



DATA PRIVACY: How Cooperatives Protect Their Data Online

08 SEPTEMBER 2020, TUESDAY

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Cyber Security News Trends

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SECURITY & FRAUD

Data Breach Impacts 4.2M Members Of Canadian Cooperative

By PYMNTS  

Posted on November 6, 2019



Data Breach Impacts 4.2M Canadian Co-op Members

Watch later Share

The Canadian cooperative **Desjardins Group** has revealed that a data breach impacted all its **4.2 million** members.

Cyber Security News Trends

Millions of personal data compromised in the first half of 2019: Top level government agency hacked

Published August 24, 2019, 12:00 AM
by [manilabulletin_admin](#)

Data breaches in the Philippines show no sign of slowing down. In the second half of the year, cybersecurity enthusiasts from government and private sectors are sharing data and ideas to lessen the impact of these breaches.



The **JFC Credit Cooperative** was breached of **more than 7,000 records** of employees

In 2018, the National Privacy Commission ordered Jollibee to stop its delivery service due to possible data leakage, until now, the service is still down. Early this year, the JFC Credit Cooperative was breached with more than 7,000 records of employees that include scanned company and government IDs.

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PERSONAL

BUSINESS

MORTGAGE

MEMBER RESOURCES



NEWS: EQUIFAX DATA BREACH INFORMATION

As you may have heard, Equifax experienced a significant data breach in one of their web application programs, exposing the personal information of some U.S. consumers, including confidential personal data like Social Security numbers.

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Cyber Security News Trends

CO-OPERATIVE BANKS- A CYBERSECURITY DISASTER WAITING TO HAPPEN

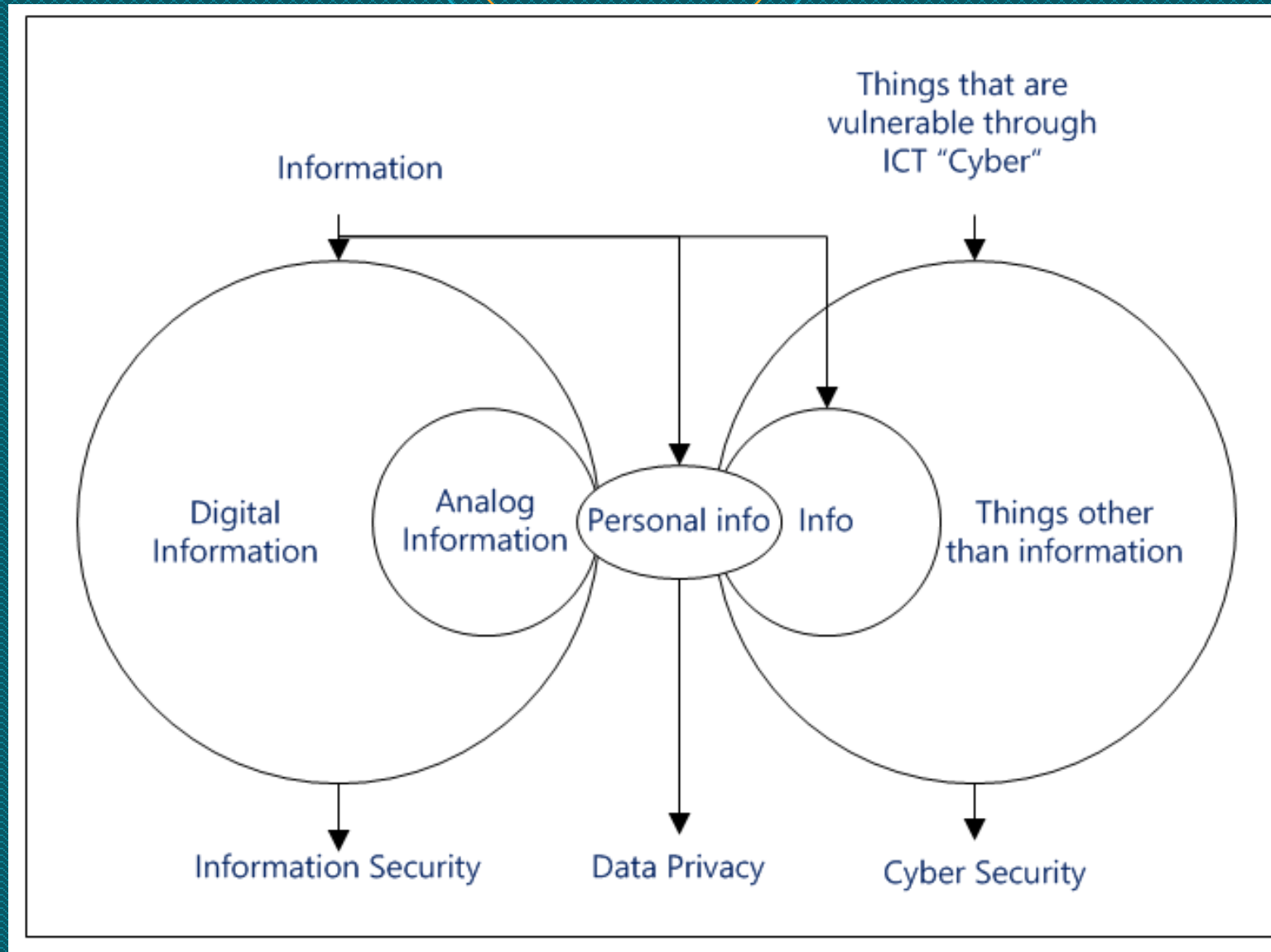
CYBERSECURITY LATEST NEWS

May 18, 2020



In late 2018, **Cosmos Bank**, India's second largest co-operative bank, bore the brunt of weak cybersecurity measures, when hackers siphoned off over Rs. 94 crore through a malware attack on one of its servers.

THE SECURITY LANDSCAPE



2012 legislation

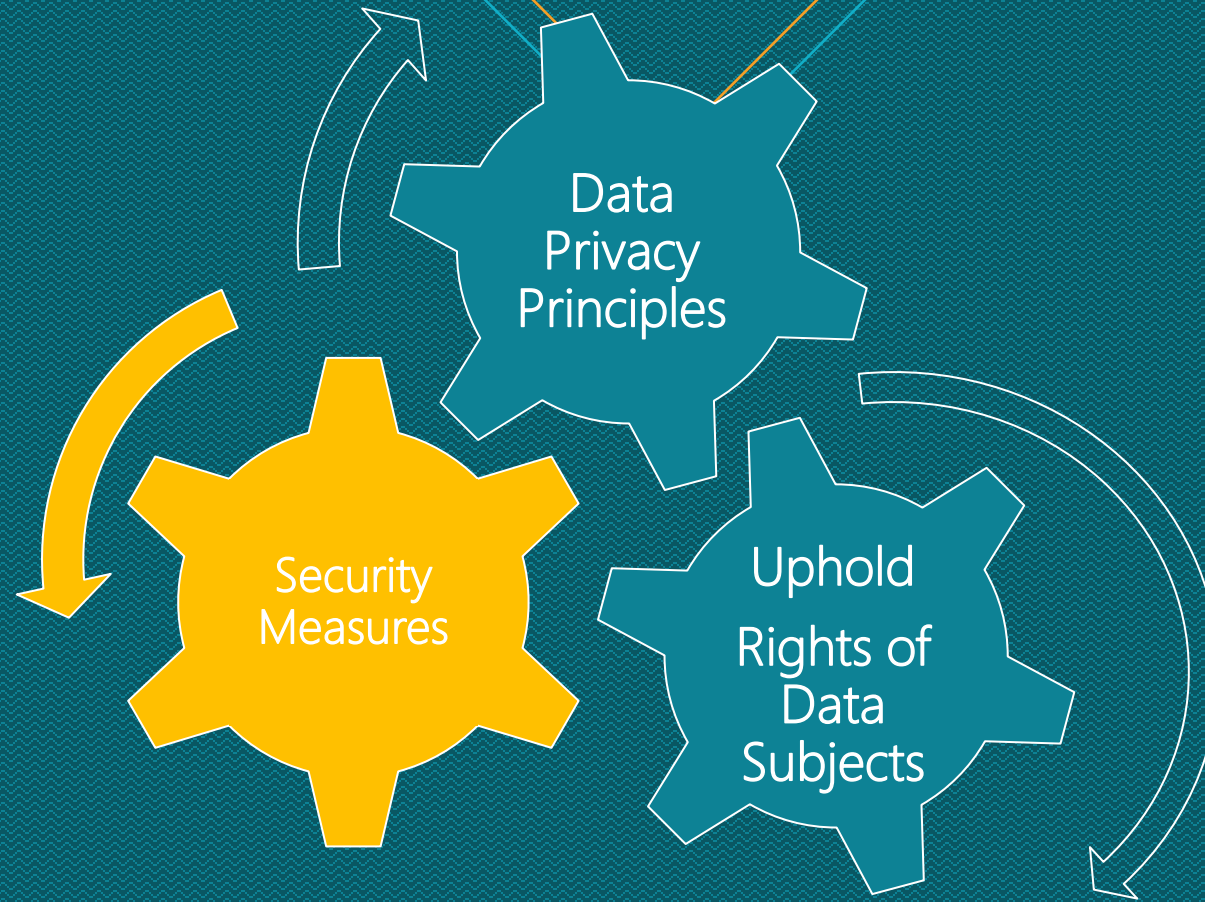
Data Privacy
Act

Cyber Crime
Prevention
Act



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The Data Privacy Act of 2012





