



Dan Weis

- Practice Lead Penetration Testing & Security Services
- I get paid to break into company & government networks for a living
- Major Nerd, Been in I.T since 1994.
- 15 Years in security space
- 13.5 years of doing pentests and security engagements for clients
- Trainer of upcoming ethical hackers and Nerds.
- Stack of certs (23), 1 of the first 10 people globally to become a certified ethical hacker.
- Have documented CVE's attributed for 0days identified in SCADA/Control Systems
- Public speaker on all things Infosec & Darkweb, presented at over 80 conferences and events over the last 5 years.
- Multiple TV & Radio appearances, Newspapers, magazines etc., Stack Online Stuff
- Author Hack proof yourself! & co-author of Learn Social Engineering









DISCLAIMER

STOP!



The content presented today contains tools, techniques and resources used for hacking & illegal activities



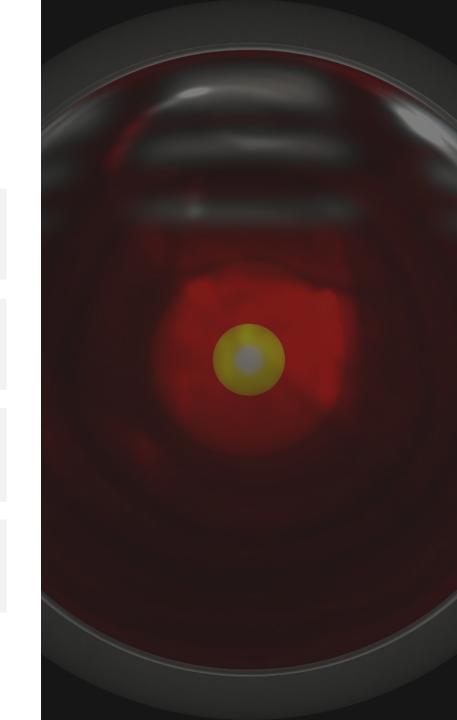
The content is for education purposes only



Hacking is illegal. You **MUST** have written permission from the associated target/party(s)



I do not condone illegal hacking or malicious activities.





Nexon engagements

- We perform Penetration Testing & Security Engagements for clients anywhere from 100-150 engagements each year:
 - Penetration Testing engagements
 - Cyber Risk Assessments
 - Security Consulting, Security Training and Phishing Simulations.
- Our clients are from all industries and sizes
- Goal is to Provide our clients a picture of their Cyber Risk Posture and to assist them with increasing their overall security posture and to not become the next headline.

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Threat Landscape

- So much scaremongering!
- We see everyday in the news, x number of hacks are happening
- X number of Data Breaches & Breach Records Each Year (Always in the Billions)
- 62% of SME's reported cyber attacks last year
- Average breaches is anywhere from 276k to 1.6M



Threat Landscape

OAIC NDB – Most accurate Source for Data Breach Stats

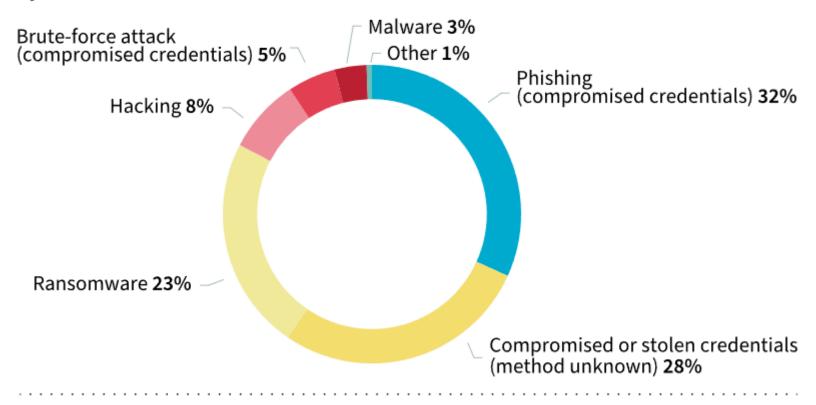


Source: https://www.oaic.gov.au/privacy/notifiable-data-breaches/notifiable-data-breaches-statistics/notifiable-data-breaches-report-july-december-2021



