



# CYBR 373 Presentation

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# Introduction

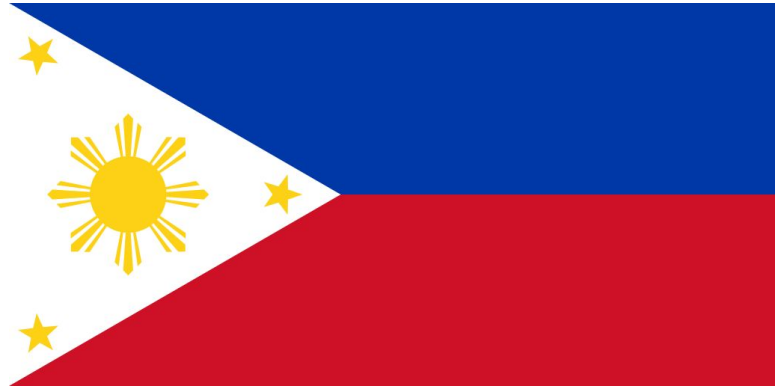
- Our organisation proposes transferring personal information from New Zealand to an overseas cloud provider in the Philippines.
- This presentation will go over the practical, legal and ethical implications of this proposal.

The implications include:

- Relevant New Zealand legislation, specifically the Privacy Act 2020.
  - How it applies here in New Zealand.
  - How it applies if data is transferred overseas.
- Respect and adherence to the Treaty of Waitangi, including Māori data sovereignty.
- Privacy legislation in the Philippines, including the Data Privacy Act of 2012.
- Privacy guidelines/frameworks/laws, including OECD, APEC, DPUP, ISO, GDPR.
- Ethics.
  - Consent to transfer data overseas.
  - Data ownership overseas.

## Choice of Philippines

- The Philippines was chosen over Namibia and Argentina.
- We believed that the Philippines had similar laws and conditions to New Zealand, informing our decision.



[https://commons.wikimedia.org/wiki/File:Flag\\_of\\_the\\_Philippines.svg](https://commons.wikimedia.org/wiki/File:Flag_of_the_Philippines.svg)

# New Zealand Context



Image Source: [https://commons.wikimedia.org/wiki/File:New\\_Zealand\\_23\\_October\\_2002.jpg](https://commons.wikimedia.org/wiki/File:New_Zealand_23_October_2002.jpg)



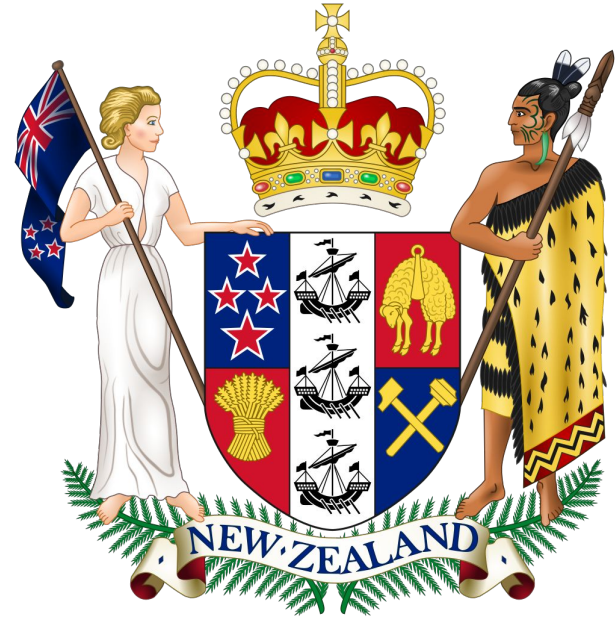
# Introduction to first section

This section will outline:

- New Zealand legislation that must be complied with for New Zealand cloud providers
- How New Zealand legislation applies if data is sent to an overseas cloud provider.
- Respect to and commitment to comply with Te Tiriti o Waitangi.

# Privacy Act 2020 (New Zealand)

- The primary piece of legislation New Zealand cloud providers must adhere to [1].
- Sections of it will apply if data is to be transferred to a foreign country [2].