☐ Security Measures

- ☐ Organizational
- ☐ Physical
- ☐ Technical

Personal Data

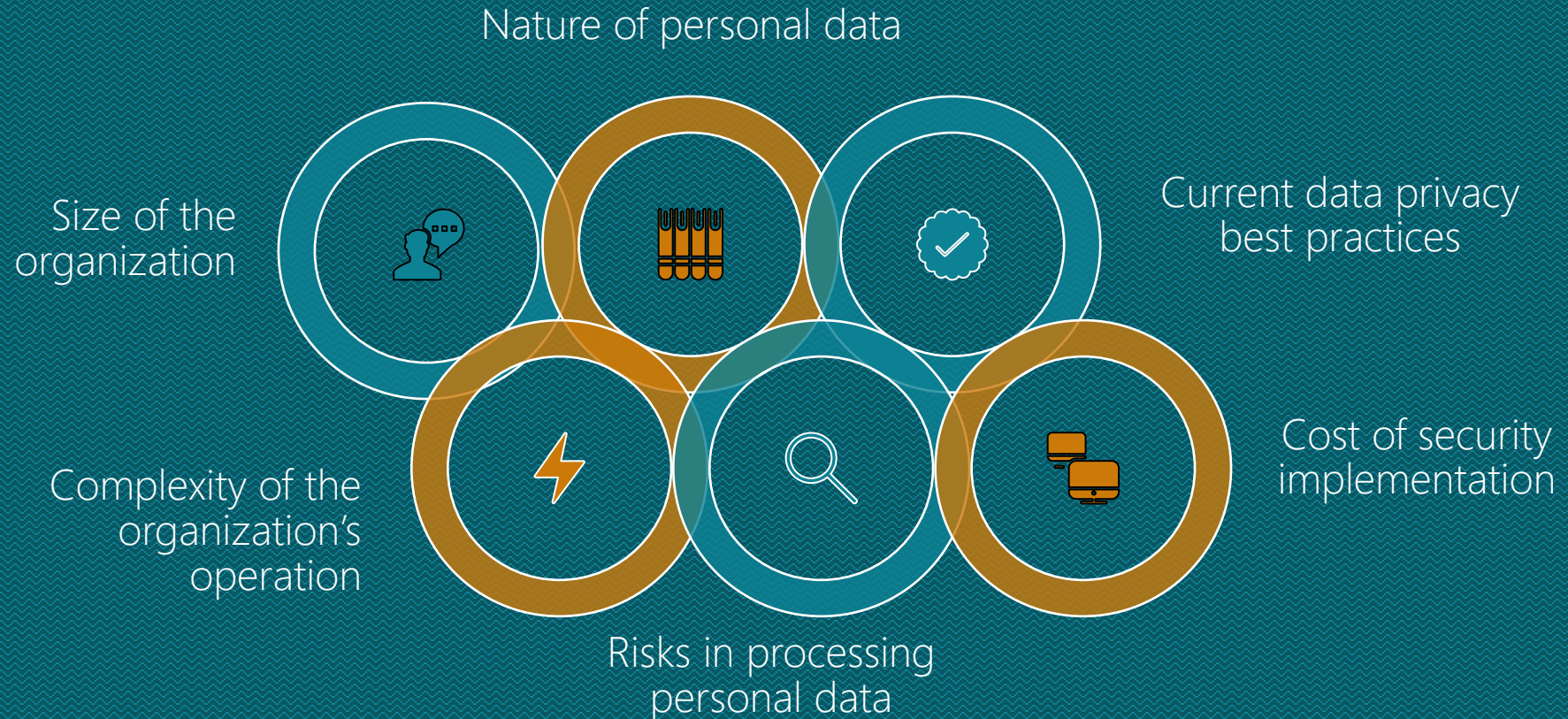
- ☐ Confidentiality
- ☐ Integrity
- ☐ Availability



-against any accidental or unlawful destruction, alteration, and disclosure, as well as against any other unlawful processing

Appropriate level of Security Controls

Consider the following:





Organizational Security Measures

Accountable Officers for Security

RULE #1



Commit to Comply:
Appoint a **Data Protection Officer (DPO)**.

Personal information controllers and personal information processors are required to appoint or designate a **data protection officer** or compliance officer. DPOs will be accountable for ensuring compliance with applicable laws and regulations relating to data protection and privacy.

Data Protection Officers (DPO)

NPC

GCERT

The Cybersecurity Officers (CYSO) shall create an organization headed by the chairman to be elected among member agencies. The chairman shall report to DICT on a regular basis.

DICT MEMORANDUM
CIRCULAR 006

Cyber Security Officers (CySO)

DICT



Chief Information Security Officers (CISO)