37% of all data breaches resulted from cyber security incidents (173 notifications)

Cyber incident breakdown



CHALLENGES TO SECURITY



DUMB AS*ES BRINGING OUT PRODUCTS LIKE THIS:

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whyle-r"packding burtom: 150 000000%"



AND THAT LACK OF AWARENESS:

anyles "packfing bottom. YES Stockbook."

Password Change Sign Up sheet

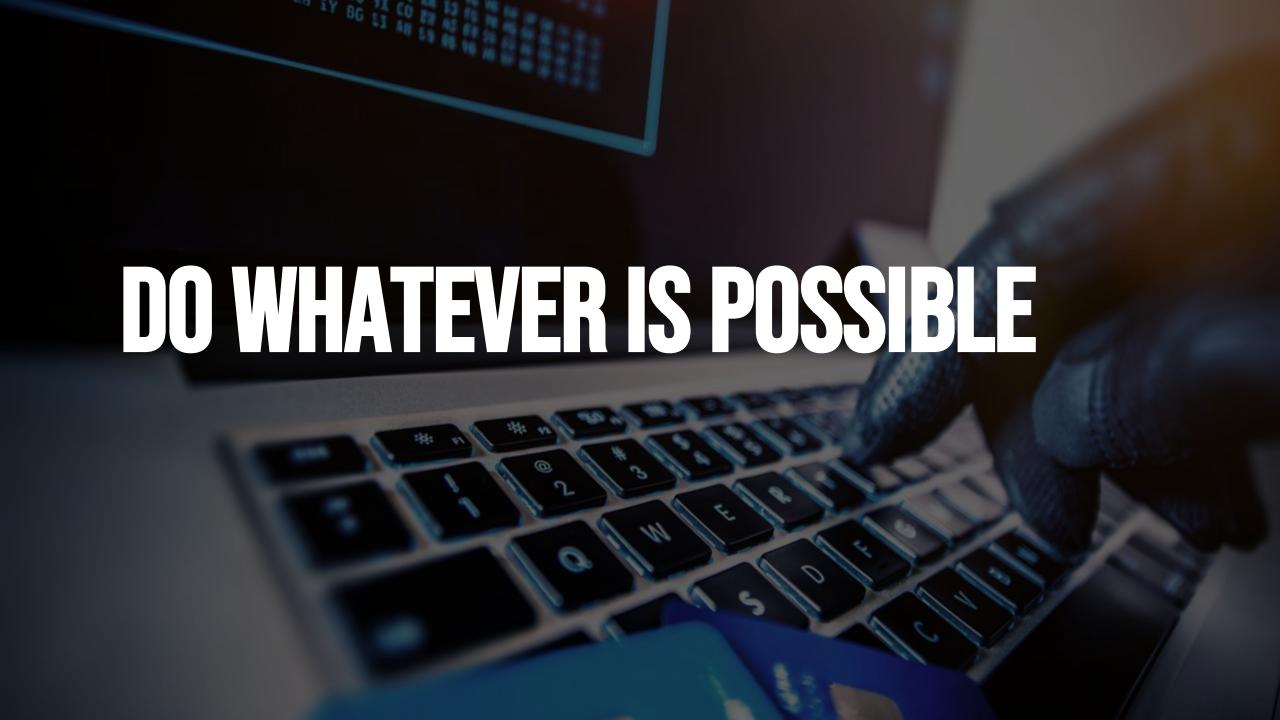
If you'd like to change your password please fill out the form below and we will change your password on the system you indicate.

