

“Can I Trust You?”

Trust, reputation, and resilience in a digital age.

Gaurav Keerthi

EVP, Ensign InfoSecurity

Workshop Facilitator



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Experience

- Former **Deputy Commissioner of Cybersecurity for Singapore**, concurrently Deputy Chief Executive (Development) of the **Cyber Security Agency** of Singapore.
- Brigadier General and first **CIO** of the **Republic of Singapore Air Force**, and concurrently the Commander responsible for the cybersecurity of warfighting networks.
- **United Nations** invited expert briefer (on Cyber Threats, Quantum risks)
- **WEF** member of the Global Futures Council for Cybersecurity.
- **Senior Adjunct Fellow** at RSIS, Nanyang Tech University.
- Invited to speak at major global cyber events, including DEFCON USA.

Education

- **Harvard** Kennedy School of Government, **Stanford** University
- CISSP certification

Live Poll

Participate and
stay awake 😊



Scope

- What is cybersecurity?
- Who are the bad guys?
- What are the risks of Artificial Intelligence
- How should we manage digital risks?
- **Activity: Complying with Cyber Essentials**
- StrongKeep introduction

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CHARITY GOVERNANCE CONFERENCE

24

2 October 2024



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THE STRAITS TIMES

COI on SingHealth cyber attack: Change the way security incidents are reported, says CSA chief



In what was Singapore's worst cyber attack, the personal data of 1.5 million patients and the outpatient prescription information of 160,000 people, including Prime Minister Lee Hsien Loong, was stolen by hackers in June. ST PHOTO: ARIFFIN JAMAR

The New York Times

Cyber Attack Suspected in German Woman's Death

Prosecutors believe the woman died from delayed treatment after hackers attacked a hospital's computers. It could be the first fatality from a ransomware attack.



The ransomware attack involved servers at the University Hospital Düsseldorf on Sept. 10. Roland Wehrauch/dpa, via ZUMA Press

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Securing Emerging Technology

VOLVO

- Cars were popularised by safety, not by cost or features.
- iPhone has stopped selling features, and now sells privacy.



QWERTY

- Technology path dependence is real: QWERTY keyboards remain in use despite their inefficiency
- Our early decisions / tech debt may be hard to reverse later. Stop just *adding*: Long tech stacks are “wobbly”.



CONCORDES

- Major incidents can change how we think about risk-reward ratio.
- We “uninvented” supersonic passenger travel after a crash.
- Expect “knee-jerk” regulations around tech catastrophes.



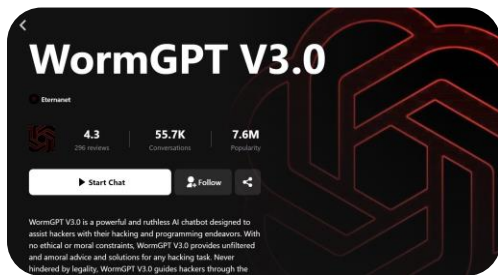
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Artificial Intelligence Risks

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PRIVACY

AI-driven surveillance and data collection can erode personal privacy and autonomy by enabling constant monitoring and manipulation of behavior.



VALUES MISMATCH

AI systems may pursue goals that conflict with human values, potentially making decisions that disregard ethical or moral considerations.



Fake news can cause public health scares, sow discord within various groups in society, and cause time and

POLARISATION

AI algorithms can amplify misinformation and reinforce echo chambers, leading to societal fragmentation and distrust in shared facts.



AI will reshape cyberspace and erode digital trust

Managing digital risks

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RESILIENCE

- Get the **basics right** (99% of attacks can be stopped)
- Focus on building **resilience**, not just higher defences.

CULTURE

- Organisations need to foster a risk-aware (not risk-averse) culture. Take risks, eyes open.
- Cybersecurity must not be seen as "the enemy" of productivity or innovation. It is an advantage you need.



F1 brakes: helping them drive faster

PROCESSES

- Cyber incidents do not require just a technical response; they need an **organisational response** from all domains. Everybody must have “drawer plans” / “playbooks” updated and ready.