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New\\_Zealand.svg](https://commons.wikimedia.org/wiki/File:Coat_of_arms_of_New_Zealand.svg)



# Privacy Act 2020 (New Zealand) Overview

- The act has 13 principles [1].
- Some of the requirements in the principles include:
  - Only necessary personal information should be collected for lawful purposes [3].
  - Only collect information from the person it is about [4].
  - Must inform the person why information is collected [5].
  - Safeguards must be put in place to protect the information [6].
  - People can ask to view [7] or correct [8] their information.
  - Before an organisation uses data, reasonable steps must be taken to ensure information is accurate and not misleading [9].
  - Specific requirements for disclosing data overseas [2].



## Privacy Act 2020 when transferring data overseas

- Information Privacy Principle 12 is concerned with sending data overseas [2].
- We determined that transferring data to a foreign cloud service was not covered under principle 12, based on a decision tree tool, unless the cloud service was to use the data for their own purposes [10].



# Te Tiriti o Waitangi and Maori Data Sovereignty

- Respect and adherence to Te Tiriti o Waitangi (The Treaty of Waitangi) is important.
- Data is a taonga (treasure) [11].
- Māori must have input and leadership in data decisions [12].
- If Māori do not have control over their data, it is hard for that data to bring benefits [12].
- Māori data sovereignty is also concerned with how government legislation affects the storage and use of Māori data [12].

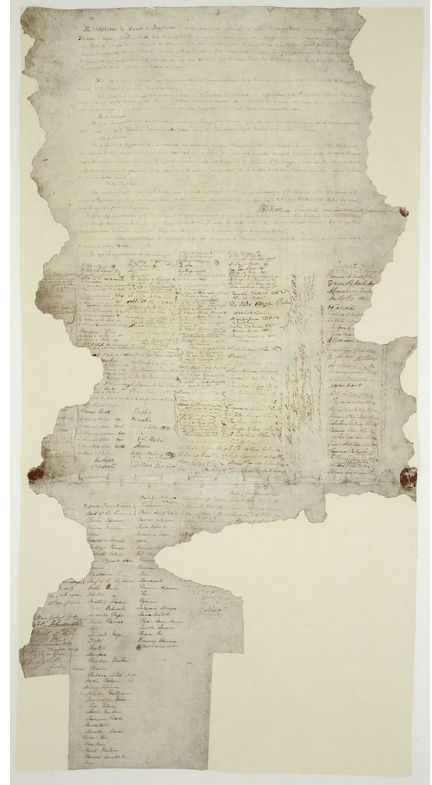


Image Source:  
<https://en.wikipedia.org/wiki/File:Treatyofwaitangi.jpg>

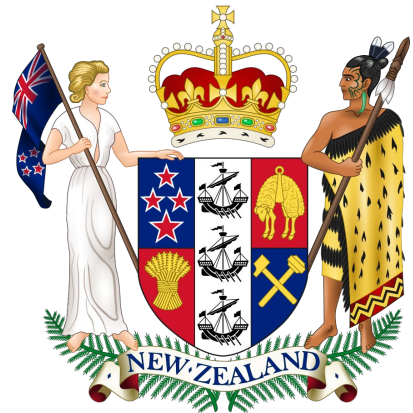


# **Laws and regulations to consider for New Zealand, Philippines, and internationally**

# New Zealand Privacy Act 2020

- As stated before [13]
- Precautions in place so that foreign company adheres to this Act adequately
- Must notify Privacy Commissioner of data breaches, and those whose information has been breached
- \$10,000 for failure to disclose and failure to comply with order

Is PH law similar?





## Data Privacy Act of 2012 (PH)



[14] Personal Information: immediate identification, or identification in conjunction with other information

Sensitive personal information:

- Race, ethnic origin, marital status, age, colour, and religious, philosophical or political affiliations
- Health, education, sexual information, criminal offences committed or alleged, and details of law proceedings
- Government-issued information, such as social security number, health records, licences issued and denied, tax returns, etc.
- Information classified by the Filipino government.

