

An OWASP Top 10 for Managers

Presenters: Shahn Harris and Dean Carter

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Company: Lateral Security (IT) Services Limited

Company Overview

○ Company

- Lateral Security (IT) Services Limited
- Founded in April 2008 by Nick von Dadelszen and Ratu Mason (Both Directors)
- Staff - AKL - 6 people, WGTN - 7 people, Hong Kong - 1 person

○ Services

- Security testing (design & architecture, penetration testing, configuration, code reviews, security devices & controls, mobile apps)
- Security advisory (Lifecycle compliance & audit – ISO, PCI-DSS, NZISM, policy process development, threat modelling and risk assessment)
- Regular ongoing technical testing and assurance programs

○ Differentiators

- True vendor independence
- Security testing and advisory are our niche specialties
- Highly experienced and skilled staff

Who are these guys?

○ Shahn

- Security Consultant for Lateral Auckland
- Ex ISP, Finance and Local Government sector (sorry about the rates)
- Convinced an ex-QSA to wear a fur suit at a hacker con...

○ Dean

- Security Consulting Manager for Lateral Auckland
- Ex ISP, Finance, Telco and Media sectors
- Recovering ex-QSA
- Appeared at Kiwicon dressed in blue fun fur.... 'nuff said

Objectives

- This contents of this presso seemed blindingly obvious to us... but...
 - These 10 aspects of a solution delivery lifecycle are often neglected or ignored in projects
 - As a result security is considered a roadblock
- We want you to embrace security within your project lifecycle without delaying delivery
- As a result your developers can deliver on the technical “bits” (using OWASP of course!)

Sacrebleu!

- **Point solutions are like the Maginot Line**
 - They protect on a single front
 - Exposing every other flank



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Holistic security

- Our Top 10 is hand picked by Lateral Security
- This will help project planning and budgets
- Reduce delays by removing roadblocks!
- Allows your Developers to weave their magic

Our Top 10...

- 1. Data**
- 2. Laws and Regulations and Standards**
- 3. Access Controls**
- 4. Technology Stack**
- 5. Security**
- 6. 3rd Parties**
- 7. End State**
- 8. Maintenance**
- 9. Risk**
- 10. Reputational Damage**



Data

- **Identify the data you will be touching**
 - PII (Personal Identifiable Information)
 - PCI (Payment Card Industry)
 - Corporate
 - Customer Data
 - Your Customer's Customer's Data
- **Classify the data**
 - Classification dictates handling rules
 - Yes, you'll need a policy
 - May require legal and HR input
 - May not be solely a security or project issue



Laws and Regulations

- **Which laws and regulations apply?**
 - Privacy Act, local Government etc
- **Which compliance requirements apply?**
 - PCI DSS, PA-DSS etc
- **What are the relevant (internal) policies and standards that apply?**
- **Where is your data being stored**
 - Are you really sure?
- **What about data jurisdiction?**
- **Is it on Megaupload?**



Access Controls

- **Does access need to be restricted? Clue: YES!**
 - By IP, MAC, username, other?
- **Who will have access?**
 - Customers, Service Desk, Third Parties etc
- **Do they really need admin access? No, REALLY?**
- **Is all access authenticated?**
 - Level of auth should reflect risks
 - How many different roles exist?



Technology Stack

- Are you innovating or replacing “like for like”?
- Is it technology that your organisation is prepared / able to support?
- Does it fit your IT strategy?
- Do you have enough staff to support it?
- Are your staff appropriately trained / skilled?
- Consider the future
 - Are you an SMB who could be the next TradeMe?



Security

- Is it a consideration for every project?
- When does the engagement with the security team take place?
 - Start early... keep in touch!
- Does the investment in security match the project risks?
 - Internal Wiki?
 - Online Share Trading?
 - Remote access?
- Future enhancements could drastically change the security posture



Third Parties

- **Makes sense if you don't have internal skills**
- **What standards do you require of your 3rd parties?**
 - OWASP, PCI etc
- **Do you check their references?**
- **Do you buy on price alone?**
- **Do YOUR 3rd parties outsource?**
- **CONTRACT – talk to legal and procurement early**
 - Right to audit
 - SLAs
 - Code fixes and upgrades
 - Change control



End Environment

- **Is it internal or external facing?**
 - Access controls! (refer earlier slide)
- **Is it transactional?**
 - Could it be in the future?
- **Type of data?**
- **Value of data?**
 - What is the value to your Organisation?
 - What is the value to your Customers?
 - What is the value to an attacker?
- **What is the worst that can happen?**



Maintenance

- **You've built it.... It's gone live...**
- **Who maintains it?**
 - Internal / External?
 - SLAs
 - Do they understand the tech stack?
 - Are they up to date with threats and vulnerabilities?
- **You need to maintain your investment**
 - New threats evolve
 - It is cheaper to maintain than rebuild
- **Operational security processes**
 - Change Control
 - Vulnerability scanning,
 - Patching
 - Log review

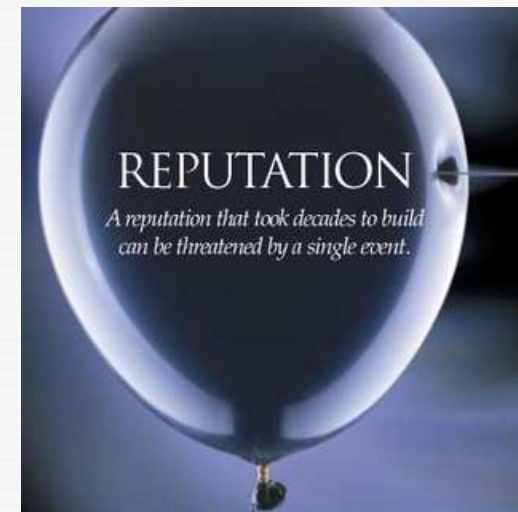


Risk

- **There is no such thing as 100% secure**
- **Understand your risks**
 - Communicate them with the Business
- **Start simple if you have nothing**
 - Track risks on a risk register
- **Use risk register to drive remediation budget**
- **Do you understand the real implications of the risks you are signing off**
- **Again... ask yourself and others.... What is the WORST thing that could happen?**
 - The concept here, is not to spread fear, but to get team buy-in

Reputational Damage

- **Ask your CEO how he/she would feel**
 - To be on the front page of the NZ Herald
 - To be the feature story on the News at 6
 - Be on the Register for emailing out passwords to your conference
- **Rebuilding a server is easier than rebuilding you reputation**
 - Keeping it patched is even easier
- **Marketing have great ideas**
 - Balance them with your Security Pessimist!



Parting Thoughts

- **Make an attempt to bridge the gap between tech and management**
- **Balance the security controls**
 - Prevent – Detect – Correct
- **Point solutions are like the Maginot Line**
- **Laws and regulations are your friends**
 - Use them to improve security awareness and drive budgets
- **These 10 tips are just a tiny part of the security puzzle**

Contact Details

Lateral Security (IT) Services Limited

Wellington

38-42 Waring Taylor Street (level 7, Petherick Tower)

PO Box 8093, Wellington 6143, New Zealand

Phone: +64 4 4999 756

Email: sas@lateralsecurity.com

Auckland

187 Queen Street (level 8, Landmark House)

PO Box 7706, Auckland, New Zealand

Phone: +64 9 3770 700

Email: sas@lateralsecurity.com