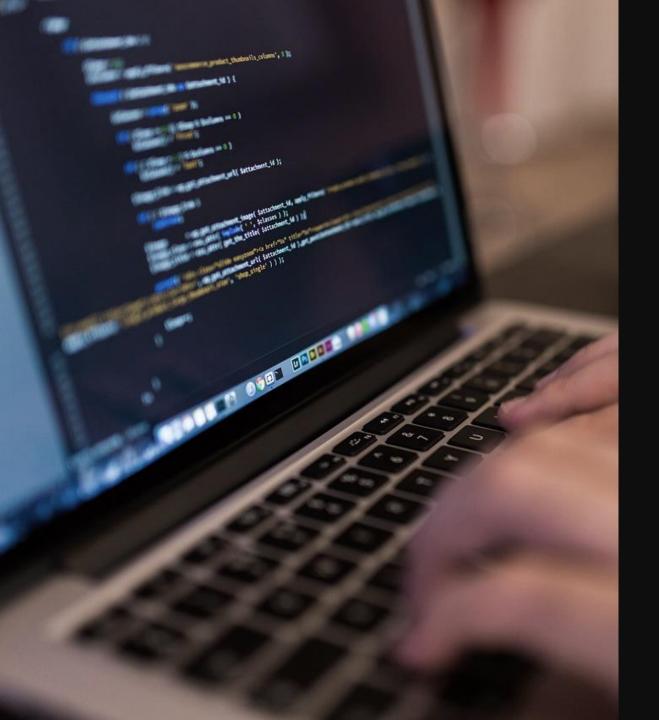
Full Name	System (Yardi, email, ect.)	Current password	Now
Cyle Smith	6.0		New password
IZ JONES	Email	Scooter 49\$	Skeeter 442 Call 4
	PHONE	89621	4281 Cas
JACK H.	Ema: 1"	Password	
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Why are they doing it?

- Cash Bro!
- Show off to their hacker buddies
- Because they can (60 minutes on youtube is enough to be dangerous)
- Because you business wronged them in some way (or so they think)
- Business Interruption (think competitive advantage)
- Nation advantage
- But they have one main goal...







TECHNIQUES

How are they getting in

- Recon / Information Gathering
- Social Engineering & Phishing Staff
- Passwords (reuse of passwords), credential stuffing or password sprays
- Leverage vulnerabilities in systems like misconfiguration from I.T
- Leverage MSP's
- Relying on lack of knowledge from individuals and Business
- Every day attacks become more complex

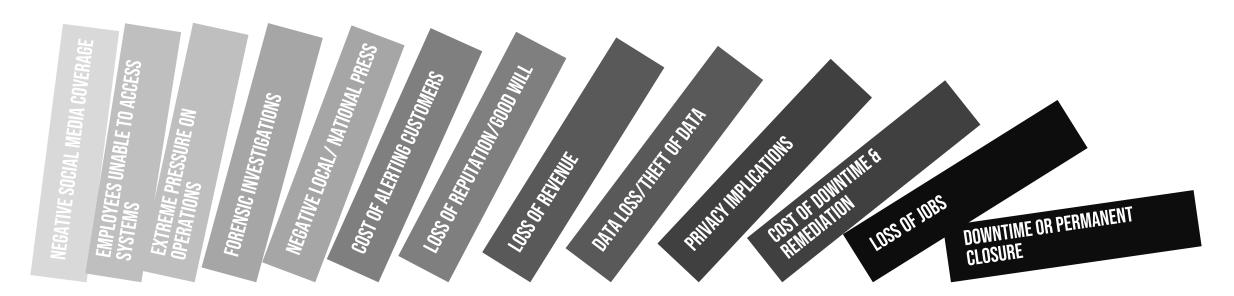


And once they are in...

- Doing whatever they can
- Mapping out your systems and processes
- Access whatever data they can get their hands on, money, files etc.
- Email/phishing customers
- Usually in the network for weeks or months before detection
- Either as a diversion or as the finale they hit you up with Ransomware to shutdown your operations and/or get paid.

EFFECTS OF BREACHES

TO I.T SECURITY



DOMINO EFFECT ON SECURITY INCIDENTS

DISCLAIMER

STOP!