BSP



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Upskilling Cyber Security

ANALYZE RISK



**CONDUCTING SECURITY
ASSESSMENTS**



**IMPLEMENTING NETWORK
SECURITY**



**IMPLEMENTING OPERATIONAL
SECURITY**



**ADDRESSING SECURITY
INCIDENTS**



IDENTIFY SECURITY THREATS



**IMPLEMENTING HOST &
SOFTWARE SECURITY**



**MANAGING IDENTITY &
ACCESS**



**IMPLEMENTING
CRYPTOGRAPHY**



**ENSURING BUSINESS
CONTINUITY**

**Security
Skillset**



PROCEDURE

RECORDS MANAGEMENT OPERATIONS MANUAL

PRIVACY MANUAL

PERSONAL DATA BREACH PROCEDURE



PROCEDURES, WORK INSTRUCTIONS, MANUALS

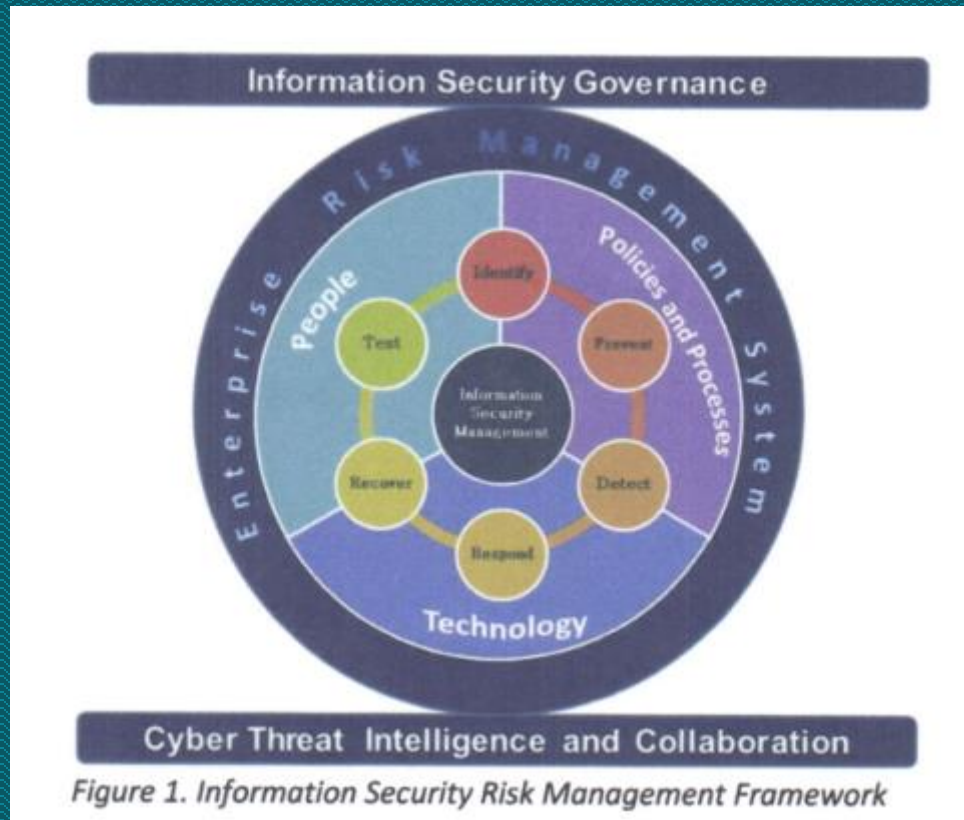


Information Security Audit

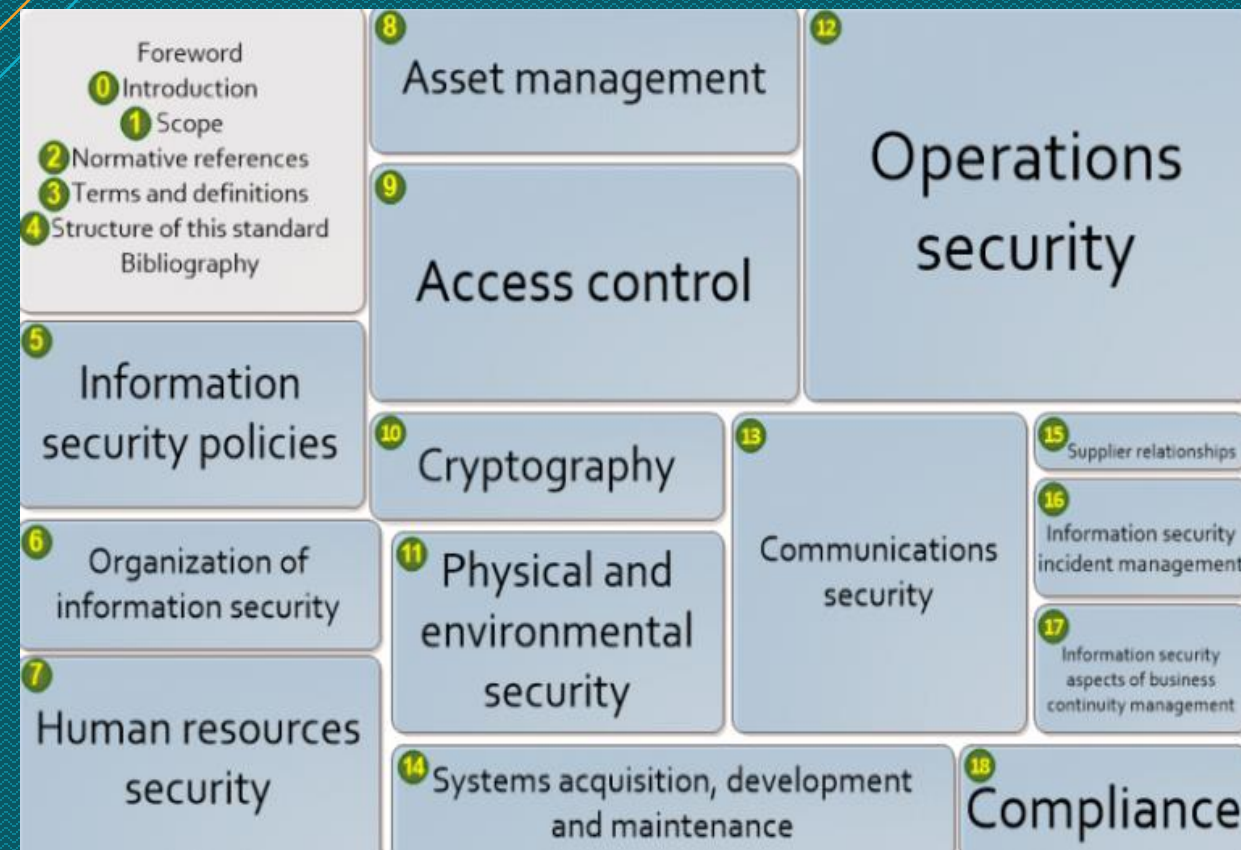
- Conduct of regular Information Security Audit will improve Governance and management of your system.
- Provide better understanding of information and the system where the information resides.
- Improve Governance over all system data.
- The key word is **UNDERSTANDING**.

"Managing the unknown will lead to less than optimal data quality."

FRAMEWORKS, STANDARDS



BSP INFORMATION SECURITY RISK
MANAGEMENT FRAMEWORK



ISO/IEC 27002

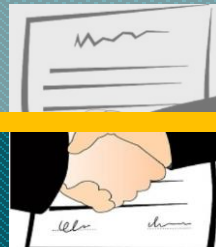
NON-DISCLOSURE AGREEMENTS



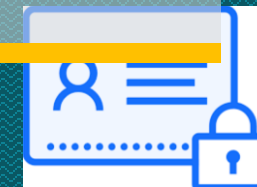
ACCEPTABLE USE POLICY



MOA/MOU



PRIVACY POLICY



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POLICIES, THIRD-PARTY AGREEMENTS



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2024 DPO BRIEFING

NATIONAL PRIVACY COMMISSION

PICC Complex
5th Floor West Wing, Dela Rosa Building, PICC Complex, Asean Boulevard

Schedule

March	5 & 12
April	11 & 18
June	6 & 11
July	4 & 11
August	5 & 12
September	3 & 10
October	8 & 15
November	7 & 14

Half-day, choose AM or PM session

RESERVE YOUR SLOTS NOW!
Email us at dpoinfo@privacy.gov.ph
DPO Briefing Reservation

PARTICIPANTS IN PREVIOUS DPO BRIEFINGS NEED NOT ATTEND

ANNOUNCEMENT

Participants in the 1st Digital Data Governance Conference for the Public Sector (held last May 24) may now take that:

DPO ACE PROGRAM

LEVEL 1

Certification Exam

Choose your preferred session:

June 14, 26	10AM-12NN
July 3, 5, 10, 12	10AM-12NN or 2PM-4PM

- Only 40 slots available per session (am or pm)
- Reserve your slot at dpoinfo@privacy.gov.ph
- Exam Venue: NPC Office

FOR QUESTIONS CALL ☎ 234-2228 loc. 124



MANAGEMENT OF HUMAN RESOURCES CULTIVATE AWARENESS

RISK ASSESSMENTS

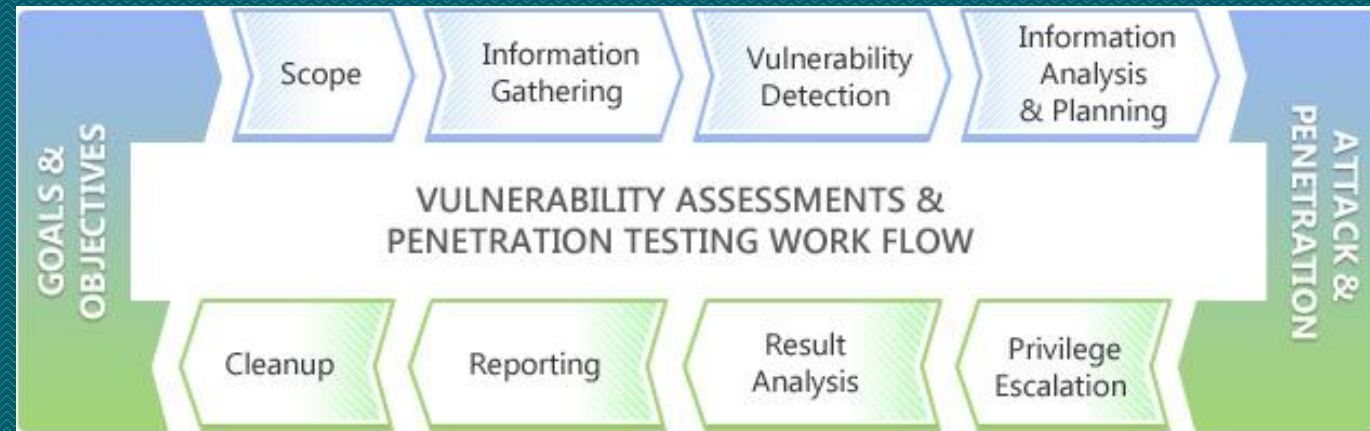
RULE #2



Know Your Risks:
Conduct a **Privacy Impact Assessment (PIA)**.

