his dreams and retire as he always wanted.



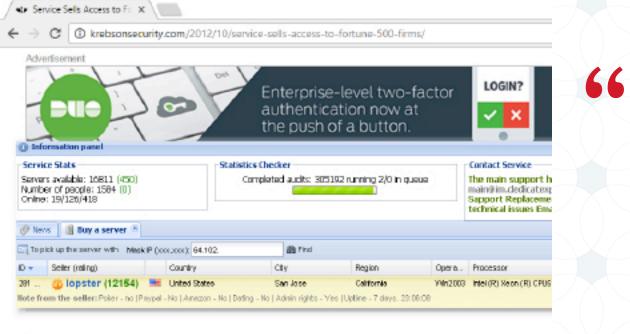




Walter Liew







22 Service Sells Access to Fortune 500 Firms

OCT 12

An increasing number of services offered in the cybercrime underground allow miscreal purchase access to hacked computers at specific organizations. For just a few dollars, services offer the ability to buy your way inside of Fortune 500 company networks.

The service I examined for this post currently is renting access to nearly 17,000 computers worldwide, although almost



"The service I examined for this post currently is renting access to nearly 17,000 computers worldwide"

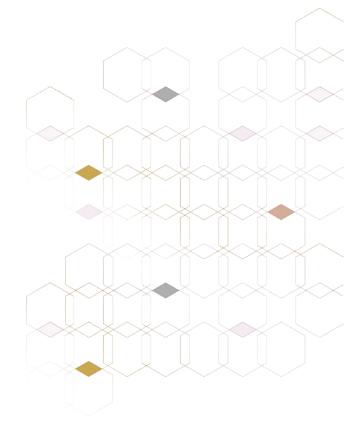


What data is most vulnerable to insider threats?



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Data volume is set to grow 800% over the next 5 years and 80% of it will reside as **unstructured** data.



"

Gartner, 2015



The attackers primarily focused on utilizing SMB commands to **map network file shares of OPM users** who had administrator access or were knowledgeable of OPM's PIPS system. The attacker would create a shopping list of the available documents contained on the **network file shares**.

"

Jeff Wagner, OPM's Director of Security Operations

LOST CAT REWARD: \$20,000









CONTACT: 310-299-7905







What can you do?



DETECT

insider threats by analyzing data, account activity, and user behavior.



PREVENT

disaster by locking down sensitive and stale data, reducing broad access, and simplifying permissions.



SUSTAIN

migrations, & disposition.



DETECT



Map directory services, permissions, file systems



Discover sensitive and stale data



Automatically identify administrators, service accounts, and executives



Audit all file system and email activity



Baseline what normal behavior looks like



Detect suspicious behavior

- Crypto intrusion and other malware infections
- Privilege escalations
- Abnormal access to sensitive data



Prioritize where sensitive data is overexposed and at-risk

PREVENT



Lock down sensitive and stale data



Fix Active Directory and file system issues



Eliminate global groups



Simplify permissions structure



Identify Data Owners outside of IT



Prune unnecessary access



Data Owners perform entitlement reviews

SUSTAIN



Continuously monitor all user & file system activity



Automatically catch and correct deviations from policy and trusted state



Automate quarantining of sensitive data



Automate archival or disposal of stale data



Automate authorization workflows and entitlement reviews



Automate revocation of access

Summary

- Ransomware are dumpster divers wanting to collect a quick nickel
- Its existence, persistence and "success" illustrate how soft our "insides" are
- Other insider threats are more dangerous.
- Files and emails are frequent targets
- The approach: Detect, Prevent, Sustain



Free Data Risk Assessment – http://bit.ly/threatcheck







Thank You

Ben Hui