The demo about to be presented contains common techniques, information leakage and vulnerabilities that **EVERY** organisation has



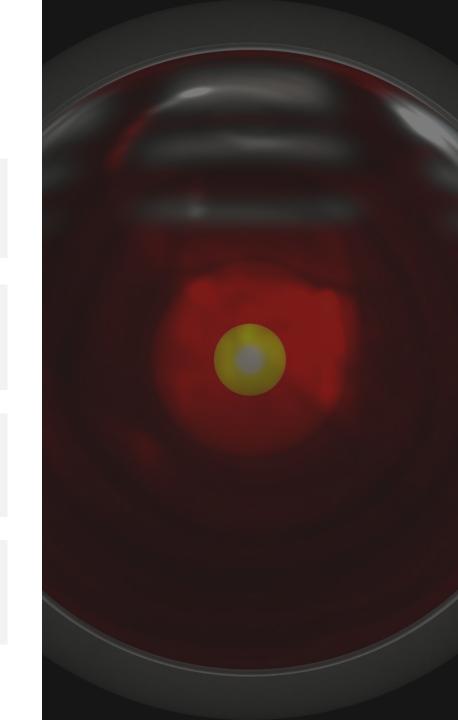
It does not indicate that an organisation, person or entity is vulnerable or has weakness or vulnerabilities in their environment in any way.



Although a specific organisation will be targeted, the same outcomes would be achieved against ANY organisation with an internet presence



The demo's are for education purposes only.





