



Splunk!

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Agenda

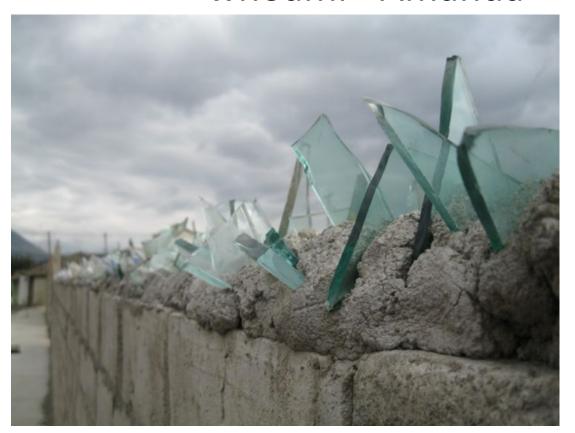
- Welcome & introductions
- IT Security, Brisbane and us....
- What is Splunk?
- Splunk for Security
- Demo time!
- Wrap up & questions

whoami - Amanda

- Studied at QUT musician by trade
- Career so far...
- Worst job
- Best Job
- What do you want to do?



whoami - Amanda





whoami - Amanda





whoami - Simon

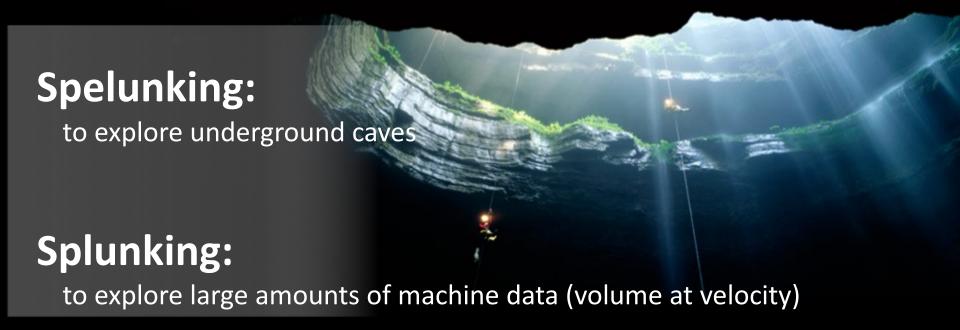
- UQ student graduated from USC via QUT
- Career so far...
- Worst job
- Best Job
- What do you want to do?



Disclaimer

During the course of this presentation, we may make forward looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC. The forward-looking statements made in the this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward looking statements we may make. In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not, be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

Splunk



The Accelerating Pace of Data

Volume | Velocity | Variety | Variability

Machine data is the fastest growing, most complex, most valuable area of 'big data'

most
Ata'
RFID,
Hypervisor,
Web Servers,
Email, Messaging,
Clickstreams, Mobile,
Telephony, IVR, Databases,
Sensors, Telematics, Storage,
Servers, Security Devices, Desktops

Turning Machine Data Into Business Value

Index Untapped Data: Any Source, Type, Volume



Ask Any Question

Application Delivery

IT Operations

Security, Compliance and Fraud

Business Analytics

Industrial Data and the Internet of Things

Industry Leading Platform for Machine Data

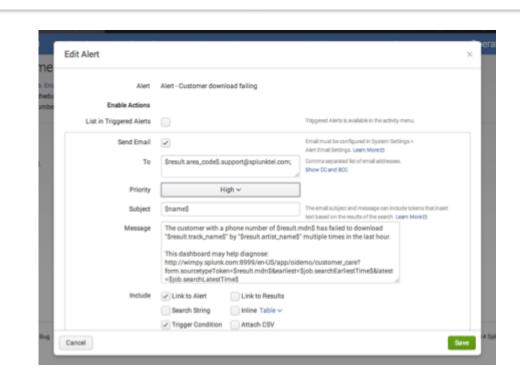
Index Untapped Data: Any Source, Type, Volume **Ask Any Question Application Delivery** On-Any amount, any location, any source **Premises** No need No liance Universal Schema-Private to filter back-end Cloud on-the-fly indexing **RDBMS** data vtics **Public** Industrial Data and Cloud **Smartphones** the Internet of Things

and Devices

Actionable Alerting

Alerts

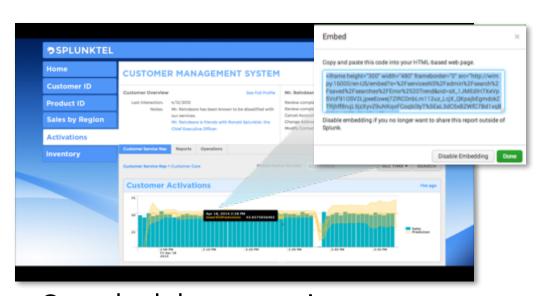
- Create alerts based on any search
- Customize content and format of email alerts
 - Provide context
 - Highlight next steps
 - Enable custom workflows
- Trigger a script
 - SMS alert
 - SNMP trap
 - Other