(NZ personal information: information about an identifiable individual; sensitive personal information determined at time of data breach)



# Data Privacy Act of 2012 (PH)



## Processing

- Explicit purpose
- Fairly and lawfully
- Obtained only with consent
- Accurate, relevant to the purpose ONLY, and kept up to date
- Retained only for as long as necessary for the purpose

Sensitive personal information is **illegal** to process **without** explicit consent of the person that the information is being collected on.



# Data Privacy Act of 2012 (PH)



## Storage

- “Organisational, physical and technical measures” to avoid unlawful or accidental disclosure, alteration or destruction.
  - Computer network
  - Security policies
  - Regular monitoring
  - Incident response
- Third-party compliance
- Entitlement to copy of data if requested



# Data Privacy Act of 2012 (PH)

## Transfer

- Sensitive personal information is illegal without consent
- Necessity to comply with law as a third-party





# Data Privacy Act of 2012 (PH)



## Data breaches

- Report to National Privacy Commission
  - Nature of breach
  - Any sensitive personal information involved
  - Measures taken to address breach
- Imprisonment and fines for personal and sensitive personal information breaches
  - Unauthorised processing (purposes, consent)
  - Access due to negligence
  - Improper disposal
  - Concealment of security breaches involving sensitive personal information
  - Unauthorised disclosure





# OECD Guidelines on the Protection of Privacy and Transborder Flows of Personal Data

- Must follow as part of OECD [15]
- Consent, limited collection, lawful
- Purpose, relevance, accuracy
- Security to prevent loss, unauthorised access, usage, destruction and modification
- User access to copies, reasons for denial, and challenge
- Disclosure and transfer only with consent of subject and according to law



# APEC Privacy Framework

- NZ and PH part of APEC [16]
- Non-mandatory
- 9 Principles
  1. Preventing harm
  2. Notice
  3. Collection limitation
  4. Use of personal information
  5. Choice
  6. Integrity of Personal Information
  7. Security safeguards
  8. Access and Correction
  9. Accountability



**Asia-Pacific  
Economic Cooperation**

<https://www.apec.org/about-us/about-apec/apec-logo-use>

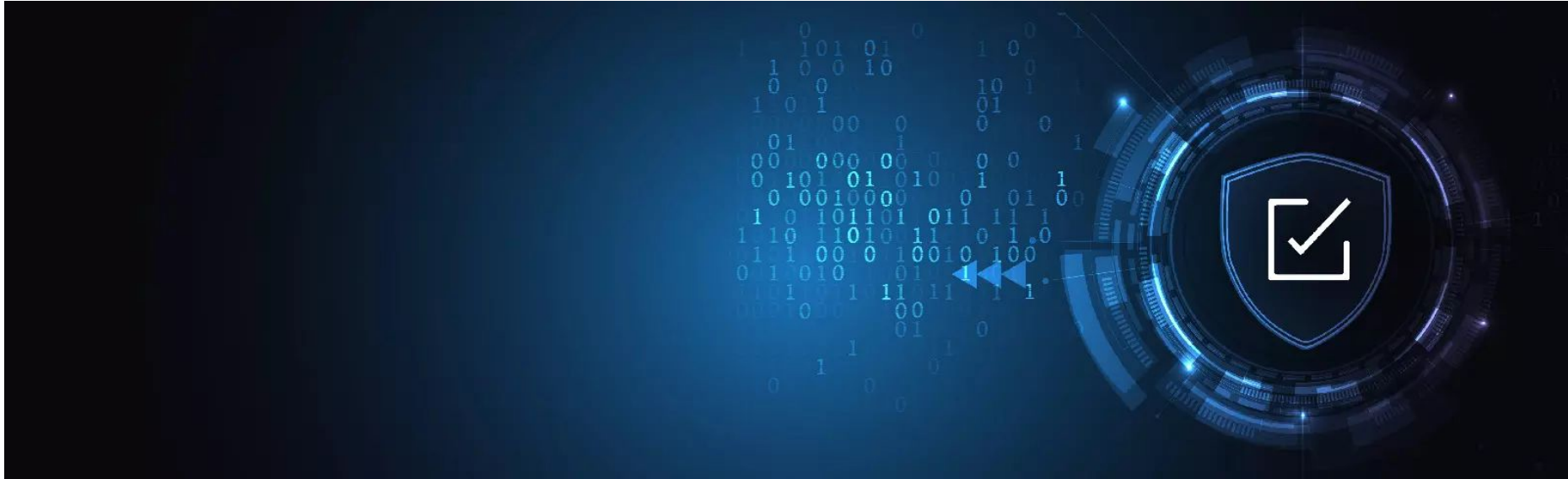
# Data Protection and Use Policy (DPUP) (NZ)