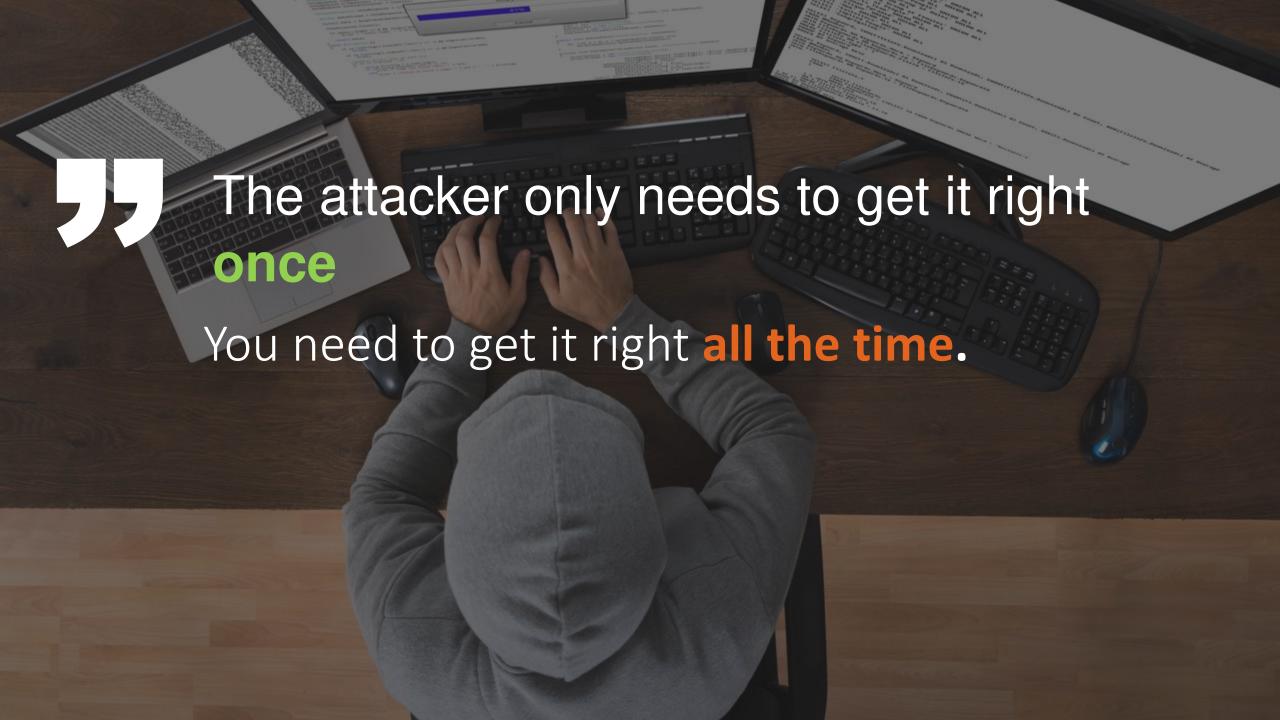
TIME FOR A DEMO

Hacking Networks is like a jigsaw Puzzle...

We live in a digital age.

- Information is everywhere
- Everything is Online
- It's easy to get (no tech hacking)
- You just need to know how to piece it all together!







Common Findings

- IT Guys wear the security hats as well
- Non/Limited segmentation of admin accounts
- Account Hygiene
- Passwords Weak Adoption, including length & complexity, non sentence adoption
- Lack of staff awareness & training
 - Handing over Passwords
 - Opening things they shouldn't
 - Payments without verification







Common Findings

- General Phishing & Credential Harvesting Success
 - 30% click rate
 - 72% hand over their passwords
 - 6% respond in under 5 minutes or less
 - Repeat offenders on every engagement
- Lack of detection & Incident Response & Cyber Resilience
 - Have no idea an attack is underway until its too late
 - No regular testing of Incident Response plans and simulations
- Low application whitelisting adoption
- Unsupported Operating Systems, legacy software & Apps,
 Patch Management



Common Findings

- Regular Pentesting & Remediation
 - Opt for every 2 years instead of annual
 - Not remediating all issues due to under resourced

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return null !== a.val && a.val.length >= a.arg || g.minSelected.replace|| memn || a.me
},
radio: function(b) {
    var c = a(this.form.querySelectorAll('input[type-radio][ame="" | b.ame="" || b
```





WHAT'S YOUR PATH OF LEAST RESISTANCE?





Your role as Auditors

- Educate your clients on cyber risk & cyber resilience.
- Ensure they have a program in place to quickly and effectively respond to a breach/incident.
- Ensure they are taking the necessary measures to prevent becoming low hanging fruit, Find those paths of least resistance!

CYBERSECURITY CHECKLIST FOR A BUSINESS

Have you had a Penetration Test (Pentest) Performed?

Do you have an incident Response policy/process in place?



Are you prepared for Mandatory Breach Reporting?

Are you cyber resilient? Can you quickly bounce back from a breach



Are your I.T Guys doing the right thing? What are they doing about:

- Backups
- Endpoint Protection (EDR)
- MFA (multifactor authentication)
- Cloud Security (Conditional Access, DLP, password Controls etc)
- Detection and Response
- Adopting ACSC E8
- Regular Vulnerability Scanning & Patch Management
- Monitoring, would they know if you were hacked?
- Locking Down the environment
- Network Security
- How are they protecting their network? (if an MSP)

CYBERSECURITY CHECKLIST FOR A BUSINESS



Cyber Insurance Coverage, is it in place and is the amount of cover suitable? (Hint your 1M ML is probably not enough)



Staff Awareness Training (Micro Learning) and Regular Phishing (Every month!)

Get Educated! keep abreast of the latest security news and vulnerabilities/exploits:

- Newsfeeds
- Websites like LinkedIn, thehackernews etc.
- Membership services, ACSC, AusCERT, Scamwatch etc.
- Discord channels etc.
- USA CISA

If you have been hacked.. Or suspect it

- IT / Incident Response provider
- Kick into play Incident Response Plan
- Contact ACSC (1300 CYBER1)
 - They will assist with you other third party involvement & reporting
- Engage Cyber Insurance Provider (Potentially)

From the Personal Side

Reach out to IDCare



THANKS FOR WATCHING

See you next time



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Questions?

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