A **Privacy Impact Assessment (PIA)** is a process undertaken and used by a government agency to evaluate and manage the impact of its program, process and/or measure on data privacy.

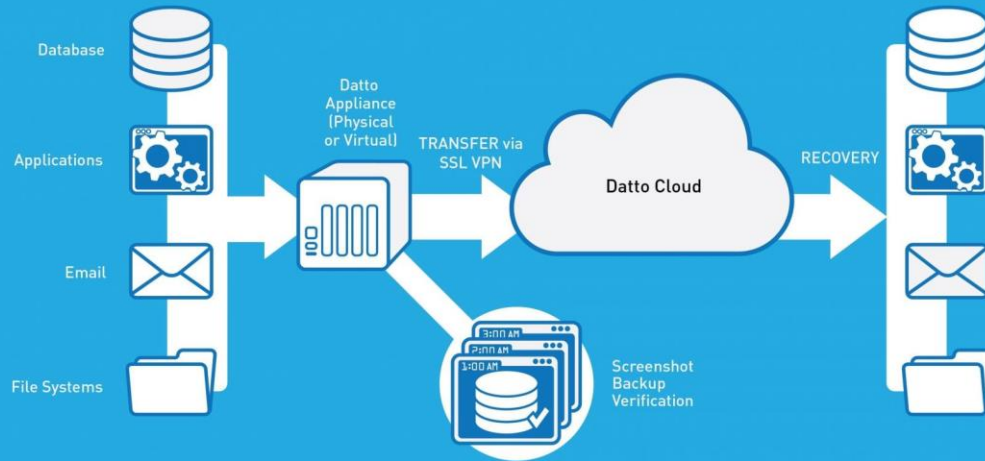
Privacy Impact Assessment



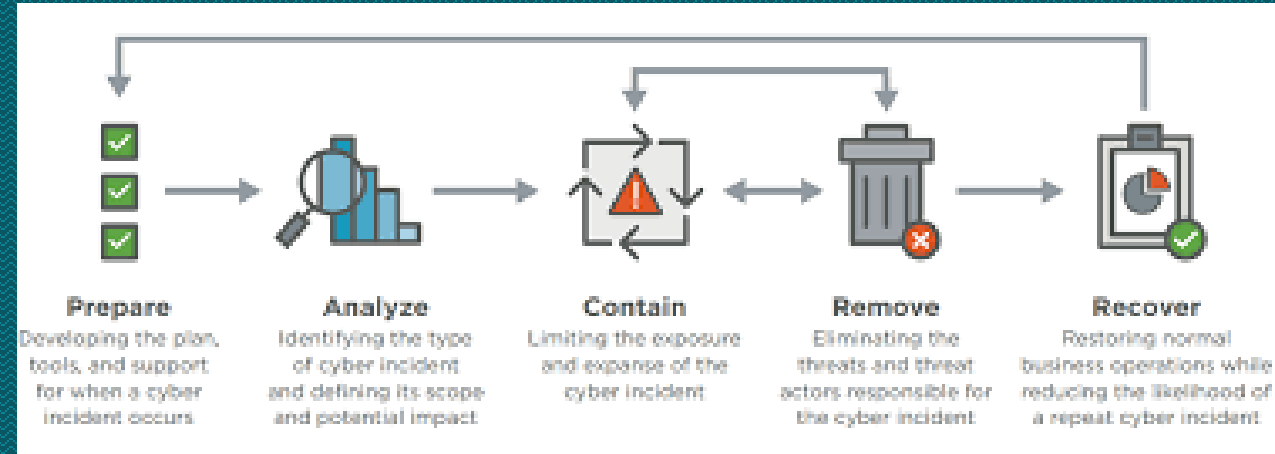
Vulnerability
Assessments and
Penetration
Testing

BREACH MANAGEMENT

Hybrid Cloud Backup Overview



Disaster Recovery



Incident Response

**MY BANK JUST EMAILED
ME**

**BETTER CONFIRM MY ADDRESS AND SOCIAL
SECURITY NUMBER LIKE THEY ASKED**

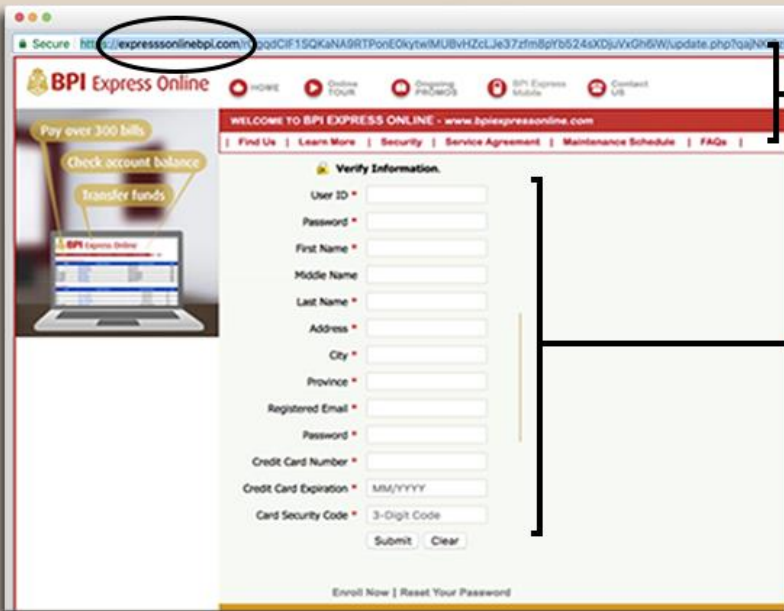
quickmeme.com



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EDUCATION ON SOCIAL ENGINEERING

Phishing Website



The screenshot shows a web browser window with a URL that has been manipulated to look like the BPI Express Online site. The page features a header with the BPI Express Online logo and navigation links. Below the header, there is a 'Verify Information' section with a form asking for various details: User ID, Password, First Name, Middle Name, Last Name, Address, City, Province, Registered Email, Password, Credit Card Number, Credit Card Expiration (MM/YYYY), and Card Security Code (3-Digit Code). The form has 'Submit' and 'Clear' buttons at the bottom. A callout box points to the URL bar, indicating that the visual elements mimic the BPI Express Online site but are not legitimate domains. Another callout box points to the form, indicating it is a fill-out form asking for account details.

Visual elements mimicking BPI Express Online site, but are not legitimate BPI domains.

Fill-out form asking for account details

Phishing

How it's done

Pretexting

- Acquiring information from the user through a lie
- A social security number for identification
- Similar to "security questions"

Pretexting

Phishing Attack!



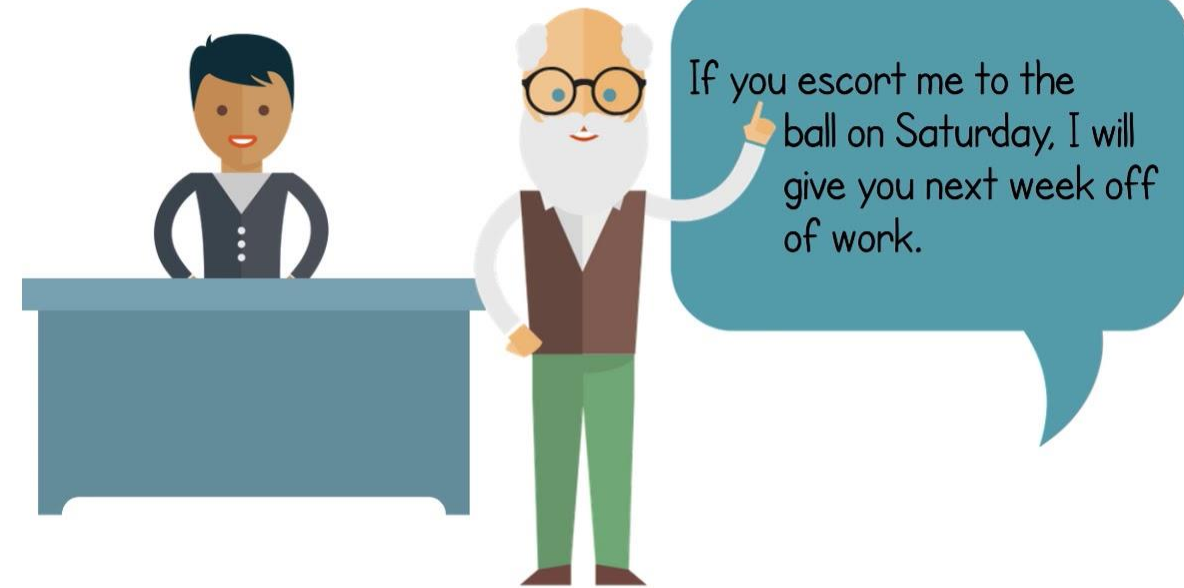
EDUCATION ON SOCIAL ENGINEERING

Baiting

Hey, look! A free USB drive!
I wonder what is on this confidential CD which I found in the bathroom?

