

# Cybersecurity Risk Management Strategy – Cheese! Pty Ltd

## Project Overview

This project involved designing a cybersecurity and risk management strategy for Cheese! Pty Ltd, a fictional small-to-medium enterprise expanding its operations to a second manufacturing site. The company required a secure network, protection of sensitive customer and business data, and resilience against emerging cyber threats. **Steps Undertaken**

- **Cybersecurity Strategy:** Developed a tailored strategy aligned with Australia's Cyber Security Strategy 2020, explaining the importance of strong governance and proactive planning.
- **Risk Assessment:** Identified major risks including malware, data breaches, insider threats, service disruptions, and data loss.
- **Risk Matrix:** Applied likelihood and impact analysis to prioritise risks for treatment.
- **Network Architecture:** Designed a secure architecture including web server, database server, routers, switches, and firewalls, and explained the security role of each component.
- **Security Controls:** Recommended measures such as:
  - Data encryption with a Key Management System (KMS).
  - Access controls based on least privilege and physical security.
  - Employee security awareness training (phishing/social engineering).
  - Regular system backups and disaster recovery provisions.

## Frameworks Applied

- **NIST Cybersecurity Framework (CSF):** Structured controls across Identify, Protect, Detect, Respond, Recover.
- **ISO 31000:** Applied principles of risk management in the risk assessment process.
- **Australia's Cyber Security Strategy 2020:** Referenced to align with national guidelines.
- **ACSC Guidance:** Used to contextualise recommendations for Australian SMEs.

## Skills Demonstrated

- Cybersecurity risk assessment and risk matrix development.
- Network architecture design for security and resilience.
- Application of global and national frameworks (NIST, ISO 31000, ACSC).
- Risk mitigation planning: encryption, access control, awareness training.
- Professional communication of technical solutions for business stakeholders.