

EMAIL SECURITY







What is Email Security?

A procedure in which an email or account is protected from unauthorized access or unauthorized capture

Some of the common techniques are:

Strong passwords

Hashing

Firewalls



Why Don't People Use Email Security?



"I doubt any of my usual recipients would understand."

"It's just another step & something else I don't have time for."



Why is Email Security Important?

Emails are popular with hackers as a tool to spread malware and spam with phishing attacks

Emails can be altered and shared if not protected neatly

Unauthorized access can gain data from message backups



Types of Threats

Ransomware - Its name says it all!

Phishing - Not the same as fishing!

Keyloggers - Associated with your keyboard keys!

And many more such as spear phishing, whaling, etc.



Ensuring Email Security





Employee Education - Extremely vital

Others include: Spam Filtering, Admin Controls and Reporting, Image & Content Control, etc.



Employee Education

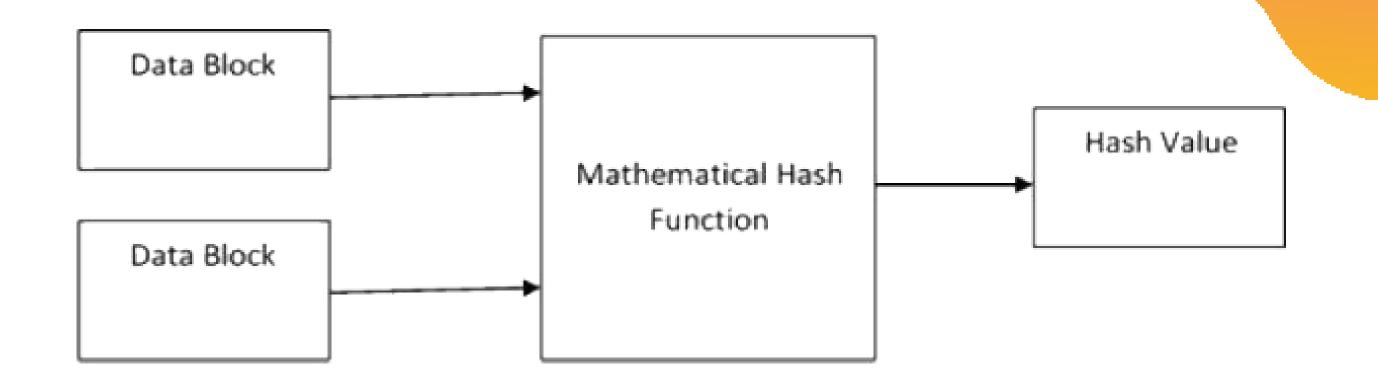
Engage employees in ongoing security education around email security risks

Implement security best practices for BYOD if the company allows employees to access corporate email on personal devices

Ensure that webmail applications are able to secure logins and use encryption

Hashes

The original message is broken down into blocks of bytes and acts as the input to a binary operation that takes two values



PGP (Pretty Good Privacy)

Open-source encryption program written by Phil Zimmermann

It is used for signing, encrypting and decrypting

It provides authentication, confidentiality, compression, etc

What are End User Best Practices for Email Security?



Avoid accessing company email from public wi-fi connections

Refrain from clicking through links embedded in email messages

Scan all attachments for malware



What are End User Best Practices for Email Security?

- Keep your mail client, operating system and web browser updated and patched
- Change passwords often and use best practices for creating strong passwords
- Never share passwords with anyone, including your co-workers
- When working remotely or on a personal device, use VPN software to access corporate email



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