



# Cloud-Computing and Protecting Privacy



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# Cloud-Computing and Protecting Privacy

## Agenda

Step 1 – *What is Cloud Computing?*

Step 2 – *What are the basic FOIP Rules?*

Step 3 – *What are the MRU Best Practices?*

- ❖ ***Contract requirements – Legal Services***
- ❖ ***IT security requirements – ITS***
- ❖ ***Privacy Impact Assessment (PIA's) – FOIP Office***





# Cloud-Computing and Protecting Privacy

## What is Cloud-Computing?

- *Refers to the delivery of scalable IT resources over the Internet as opposed to hosting and operating those resources locally through the Mount Royal network (Wikipedia)*
- *These resources can include applications and services as well as the infrastructure on which they operate.*



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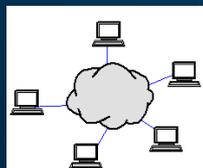
## What is Cloud-Computing?

- *In “The Cloud” there are networks of computers that run applications and store data.*
- *Typically the computers are located in another country - (often leads towards privacy legal implications)*
  - *US Patriot Act (2001)*
  - *Foreign Intelligence Surveillance Act (1977)*
- *Local computers interface with the cloud network*
- *Organizations will purchase IT resources on as-needed basis to save costs.*



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## What is Cloud-Computing?





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## What is Cloud-Computing?

- *BC and Nova Scotia Privacy Laws dictate that all public bodies **must** store personal information in Canada. [\*Alberta FOIP Act does not specify]*

### *Relevant Lawsuits*

- *July, 2010 – Winnipeg – Class action privacy lawsuit against Facebook. Facebook used PI for commercial purposes*
- *Sept, 2010 – California – Google (Buzz) settles lawsuit for \$8.5 million. Google made PI public*
- *May, 2011 - Best Buy (Epsilon Marketing) 2,500 Clients – privacy breached, personal information hacked (stored data not encrypted)*
- *June, 2017 – BC – Women sues Facebook for its use of her name and profile photo in ad's she clicked "like" on. (Endorsing company)*





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## What are the basic FOIP Rules?

- *The FOIP Act provides the rules on how public bodies (MRU) must collect, use, disclose and protect personal information (PI).*
- **Collection**: *Public bodies may only collect PI when the info relates directly to and is necessary for an operating program or activity. (demonstrable need)*
- **Collection**: *Public bodies must generally collect PI directly from the individual the info is about and provide them a FOIP Notification Statement.*





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## What are the basic FOIP Rules?

- *The FOIP Act provides the rules on how public bodies (MRU) must collect, use, disclose and protect personal information (PI).*
- ***Use/Disclose**: Public bodies may only **use/disclose** personal information for the purpose for which the PI was collected or compiled or for a use consistent with that purpose. **FOIP Notification Statement***
- ***Protection**: Public bodies **must protect** PI by making reasonable security arrangements against such risks as unauthorized access, collection, use, disclosure or destruction.*



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## MRU Best Practices – Contract Requirements

- *MRU (Legal Services) must ensure that vendors handling MRU's identifiable PI are contractually obligated to follow FOIP principles.*

FOIP Requirement	Description
Data Ownership	MRU <u>owns the data</u> disclosed to the vendor.
Collection/Use/Disclosure	The Vendor may <u>only use</u> MRU's data in order to fulfill the services outlined in the agreement. (e.g. No Marketing - CASL)
Protection	The Vendor will make <u>reasonable security arrangements</u> to protect MRU's data.
Breach Notification Compelled disclosure (US)	The Vendor will, as soon as practicable, <u>notify MRU</u> when they become aware of an unauthorized access, collection, use, disclosure or destruction of MRU's data.
Termination	Upon termination of agreement, the Vendor <u>will provide a copy</u> of the MRU's data and then delete MRU's data after [#] of days. The Vendor will also provide a certificate of destruction.



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## MRU Best Practices – IT Security

- *MRU (ITS) must ensure that vendors handling MRU's identifiable PI are securely stored.*

ITS Security Requirement	Description
Web transmissions (https)	Vendor website uses <a href="#">(https) Hypertext Transfer Protocol Secure</a> . The https ensures that transmitted data is encrypted.
Single Sign-On (SSO)	The Vendor allows granular level access to information based on <a href="#">username/password</a> . Either based on <a href="#">@mtroyal.ca</a> login or otherwise.
Administrator Rights	The Vendor System provides for a database <a href="#">Administrator role</a> , who can manage MRU data. (Create/Delete/Edit/Manage)
Database encryption	The Vendor System (database) is <a href="#">encrypted</a> (at rest).
Service Level Agreement (Catastrophic Disruption)	The Vendor is contractually obligated to ensure that their system will be running <a href="#">99.9%</a> of the time.
Security Certifications (Audits) -firewalls -24/7 monitoring -vulnerability testing -Anti-virus	The Vendor's security controls have been audited by a third party and has obtained a security certificate. <a href="#">(SSAE 16, ISO27001, PCI, etc)</a> <a href="#">Statement on Standards for Attestation Engagements</a>