These are vectors for malware!
Play on your curiosity or desire to get something for nothing

Don't be a piggy!



a story
made with meovly

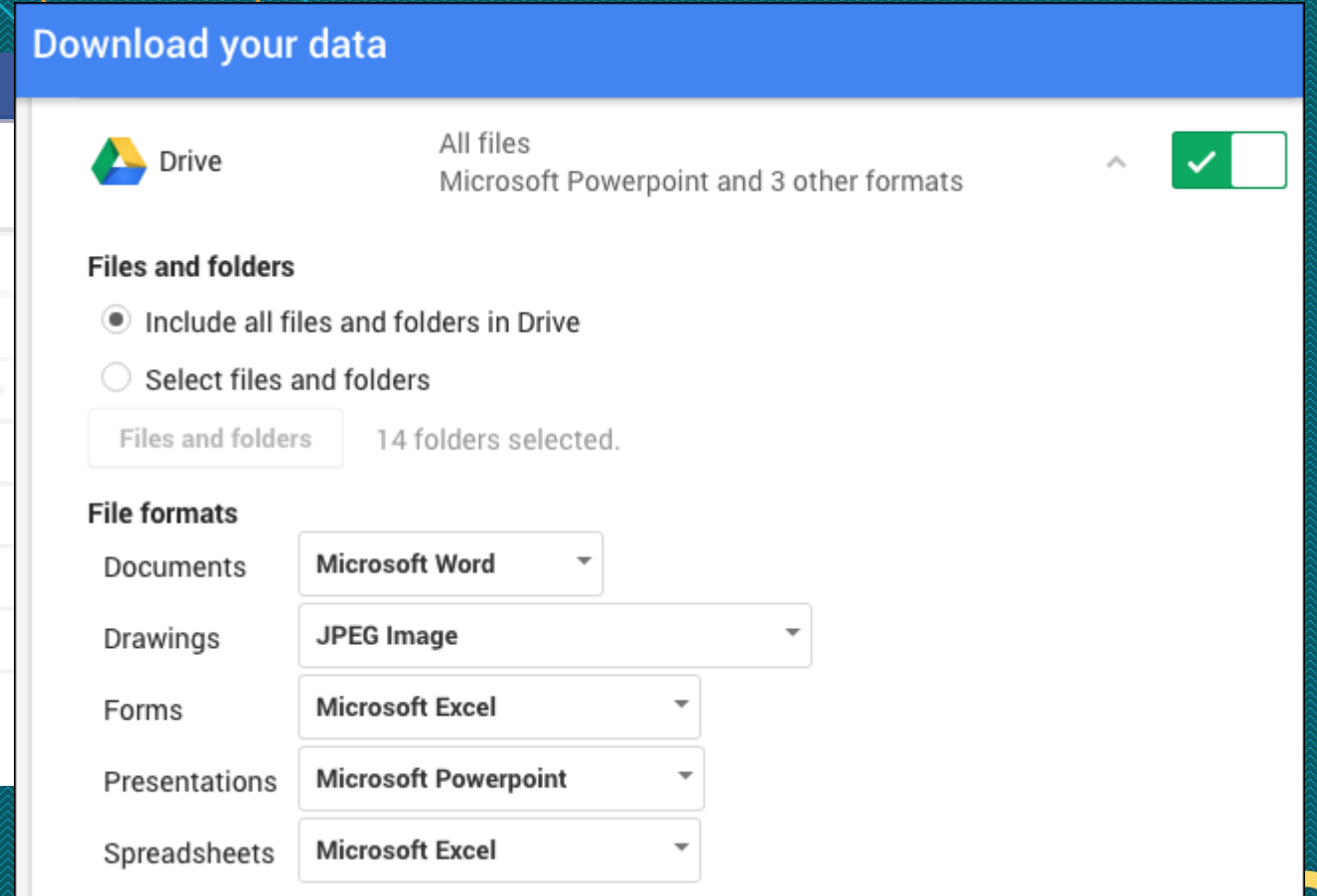
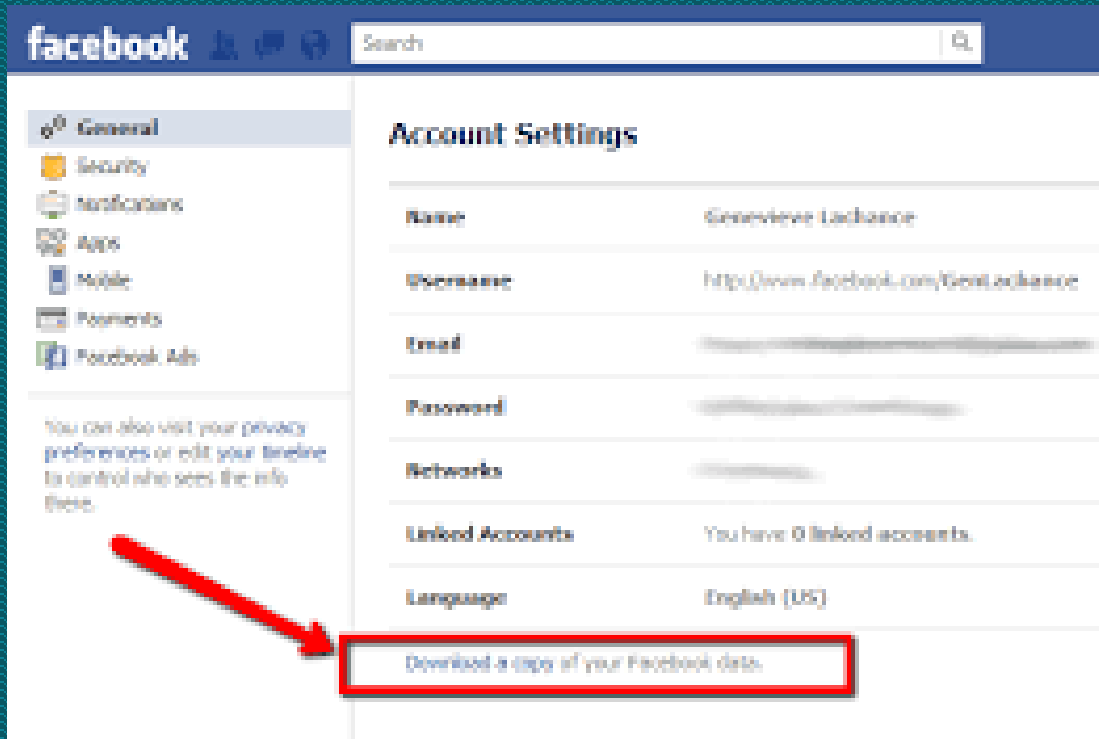
Baiting

Quid Pro Quo


A decorative graphic at the top center of the slide, consisting of two overlapping diamond shapes. The outer diamond is outlined in a light blue color, and the inner diamond is outlined in a light orange color. They are positioned such that they create a central negative space.

Technical Security Measures

DATA PORTABILITY



DATA PORTABILITY

 CIRCLES.LIFE

My Orders

Items: SIM Card
Order: #000001493185904070

Address: Henderson Rd, 221, 06-02, Singapore 159557
Delivery Date: 28 Apr - Friday, 9am-1pm
Porting Date: 1 business day after you receive your SIM card

[Change address/date](#)[Cancel Port-in](#)

You can cancel port-in before Monday, 01 May, 07:30am.