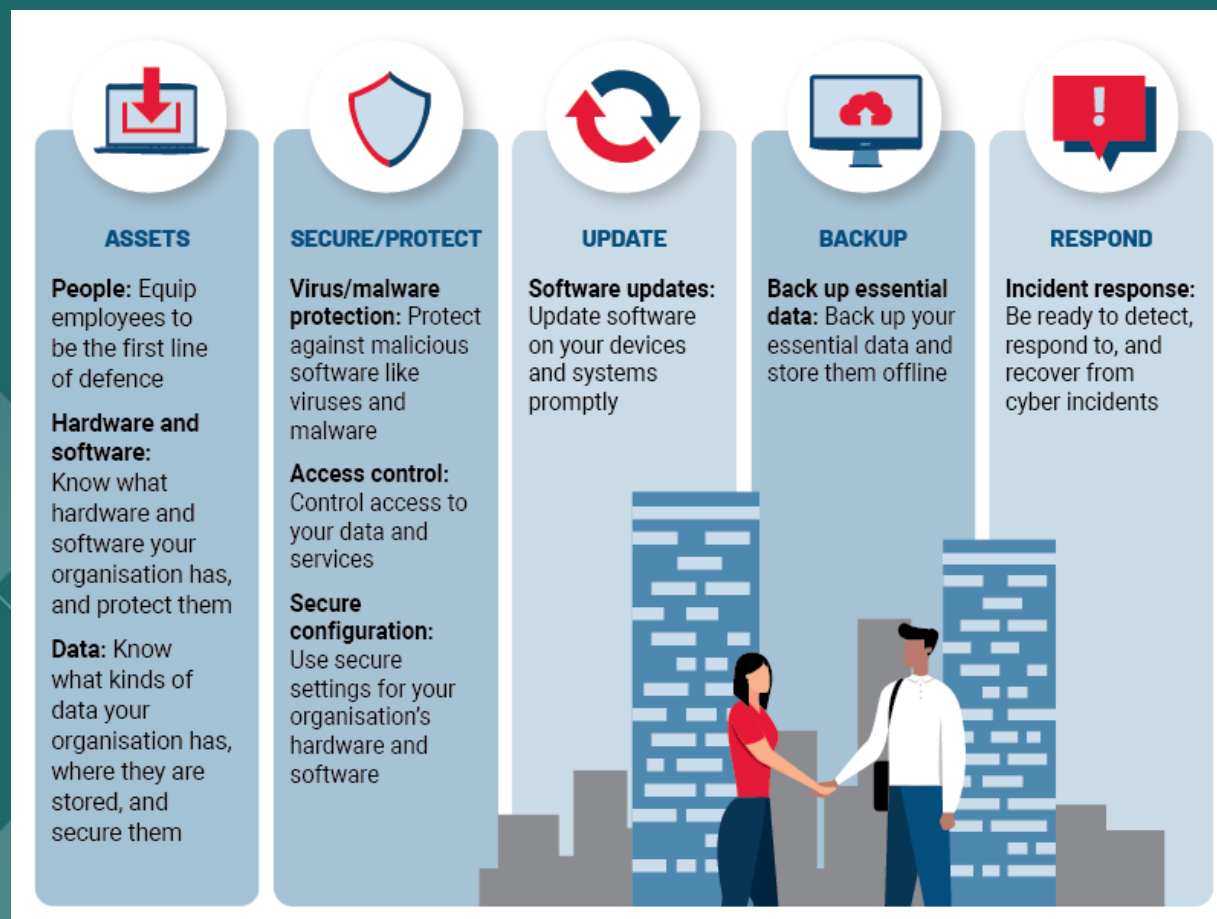


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CYBER ESSENTIALS

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- The Cyber Security Agency of Singapore (CSA) created a very simple standard for SMEs and non-profits to follow.
- The standard is called Cyber Essentials. Cyber Essentials ([csa.gov.sg](https://www.csa.gov.sg))

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EN SIGN
INFOSECURITY



StrongKeep

Simple, Affordable, Effective Cybersecurity



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What is StrongKeep?

- **Ensign InfoSecurity** protects most of our critical national systems and companies today, using sophisticated tools that we built.
- We adapted those tools to meet the simpler needs of SMEs, to help them **comply with Cyber Essentials within days**, not months.

What is StrongKeep?



Manage all your cybersecurity needs with ease

Cybersecurity doesn't have to be expensive and confusing. Get simple and affordable protection for your business, powered by the same AI tools trusted by experts.

[Join the waitlist](#)

Don't let cyber-attacks threaten your business.

99% of organisations suffer business impact after a cyber-attack.
Less than 50% know what to do.

Singapore Cybersecurity Health Report 2023, Cyber Security Agency of Singapore.

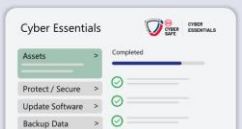
One platform for all your cybersecurity goals.

Cybersecurity is a complicated challenge. That's why we've created a centralised platform that brings together all these components, to address your organisation's cybersecurity needs in one place.