Combine Reports to Create Dashboards

Use the built-in dashboard editor





Or embed the reports into external sites like a wiki

Turning Machine Data Into Operational Intelligence







Demo Time!

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Splunk for security

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All Data is Security Relevant = Big Data



Example of Advanced Threat Activities

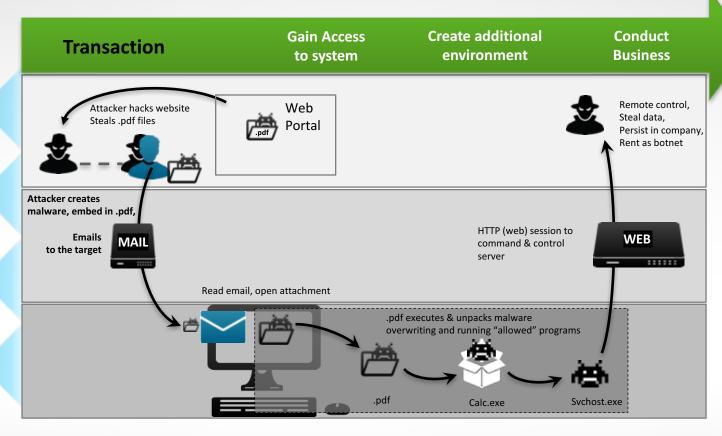






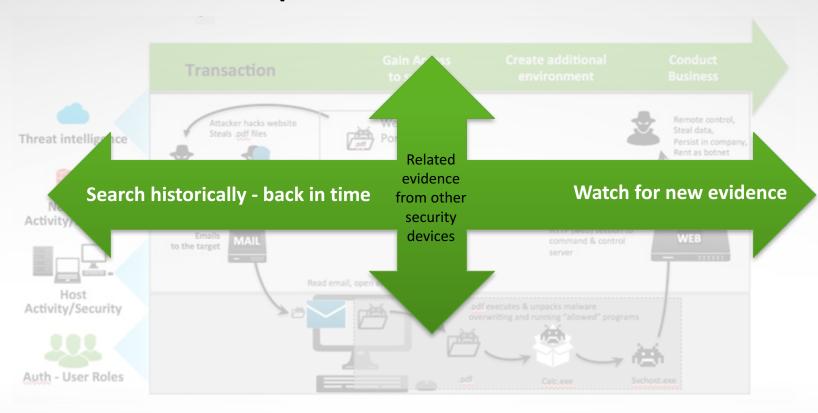
Activity/Security

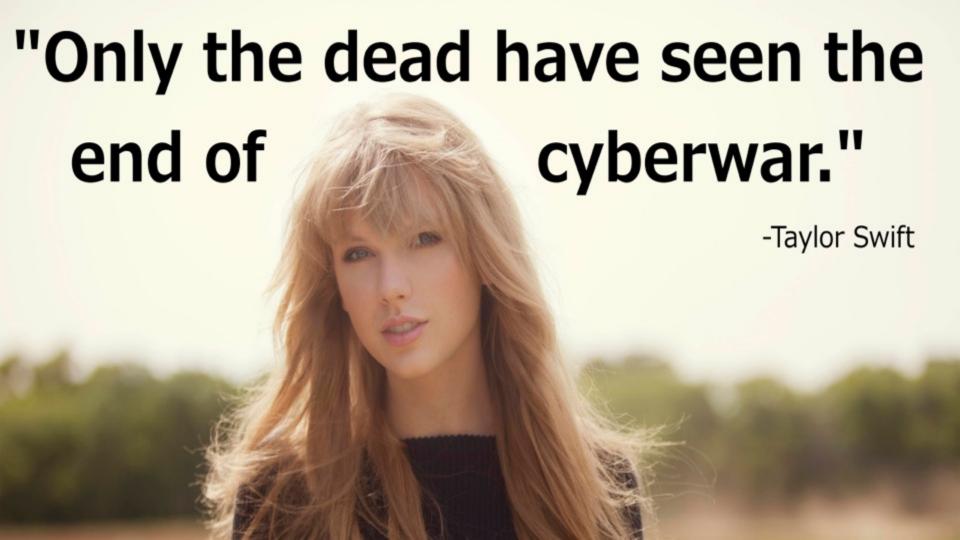






Use Splunk to Find Evidence





Connect the "Data-Dots" to See the Whole Story

Delivery, Exploit Gain Trusted Upgrade (escalate) Persist, Repeat **Data Gathering Exfiltration** Lateral movement Installation Access Third-party Threat Intel Attacker, know relay/C2 sites, infected sites, IOC, attack/campaign Open source blacklist intent and attribution Internal threat intelligence Threat intelligence **Firewall** Web Proxy Where they went to, who talked to whom, attack transmitted, NetFlow IDS / IPS Network abnormal traffic, malware download **Activity/Security Vulnerability scanners** Network What process is running (malicious, abnormal, etc.) Process owner, registry mods, attack/malware artifacts, patching level, attack susceptibility Host



Activity/Security

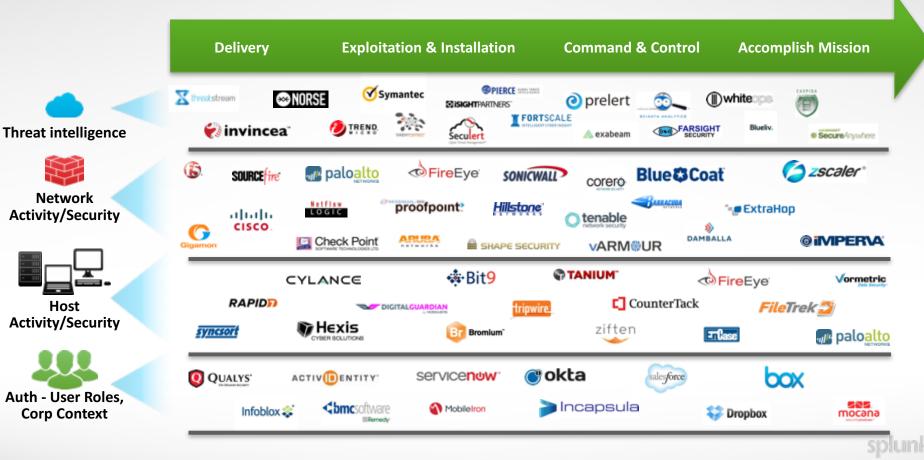
Access level, privileged users, likelihood of infection, where they might be in kill chain

- Active Directory
- LDAP
- CMDB

- Operating System
- Database
- VPN, AAA, SSO



Security Ecosystem for Coverage and Protection



Example Patterns of Fraud in Machine Data