Order placed

NRIC/ID approved

Preparing for shipment

Choose a number [Go back](#)

KEEP YOUR NUMBER

GET NEW NUMBER

Your current POST-PAID number

98888263 Nice! 😊

Get +2 GB /mo if you port over ⓘ


Your current telco

☐ Singtel

☒ StarHub


☐ M1

By proceeding with the port-in process, you confirm that this number is NOT A PREPAID NUMBER and is registered under your own NRIC/ID.



How can I keep my number?

Keep this number

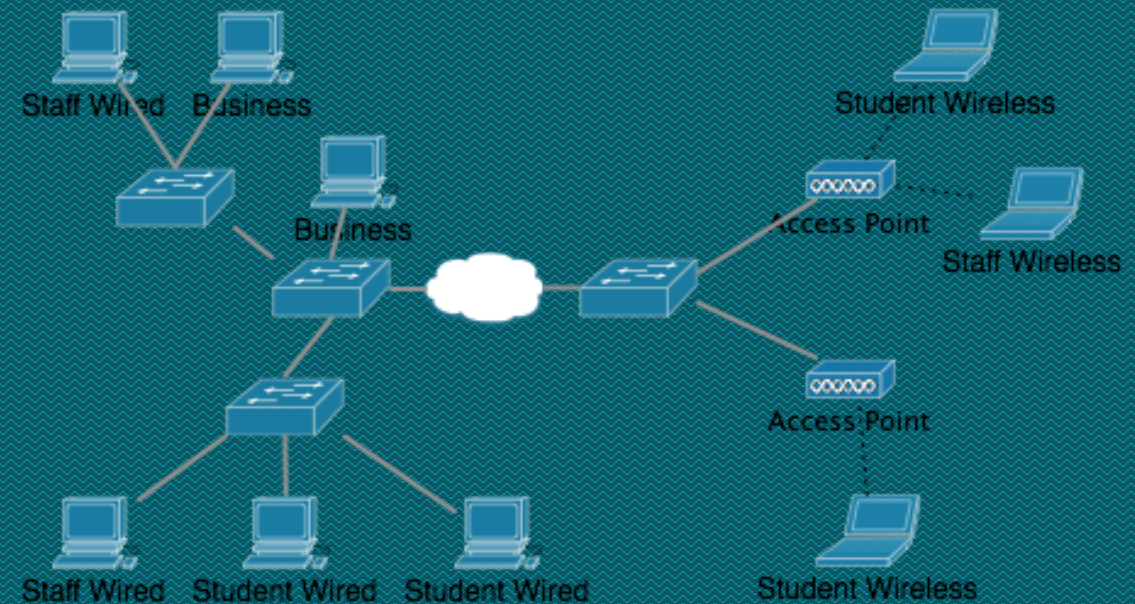
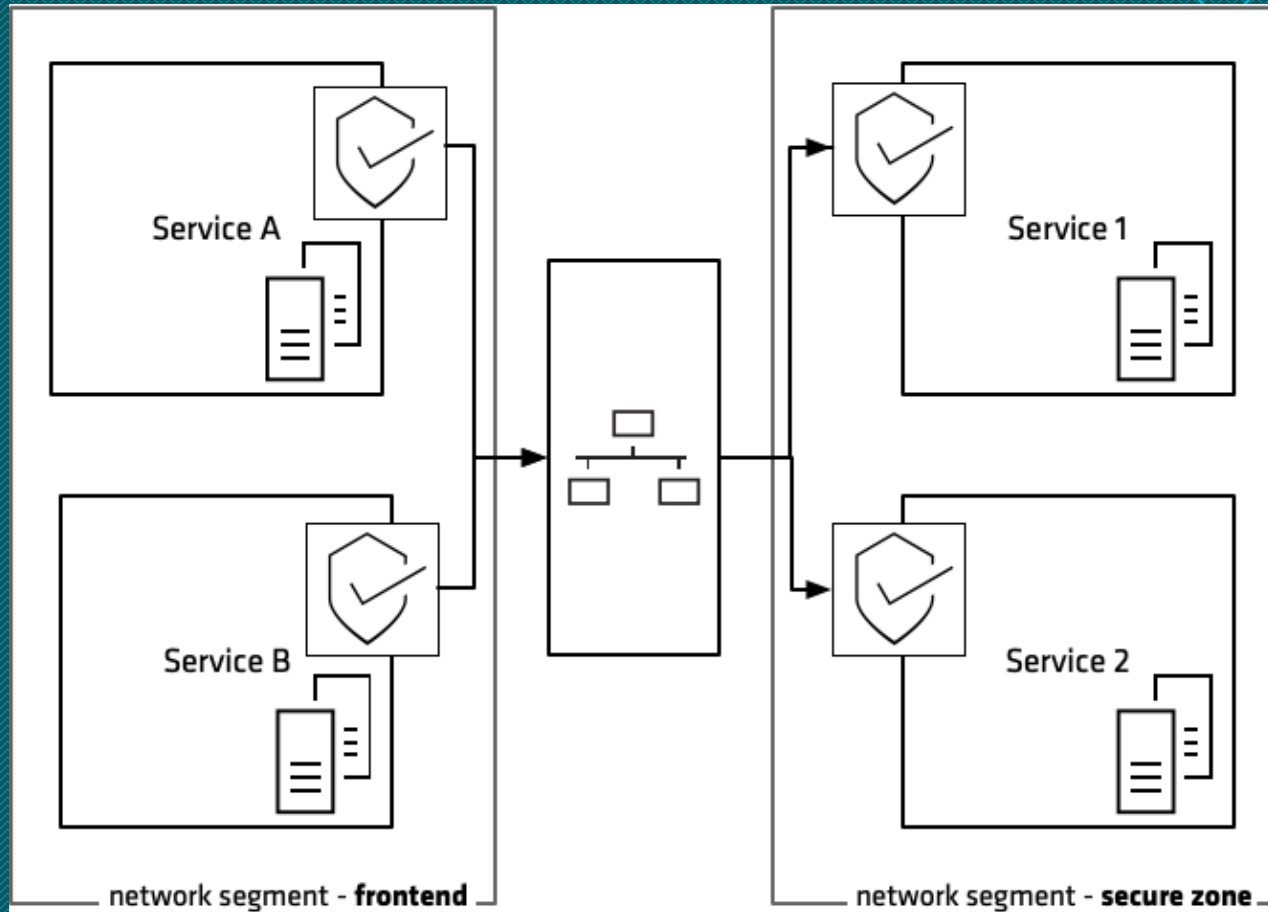


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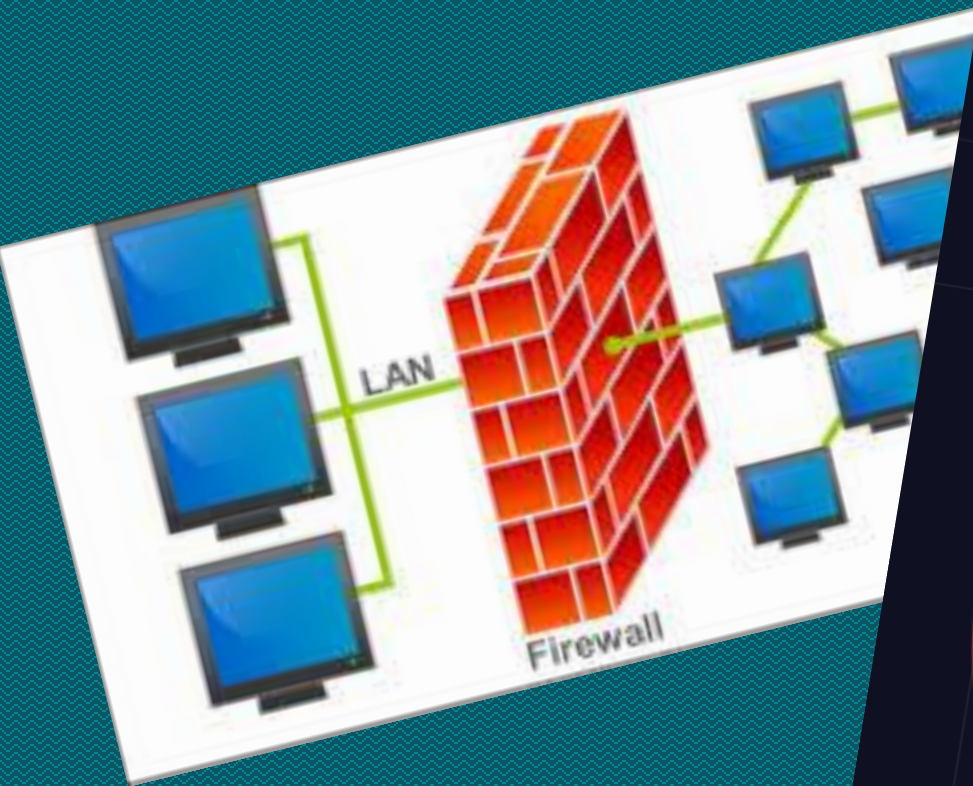
PSEUDONYMIZATION, DE-IDENTIFICATION, ANONYMIZATION

