

WHO'S TARGETING YOUR SENSITIVE DATA AND HOW?

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TRITON STOPS MORE THREATS. WE CAN PROVE IT.



Start with a question...





What does the National Security Advisor to the Obama administration think is the greatest threat to the world today?

Answers on a # tag please...



A. Obama Himself

B. Nuclear Weapons

C. Weapons of Mass Destruction

D. The Keyboard

Answers on a # tag please...



D. The Keyboard

"..today we see that same level of capability being exercised by lone individuals armed with keyboards instead of bombs."







The Cyber Security Journey (so far..)



Today's goal is Risk Based/Data-Centric with Threat Modelling

COMPLIANCE

AD HOC

BASED

INFRASTRUCTURE

BASED

RISK BASED / DATA-CENTRIC

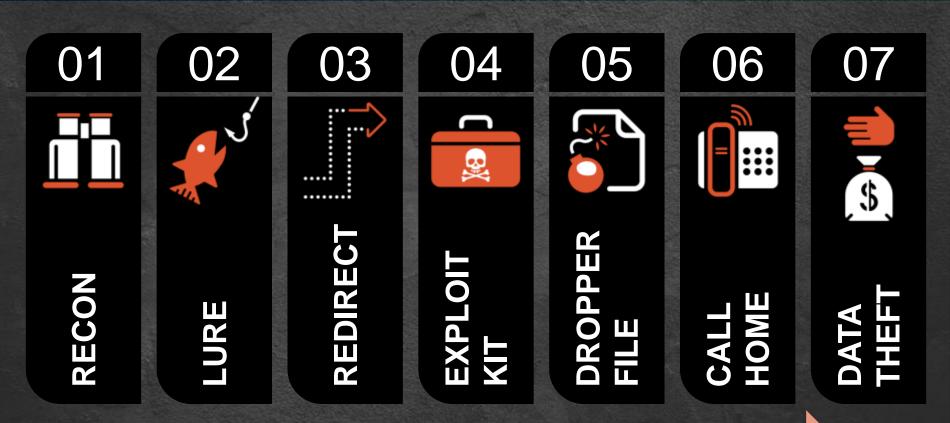
But we are still 10 years behind...



THE CENTRIFUGES THAT SPIN NUCLEAR MATERIAL AT IRAN'S ENRICHMENT FACILITIES

These Advanced Attack can be broken into stages...