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## MRU Best Practices – FOIP Office

- *MRU (FOIP Office) must ensure that vendors handling MRU's identifiable PI are securely stored.*

PIA Documentation	Description
Legal authorities	Check that the <a href="#">collection/use/disclosure</a> of PI is allowed under the FOIP Act.
Contract Details	Document the articles contained in <a href="#">the contract</a> to prove that steps were taken to control how the vendor will <a href="#">collect/use/disclose/protect</a> MRU's PI.
IT security details	Document Vendor <a href="#">IT Security</a> processes.
Operational processes	Make recommendations for the new business process. -Records Retention Periods -Limiting type <a href="#">(sensitivity) of PI</a> being requested. -Draft <a href="#">FOIP Notification Statements</a>



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## MRU Best Practices – FOIP Office

### *How to submit a PIA...*

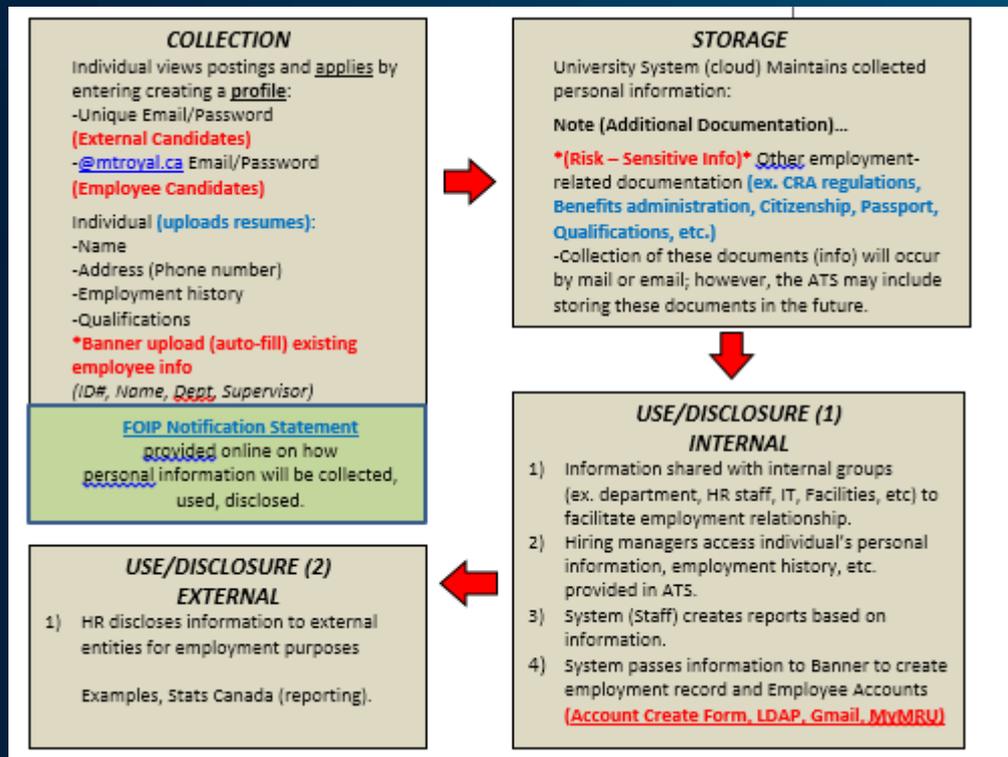
- (1) Access PIA Template on <L:\foip\FOIP Forms>
- (2) Fill out **(Section A) Overview of Project and Benefits**
- (3) Fill out **(Section D) Information Flow Chart**
- (4) Submit to [jgduffin@mtroyal.ca](mailto:jgduffin@mtroyal.ca)



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## MRU Best Practices – FOIP Office

### How to submit a PIA (Section D – Information Flow)...





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## MRU Best Practices – Tips

- ✓ *Determine what personal info (level of sensitivity) and how much will be stored in the cloud?*
- ✓ *Determine how a **FOIP Notification Statement** will be provided prior to the collection of personal information?*
- ✓ *Send the contract for legal review.*
- ✓ *Check with ITS concerning the vendor IT security.*
  - \**Vendors that have a **security certification** are preferred.*
  - \**A **higher level of info sensitivity** will require stronger security measures. (Health info, banking info)*
- ✓ *Submit your draft PIA to the FOIP Office*



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Questions?