Name	Token/Pseudonym	Anonymized
Clyde	qOerd	XXXXXX
Marco	Loqfh	XXXXXX
Les	Mcv	XXXXXX
Les	Mcv	XXXXXX
Marco	Loqfh	XXXXXX
Raul	BhQl	XXXXXX
Clyde	qOerd	XXXXXX

Network Segmentation



Network Security



IDS vs. IPS

IDS are detection and monitoring tools.

These tools do not take action on their own.

IDS requires a human or another system to look at the results.

Both read network packets and compare the contents to a database of known threats.

IPS is a control system.

The control system accepts and rejects a packet based on the ruleset.

IPS requires that the database gets regularly updated with new threat data.



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IDENTITY & ACCESS MANAGEMENT

IAM service components

AUTHENTICATION SERVICES

- Single sign-on
- Multifactor authentication
- Session and token management

AUTHORIZATION SERVICES

- Roles
- Rules
- Attributes (e.g., metadata)
- Privileged access

USER MANAGEMENT SERVICES

- Provisioning
- Deprovisioning
- Self-service
- Delegation

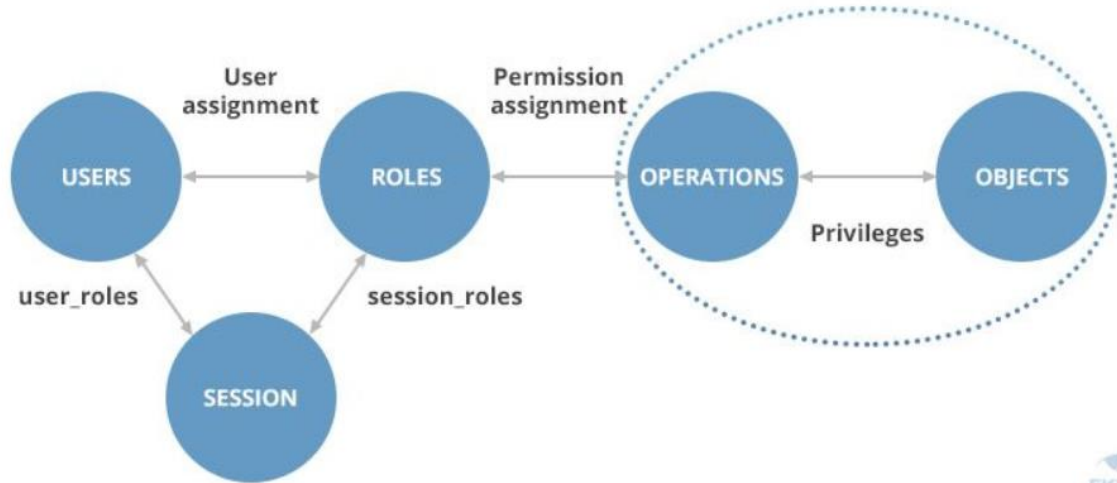
DIRECTORY SERVICES

- Identity store
- Directory federation
- Metadata synchronization
- Virtual directory

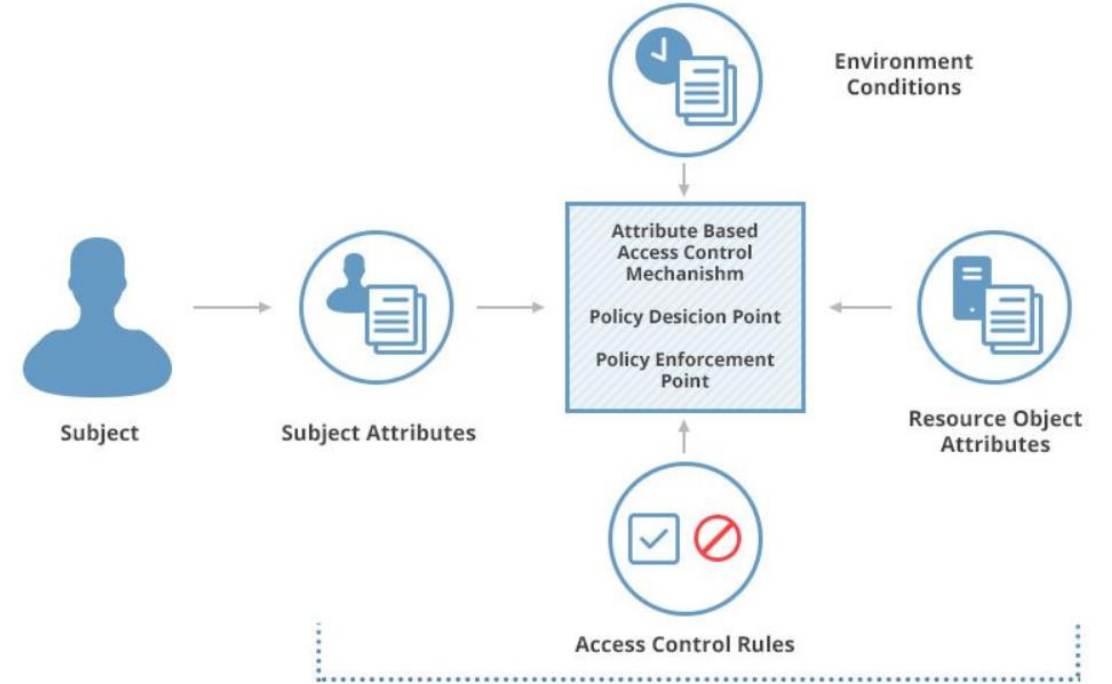


ACCESS CONTROL

- A user can execute an operation only if there is a role assigned to the subject.
- Identification and authentication are not considered operations.
- All user activities are carried out through operations.



RBAC



ABAC

STRONG AUTHENTICATION PRACTICES



DATA VALIDATION & AUTOMATED DELETION ROUTINES

MD5 & SHA Checksum Utility 2.1 Pro

File Folder Options About

Generate Hash

File: C:\Users\raymond\Desktop\setup.exe

Browse

CRC32 ☒ B8F08727

Copy CRC32

MD5 ☒ 9F1CAAC1F0784DCD60A3618CB298B1FB

Copy MD5

SHA-1 ☒ D0C66568493F9FF2E1EE4A2039A704CDF995A4DD

Copy SHA-1

SHA-256 ☒ 966D2ACA7139F7F4DDD8124F7126B0281302F3CB0678A9EA467FB987CFAC83C9

Copy SHA-256

SHA-384 ☒ B9B09410724340585F96F20C5B5E2728A190B310913D0F1EC0FBDF9BD723607E3A3E

Copy SHA-384

SHA-512 ☒ 80113C1570688508F5F0B4494494FCCC43D4D273A535D161E7748B4A98C1BB59C667

Copy SHA-512

Copy All

Verify Hash with Generated Hash (CRC32, MD5, SHA-1, SHA-256, SHA-384 or SHA-512)