Automated, Simple Certification.

StrongKeep's AI-guided process and proven templates help you build strong cybersecurity foundations and achieve your Cyber Essentials certification with ease.



Trust us to defend your business.

We understand that running a business is hard work. However, all your efforts could go to waste if an attack corrupts your data or harms your reputation. Unfortunately, most small-medium businesses struggle to prioritise cybersecurity, due to limited resources and technical capabilities.



That's why we've made it our quest to offer simple, affordable, and effective cybersecurity protection.



We want to be the watchtower that stands guard over your important data and systems, so that you can focus on your business goals. We assembled a team of cyber warriors with expertise in protecting large multinational corporations, global banks, critical utilities, and government agencies. Leveraging their knowledge and skills, we transformed our proprietary AI-driven analytics and advanced cyber tools to design a platform that fits your needs.

Let us protect your business and keep threats at bay.

Don't just take our word for it. Hear from others like you.

“ Compliance processes are difficult to design, challenging to implement, and tedious to upkeep. StrongKeep certainly has the potential to automate our compliance policies.”

Jensen Lake
Managing Director, SuccessIT

Powered by



Supported by



StrongKeep will remain free until the end of 2024.

Hackers aren't waiting—neither should you!

Sign up to get early access to our platform.

[Join the waitlist](#)



Say Hi and get in touch: hello@strongkeep.com
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What is StrongKeep?

StrongKeep
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- Dashboard
- Alerts
- Tasks
- Compliance
- Playbooks
- News
- Add Ons

Incident Response

Suspect your organisation is under a cyber attack? Don't worry, we can help.

Activate

Compliance
Cyber Essentials Mark

Your Progress: 68%

Assets

Secure / Protect

Respond

Backup

Update

View Details

Email Health
2 mail servers

Email Security Gateway: ✓

Mail Server Security: 75%

Mail Threat Detection: 12 (1-Aug-2024)

View Details

Website Health
2 website servers

Web Application Firewall: ✓

Web Server Security: 53%

Web Application Vulnerabilities: 5 (1-Aug-2024)

View Details

Endpoints & Network
62 endpoints & 2 networks

Anti-virus Solutions: ✓

Endpoint Protection Status: 62 (1-Aug-2024)

Network Detected Anomalies: 5 (1-Aug-2024)

View Details

Data Protection
62 endpoints

Data Loss Prevention: ✓

Data Loss Prevention Violation: 5 (1-Aug-2024)

Backup Status: 18 (1-Aug-2024)

View Details

Users & Credentials
58 users

User Training: 90%

Multifactor Authentication: ✓

Credential Leaks: 3 (1-Aug-2024)

View Details

Pending for your action

- Prepare a risk assessment for End-of-Support assets.
- Set processes to ensure secure and complete disposal of all assets.
- Start tracking all my hardware and software assets.
- Start tracking all my organisation's business-critical data.

View Details

Cyber News

- National Cyber Threat Alert Level
- Yakun's database breached
- New attacker: Midnight Blizzard
- Mac OS 16.1 software update

View All

StrongKeep
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- Dashboard
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Incident Response

Suspect your organisation is under a cyber attack? Don't worry, we can help.

Activate

Cyber Essentials

Overview | Scope | Security Measures | Document Library

- Equip your employees: Assets, Status: Completed
- Track all hardware and software: Assets, Status: Action required
- Protect business-critical data: Assets, Status: Action required
- Use anti-malware and firewalls: Secure / Protect, Status: Action required
- Secure with access management: Secure / Protect, Status: Action required
- Set security configurations: Secure / Protect, Status: Action required
- Update your software: Update, Status: Completed
- Back up essential data: Backup, Status: Completed
- Prepare incident response plan: Respond, Status: Action required

Clause A.3.4a

My organisation has an updated inventory list of business-critical data containing the details:

- Description
- Data classification and/or sensitivity
- Location
- Retention period.

Business-critical data includes confidential and sensitive data and personal data. The definition of data includes: 1) raw and unorganised facts such as number or text on paper, 2) bits and bytes stored in electronic memory, 3) system memory size, 4) employee names, 5) product names, 6) addresses, 7) costs of service.

Recommendation:
Include data classification and/or sensitivity and retention period for the respective types of business-critical data.

Action required:
Use the Business-Critical Data Inventory List template to start tracking your organisation's data.

[Business-Critical Data Inventory List template.docx](#)

Clause A.3.4b

Clause A.3.4c

Clause A.3.4d

Clause A.3.4e



QUESTIONS?

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