- Non-mandatory but encouraged, endorsed by Cabinet [17]
- 5 Principles
  - He Tāngata
  - Manaakitanga
  - Mana Whakahaere
  - Kaitiakitanga
  - Mahitahitanga
- 4 Guidelines
  - Purpose matters
  - Transparency and Choice
  - Access to information
  - Sharing value





# Standards, Frameworks, Guidelines, Certifications



# Country Selection and Alignment with International Standards

Why alignment matters?

- Ensures consistent data security and privacy practices across borders.
- Protects sensitive customer information, regardless of where data is processed or stored.

Key benefits of Alignment with Global Standards?

- Mitigate risks (e.g. data breaches, cyber-attacks).
- Meets New Zealand's obligations and supports safe cross-border data transfers.
- Reduces operational risks and ensures business continuity without compromising data integrity.



# Compliance with Privacy and Data Standards

New Zealand Privacy Act 2020 [18]

- Ensures strict privacy requirements for handling personal data.

Data Sovereignty Obligations

- Offshore storage in the Philippines must align with NZ Privacy Standards.
- Protects sensitive data regardless of storage location.

Maintaining Data Integrity and Availability

- Cloud providers must comply with both local regulations and global frameworks.
- Examples: ISO Standards [19] and GDPR [20] principles to support privacy and security.



# What is GDPR?

- Is a EU Data Protection Regulation that aims to protect personal data.
- Is implemented in the Philippines for enhanced data privacy.
- Benefits to Philippines Organizations:
  - Improved transactions with EU businesses [21].
  - Enhanced data privacy and transparency measures.
- Global Influence:
  - Has driven countries, including the Philippines, to enhance their data privacy regulations [21].
  - Regarded as a significant change in data privacy regulation in 20 years [21].



<https://www.loginradius.com/compliance-list/gdpr-compliant/>

# GDPR: Relevance to New Zealand

- **Applicability of GDPR**
  - It does not apply within New Zealand but is relevant for international data transfers [22].
- **Compliance Obligations**
  - New Zealand agencies likely to align with GDPR obligations via the New Zealand Privacy Act [23].
  - Ensures consistent privacy standards for both domestic and international data handling.
- **Building Trust and Security:**
  - Enhances trust and security for organizations managing data across borders.



<https://www.loginradius.com/compliance-list/gdpr-compliant/>



# GDPR: Selecting Cloud Providers and Ensuring Compliance

- Importance of GDPR Alignment
  - Selecting cloud providers in the Philippines that align with GDPR principles demonstrates commitment to best practices.
- Assurance of Data Protection:
  - GDPR-aligned providers reassure high international standards for data protection.
- Significance of Compliance:
  - Philippines adoption of GDPR principles highlights global recognition of data privacy standards [24].
  - Maintains data integrity and supports safe cross-border data transfers, critical for organizations storing or processing New Zealand data abroad.



<https://www.loginradius.com/compliance-list/gdpr-compliant/>

# Importance of ISO/IEC Standards

ISO/IEC frameworks offer internationally recognized guidelines for cloud providers [25]. Benefits of ISO/IEC implementation in cloud services include:

- Risk Management
- Protection of Sensitive Information
- Compliance



<https://www.china-gauges.com/news/What-are-the-main-differences-between-ISO-standards-and-IEC-standards.html>

# ISO/IEC 27001 - Information Security Management

Focuses on establishing, implementing, and continuously improving an Information Security Management System (ISMS) [26].