Hash: 966D2ACA7139F7F4DDD8124F7126B0281302F3CB0678A9EA467FB987CFAC83C9

Paste

Verify

Keep for 18 months
then delete automatically

Keep for 3 months
then delete automatically

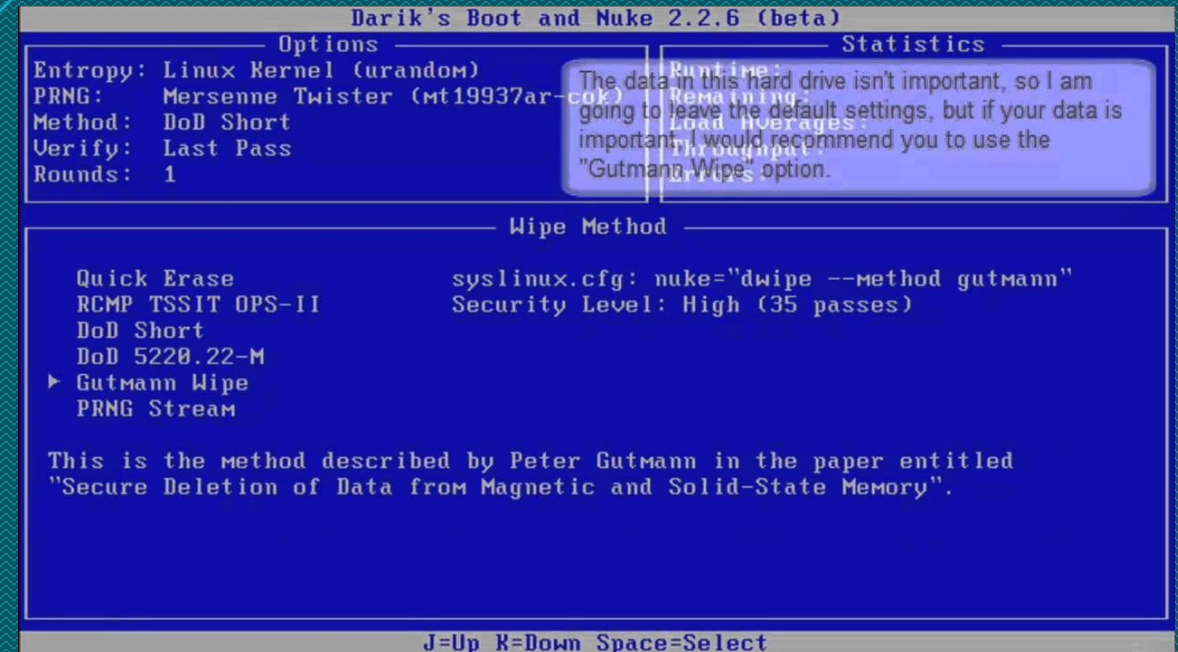


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DATA DESTRUCTION & MEDIA SANITATION

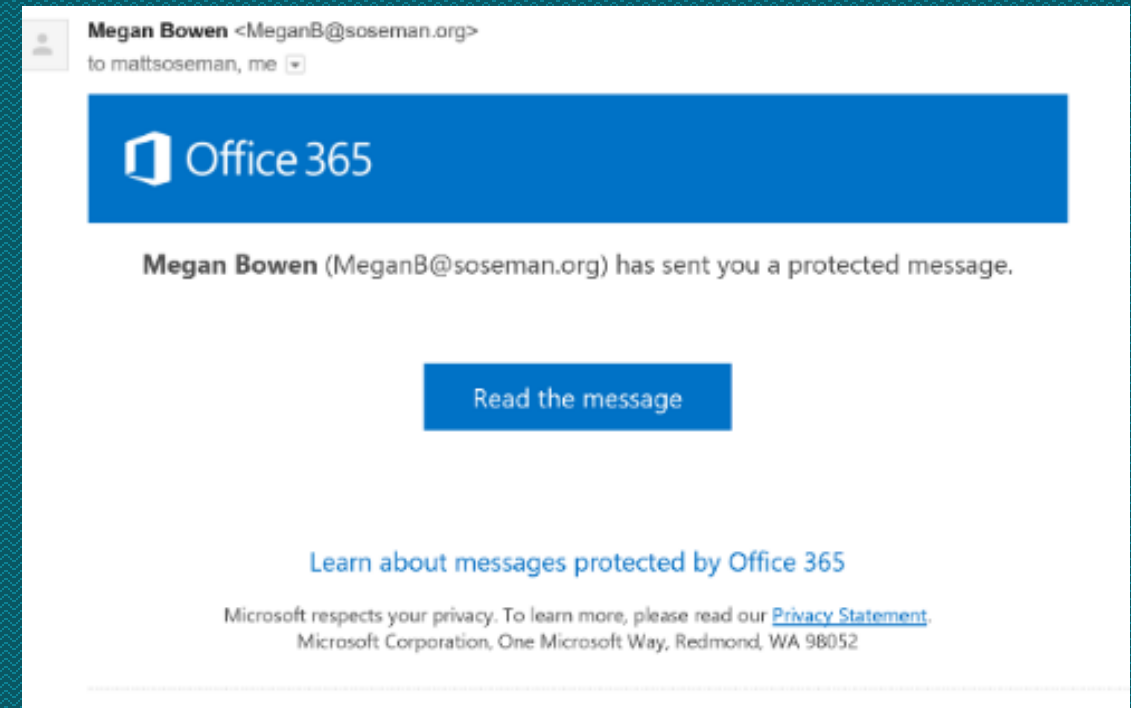


Degaussing



Wiping

Encryption



SSL Certificate

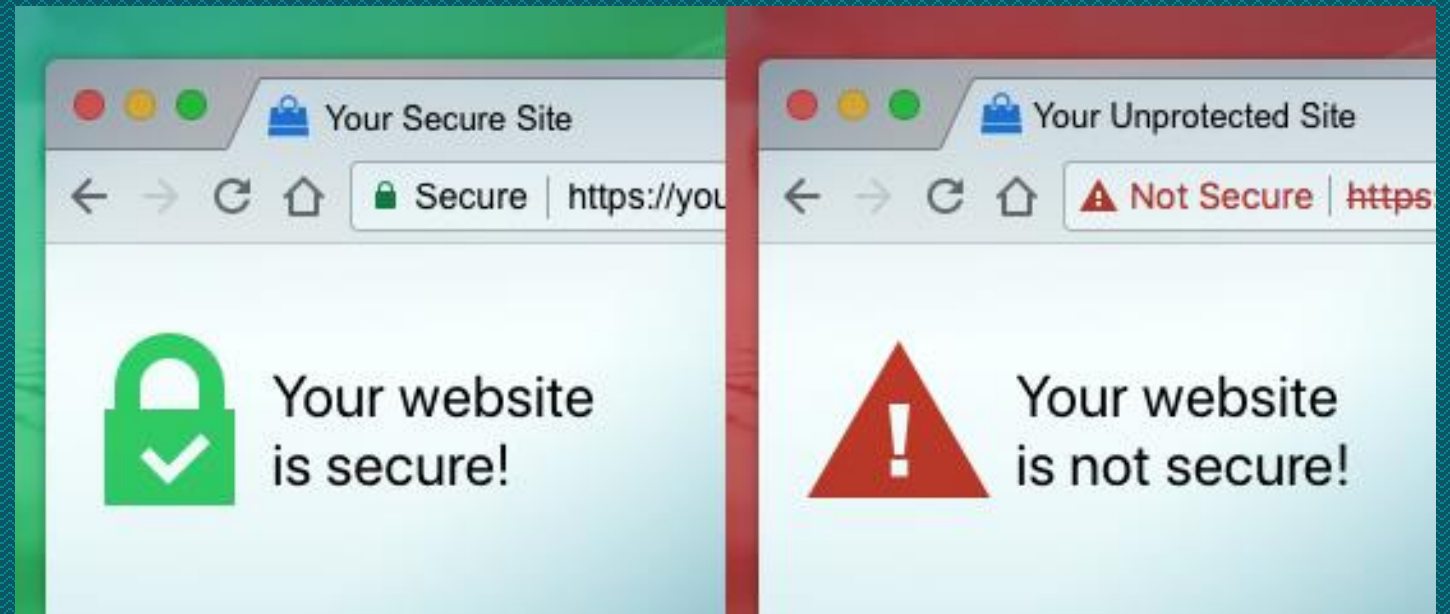


SSL Certificates
Trust solutions

 [https:// www.website.com](https://www.website.com)



 [http:// www.website.com](http://www.website.com)



A decorative graphic consisting of two overlapping diamonds. The outer diamond is outlined in a light orange color, and the inner diamond is outlined in a light blue color. They are centered on the page.

Thank You!

Questions? Suggestions?

PRIVACY.GOV.PH

facebook.com/privacy.gov.ph

twitter.com/privacyph

info@privacy.gov.ph