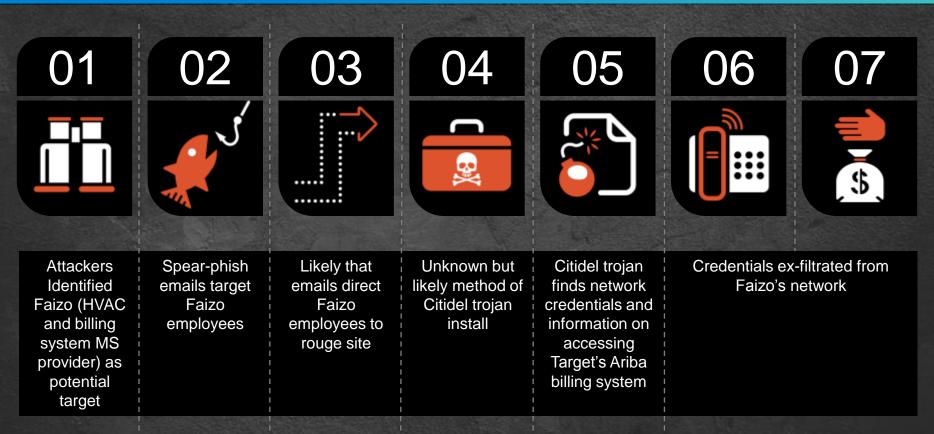




Increased Risk of Data Theft

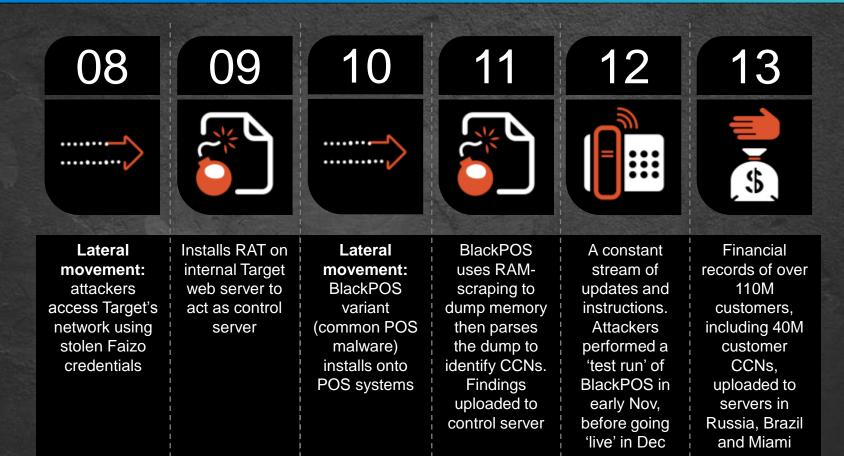
For example: Target Corp – Late 2013





Modern Attack: Target Corp – Late 2013



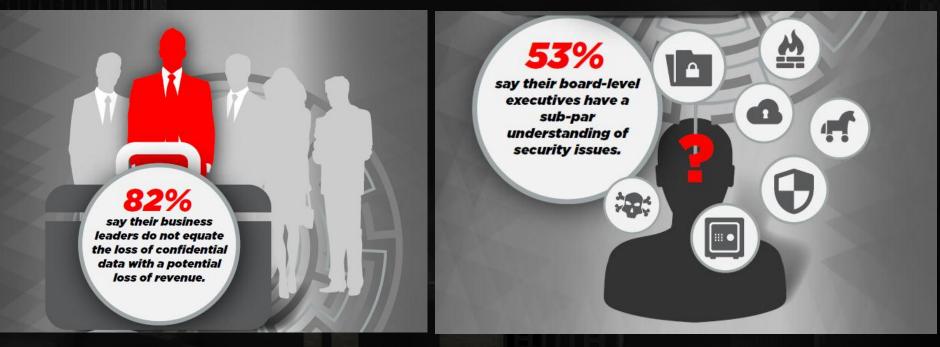


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Why these attacks happen from a CISO Perspective () TRITON



WARNING: GRATUITOUS STATS FOLLOW!



So where do we see the risk to Data Security today?



Broken Business Processes



Insider Threat



Malicious Threats

And we can sum up the why in 140 words...





Follow

Stolen social media passwords can now be worth more to hackers than credit card details, a study has found. ow.ly/v96Uh

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Stolen Twitter passwords worth more than credit card details: study



Stolen Twitter accounts can now be worth more to hackers than credit card details, a study has found.

View on web



6:35 PM - 28 Mar 2014



Access to social media accounts such as Twitter can be worth far more, varying from \$16 to more than \$325, because of the hints they can provide on how to hack into other aspects of a victim's online identity.

Which is where the Privacy Act comes in...





Australian Government

Office of the Australian Information Commissioner

Home About us News and events Privacy Freedom of Information Information policy

About Privacy

Fines of up to \$340k and \$1.7m for serious breaches

Introduced in March 2014 to replace the NPP's. Adds new definitions for health care and credit providers

Applies to all organisations with >\$3m turn over Covers personal and sensitive information

> Makes Australian entities responsible for cross border data

But the essence of the new act is...

