

# Data Behind Walls

## IT Security

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## IT Security Policies

“All members of the Queen's community have a responsibility to preserve the integrity and reliability of the University's IT infrastructure, and the confidentiality of valuable or sensitive information”

- <http://queensu.ca/cio/information-systems-security-office>
- <http://queensu.ca/cio/information-systems-security-office/standards/data-classification-scheme>



## Why protect the data?

- Privacy legislation
- Internet rules
- Queen's policy
- Anti-spam legislation
- It's in your best interest



## Common Misconceptions

- It will never happen to me.
- Nothing I work with is sensitive.
- My computer is password protected.
- Keeping my backup with me is safe.
- My system has no vulnerabilities.

## IT Security Methods

- Secure the room
- Secure the network
- Secure the data
- Secure the endpoint
- Secure the application



## Securing the Room

- Physical access control
- Special build of the room
- Alarm systems
- Camera surveillance
- Security guards
- Visitor management



## Securing the Network

- Firewalls
- Segregated network
- Intrusion protection/detection server (IPS)
- Network Access Control (NAC)
- Active monitoring with triggers
- Cabling
- Encrypted wireless

## Securing the Data

- Authentication
- Encryption
- Access control lists
- Antivirus/Antimalware
- Backup/Archive
- Data in Data Centres



## Secure the Endpoint

- Multifactor access
- Managed devices
- Terminals
- Physically locked
- Disposal
- Logging
- Vulnerability assessment



## Secure the Application

- Multifactor access
- Patching/upgrading
- Logging
- Vulnerability assessment
- Encrypted tunnels

## Where to Start?

- <http://queensu.ca/cio/information-systems-security-office>
- Call ITS support for assistance @36666.
- Take the ITS security awareness training, online ITS tutorials
- Stop and report suspicious e-mails, abnormal requests, or system behavior
- Encrypt laptops and portable devices such as USB keys
- Backup data