## Key Objectives [26]

- Data Confidentiality
- Data Integrity
- Data Availability

## Benefits of Compliance [26]

- Risk Reduction
- Client Assurance
- Regulatory Compliance



<https://zenphi.com/security/iso-iec-27001-compliance/>

# ISO/IEC 27017 - Security Controls for Cloud Services

27017 standard that provides cloud-specific security controls building on ISO 27001 [27].

What it Provides [27]

- Guidance for mitigating risks.
- Enhanced data security controls in cloud infrastructure.
- Clear guidance on shared responsibility.
- Protection against unauthorized access and data leakage.



<https://www.exoscale.com/compliance/iso27017/>

# ISO/IEC 27018 - Protection of Personally Identifiable Information in the Cloud

27018 standard focuses on the privacy and security of personally identifiable information (PII) in cloud environments [27]

What it Provides [27]

- Measures to protect personal data in compliance with privacy laws and regulations.
- Strengthens customer trust by ensuring data privacy.
- Demonstrates the cloud provider's ability to handle personal data securely.
- Helps align with privacy regulations such as GDPR, New Zealand's Privacy Act and the Philippines Privacy Act.



<https://www.akamai.com/legal/compliance#iso27018>

# ISO/IEC 27701 - Privacy Information Management System (PIMS)

27701 framework builds upon ISO/IEC 27001 and 27018 to focus on privacy management and regulatory compliance [28].

What it provides [28]

- Controls to manage data risks
- Compliance with privacy laws
- Structured approach to managing privacy risks
- Outputs for demonstrating compliance with privacy regulations
- Accountability



<https://principledefence.com/product/iso-iec-27701-privacy-information-management-system>

# SOC - Service Organization Control

SOC is a certification that provides internationally recognized auditing guidelines for assessing controls, processes, and systems of service organizations, including cloud providers.

Provides assurance to clients, vendors, and regulators that a provider operates securely and complies with relevant standards.



<https://envoy.com/workplace-compliance-security-safety/visitor-management-and-soc-2-compliance-what-you-need-to-know>

# SOC 2 Certification

SOC 2 covers security, availability, integrity, confidentiality and privacy of cloud providers [29].

## Key Benefits of SOC 2 Certification [29]

- Demonstrates trustworthiness to customers, vendors, and stakeholders [30].
- Ensures secure handling of data throughout the service lifecycle.
- Supports regulatory compliance by maintaining high levels of data integrity and security [30].



<https://envoy.com/workplace-compliance-security-safety/visitor-management-and-soc-2-compliance-what-you-need-to-know>



# CSA STAR Assessment

CSA STAR -> Security, Trust, Assurance and Risk[31]. Certification Builds on ISO/IEC 27001 but focuses on cloud specific risks [32].

## Level 1: Self-Assessment [32]

- Provider conducts a self-assessment to provide insight into their cloud security policies.

## Level 2: Third-Party Audit [32]

- A third-party audit verifies compliance with ISO standards and cloud-specific security controls from the Cloud Controls Matrix (CCM).

## Key Benefits:

- Trust that data is securely managed in compliance with global security standards.
- Reduces risks associated with cloud storage.
- Ensures alignment with New Zealand's privacy requirements and enhances confidence in cross-border data management.



<https://www.cloudcarib.com/2023/01/13/cloud-carib-earns-csa-star-certification-one-of-six-companies-globally/>