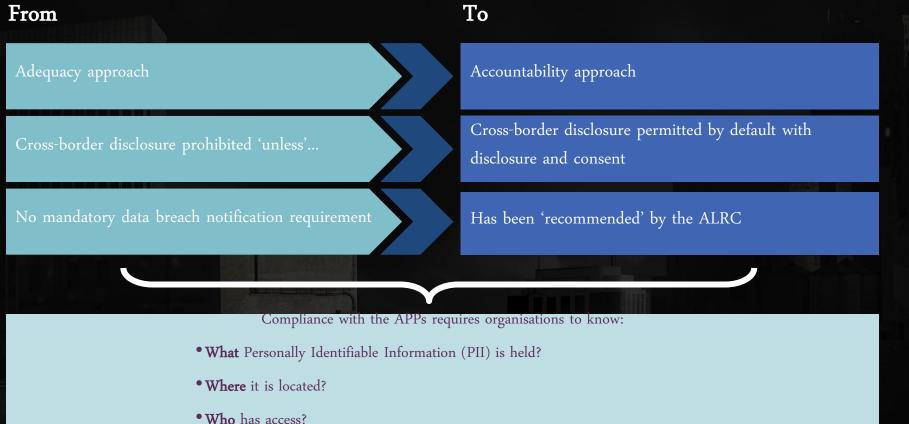




For organisations to handle personal (and sensitive) information in an open and transparent manner.

So which key changes in the Privacy Amendment bill are likely to impact technology?





• How it is secured?

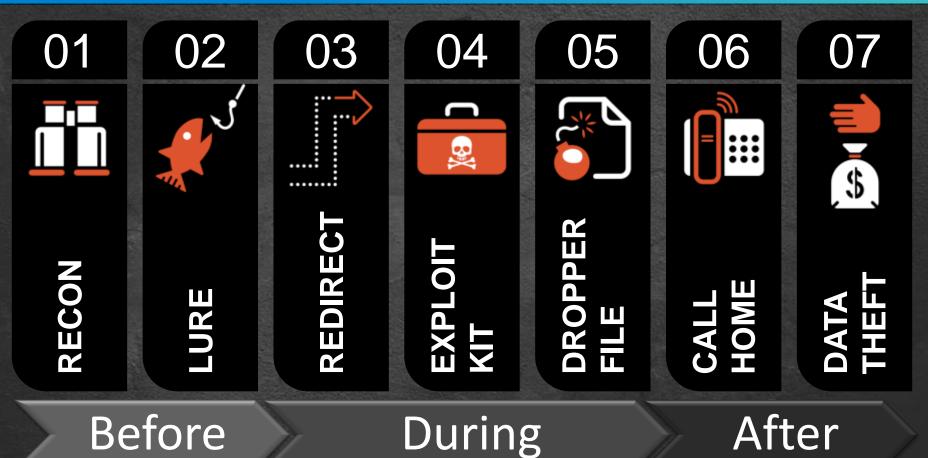
And APP's can be mapped to what, where, who and how () TRITON



Australian Privacy Principle	APP Clause(s)	Compliance Metric	Tools / Products
APP 3 – 'collection of solicited personal information'	3.1, 3.2, 3.3, 3.4. Clauses relate to the collection of solicited personal information and collection of sensitive information that relates to a business function or activity.	Define what constitutes Personal data. Discover what and where sensitive or personal information resides. Identify the business process and who has access to the data. Ensure this is commensurate with business functions or activity. Define process to destroy or de- identify superfluous data.	 Data Loss Risk assessment Initially to provide a snapshot of what and where personal or sensitive information is being stored and how it is flowing throughout an organization. This should provide an initial indication of whether an organization needs to consider if it is compliant or non compliant. DSS Data Discovery Ongoing discovery of what and where personal & sensitive information is being stored. Provide audit trail of where the data is flowing. Enable organizations to determine whether information is being used for a legitimate business purpose or activity.

So what can we do to reduce the risk to our data?





Combatting Data Theft: Before

02

URE





TECHNOLOGY

URL Link Analysis at point-of-click

Anywhere URL Link Analysis/ Roaming/OWA user coverage

Log & Event Correlation

Phish attack reporting

Phishing education

PROCESS

Spear-phish/Social Engineering Assessments

Incident Handling and Workflow

Social Media Monitoring

PEOPLE

Security/Phishing awareness

Social Media/Web-smart training

SECON

Combatting Data Theft: During



TECHNOLOGY Real-time Behavioral & statistical analysis

File Sandboxing

Content Decryption

Roaming/off-network user coverage

Patch Management



PROCESS

Incident Handling/ Response & Workflow

Forensic Investigation

Event Correlation

PEOPLE

Security Awareness

Combatting Data Theft: After



TECHNOLOGY

Password/SAM DB Detection

Decryption & Custom Encryption

PII, PHI, IP and Sensitive Data

Data Dripping Detection

Optical Character Recognition

Geo-location based policy

PROCESS

Identify & Classify

Incident Handling and Workflow

Forensic Investigation

Event Correlation

Risk Assessment

PEOPLE

Data-smart education





USERS: THE NEW PERIMETER

THE FOCUS OF MODERN SECURITY IS SKEWED TOWARDS A PERSPECTIVE THAT LOOKS PRIMARILY AT THREATS.