Industry		Type of Fraud/Theft/Abuse	Pattern
<u> îii</u>	Financial Services	Account takeover	Abnormally high number or dollar amounts of wire transfer withdrawals
*	Healthcare	Physician billing	Physician billing for drugs outside their expertise area
₩	E-Tailing	Account takeover	Many accounts accessed from one IP
C	Telecoms	Calling plan abuse	Customer making excessive amount of international calls on an unlimited plan
Ф	Online Education	Student loan fraud	Student receiving federal loan has IP in "high-risk" overseas country and is absent from online classrooms and forums

Insider Threat

What To Look For	Data Source
Abnormally high number of file transfers to USB or CD/DVD	os
Abnormally large amount of data going to personal webmail account or uploaded to external file hosting site	Email / web server
Unusual physical access attempts (after hours, accessing unauthorized area, etc)	Physical badge records / AD
Above actions + employee is on an internal watchlist as result of transfer / demotion / poor review / impending layoff	HR systems / above
User name of terminated employee accessing internal system	AD / HR systems





Demo Time!

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The Splunk Portfolio

Splunk Premium Solutions







Rich Ecosystem of Apps & Add-Ons

















splunk > enterprise

splunk>cloud

Hunk

Spunk > Platform for Operational Intelligence



















Summary



- Universal Machine Data Platform
- Real Time Architecture
- Schema on the Fly
- Agile Reporting and Analytics
- Scales from Desktop to Enterprise
- Fast Time to Value
- Passionate and Vibrant Community





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