# Ethical considerations and responses



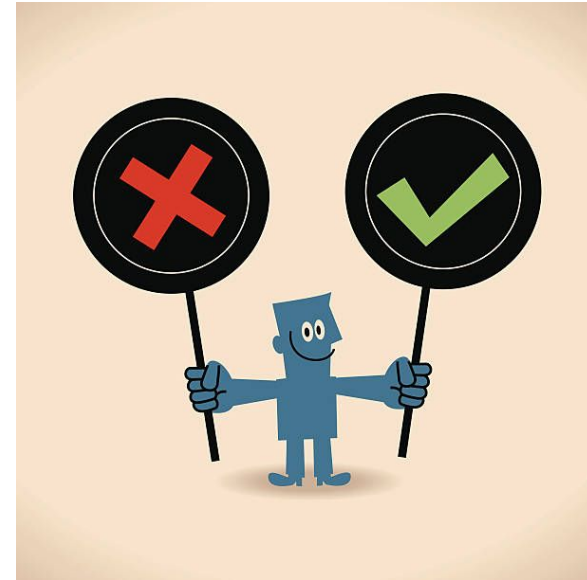


## Ethics of not having consent to transferring data offshore

- Our customers have a right to know where their data is, and where it moves to whenever there is a change.
- If we do not inform our customers on where the data is relocated to, this takes away their ethical right to make informed decisions with their data.
- This may cause problems for our organisation. We may lose trust and may lose revenue

## Response to having no consent of transferring data offshore

- Follow the OECD guideline for transferal of data offshore that states “It should not be disclosed without consent of the subject”.[15]
- Follow Data Protection Use Policy (DPUP) principle of Manaakitanga which is showing people respect on which data is collected.[16]
- Ask our customers consent to transfer the data offshore, this shows Manaakitanga to them
- If they say yes, we continue. Otherwise store their data in a local database in New Zealand
- Stay transparent with our customers



<https://www.istockphoto.com/photos/asking-permission>

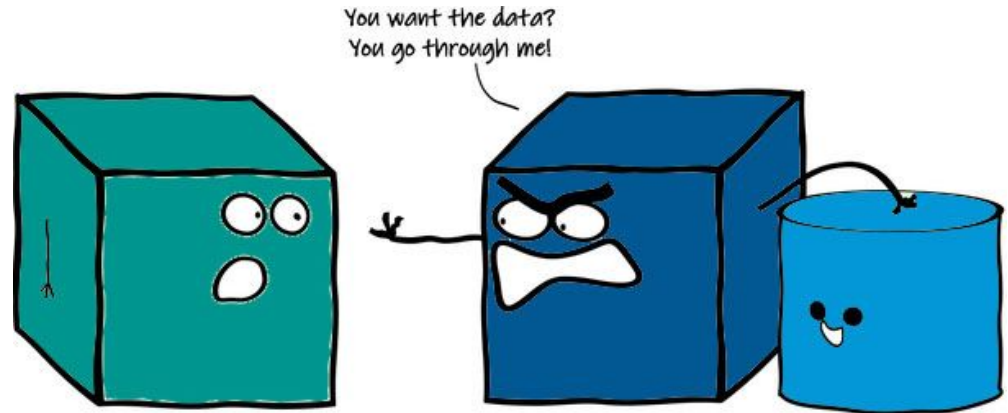


# Ethics of data ownership within the cloud

- Terms and services can mean the cloud provider becomes the owner
- Customers should always be the owner of their data
- If the cloud provider runs algorithms and manipulates data
- Question: Who owns this newly manipulated data?
- Accessibility, modification and what happens with their data most likely will be revoked

# Response to data ownership in the cloud

- Follow the Data Protection Use Policy principles of Mana Whakahaere and Kaitiakitanga.[16]
- Create a Data Processing Agreement (DPA) that states these main points:
  - What type of data is it?
  - How to process the data?
  - Security measures?
  - Confidentiality
  - Liabilities to be taken
  - Termination of the DPA
- Have backups





# Conclusion

## Decision:

- Based on our research, we believe it is safe and appropriate to transfer personal information to a Filipino cloud provider in February 2025.
- This is based on legal, ethical and other aspects researched.
- Filipino data privacy laws are similar to New Zealand, helping to guarantee safety of the data.
- It is legal in New Zealand to transfer data to an overseas cloud provider.
- International and local standards and frameworks ...
- We have assessed it is ethical to transfer the data to an overseas cloud provider.
- We believe we should notify customers that their data is being outsourced to a different country, even though it is not required under New Zealand law for our particular circumstances.



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