A CONTEXTUAL UNDERSTANDING OF DATA AND USER BEHAVIOR IS NEGLECTED.



DATA PROTECTION SYSTEM WITH 360° DEGREE VIEW OF DATA AND BREACH

THREAT FOCUS DATA FOCUS USER FOCUS

Company evolution – collaborative flows of data



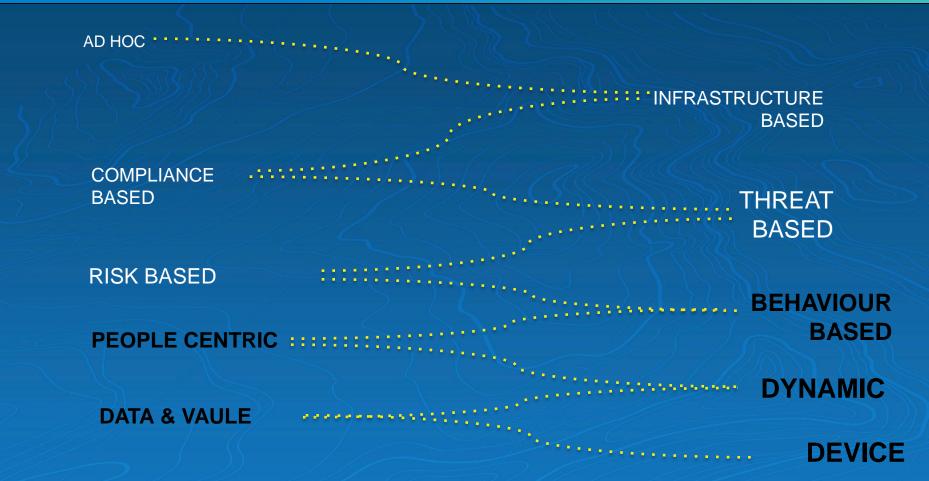


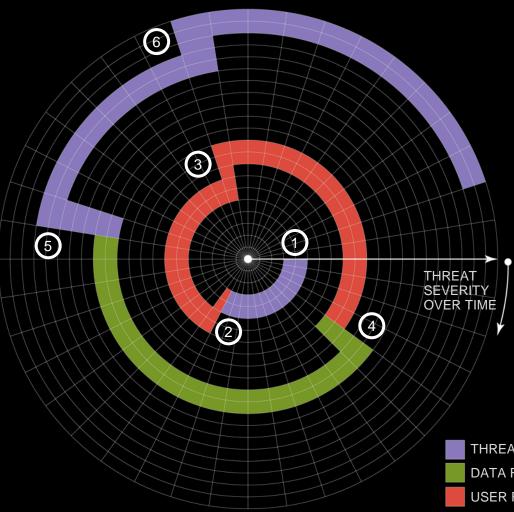
Business will become fluid and dynamic. Value will come from the flows of information, not in the data assets.

Communicating it & exploiting it faster than other people will be the key business driver.

So the security journey needs to extended...







APT ATTACK:

- For the last couple weeks we noticed Joe & a few people in engineering was targeted by spear phishing attacks, which we blocked.
- 2. Last week Joe logged into VPN from a China or new IP address we have not seen before.
- 3. This week Joe authenticated to a few application he has not accessed in 6 months.
- 4. Today Joe accessed the source code (this is part of his job, but he normally doesn't download the entire tree)
- 5. Joe machine accessed bittorrent sites
- 6. Noticed Joe's computer transmitted a large data set externally via bittorrent

THREAT FOCUS DATA FOCUS USER FOCUS



And Always end with a quote....





"Procrastination in the name of reducing risk actually increases risk."

vebsense

THANK YOU

TRITON STOPS MORE THREATS. WE CAN PROVE IT.

