DATA SECURITY

&

CRYPTOGRAPHY

Threats to

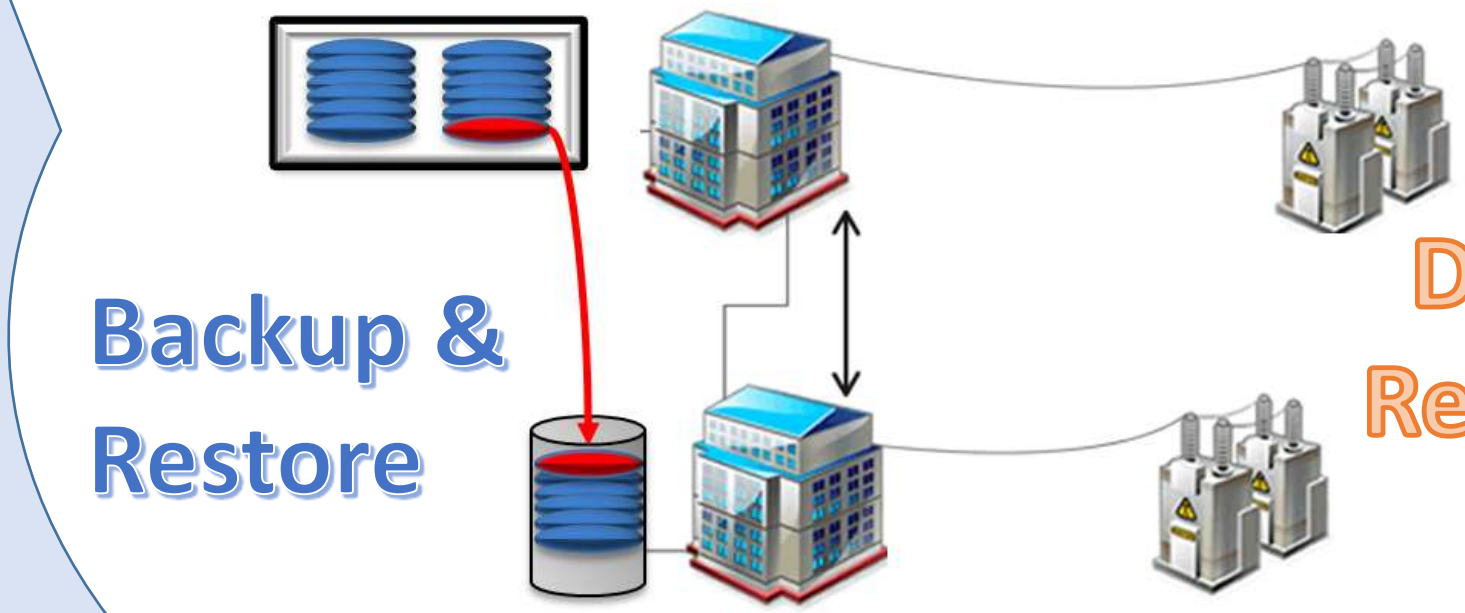
Data Security

Key

A	Corrupted	D	Deleted
B	Lost	E	Hacked
C	Destroyed	F	Damaged

Availability

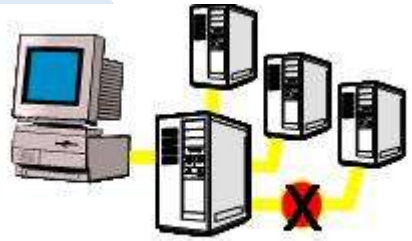
Privacy


Backup &
Restore
Disaster
Recovery

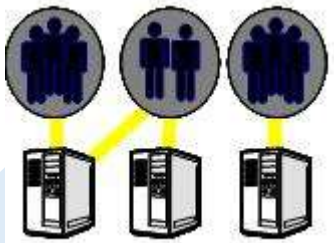
4 A's of Information Security

1. Authentication
(Who are you?)

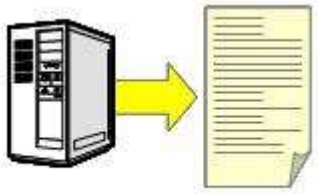
2. Authorization
(What can you do?)

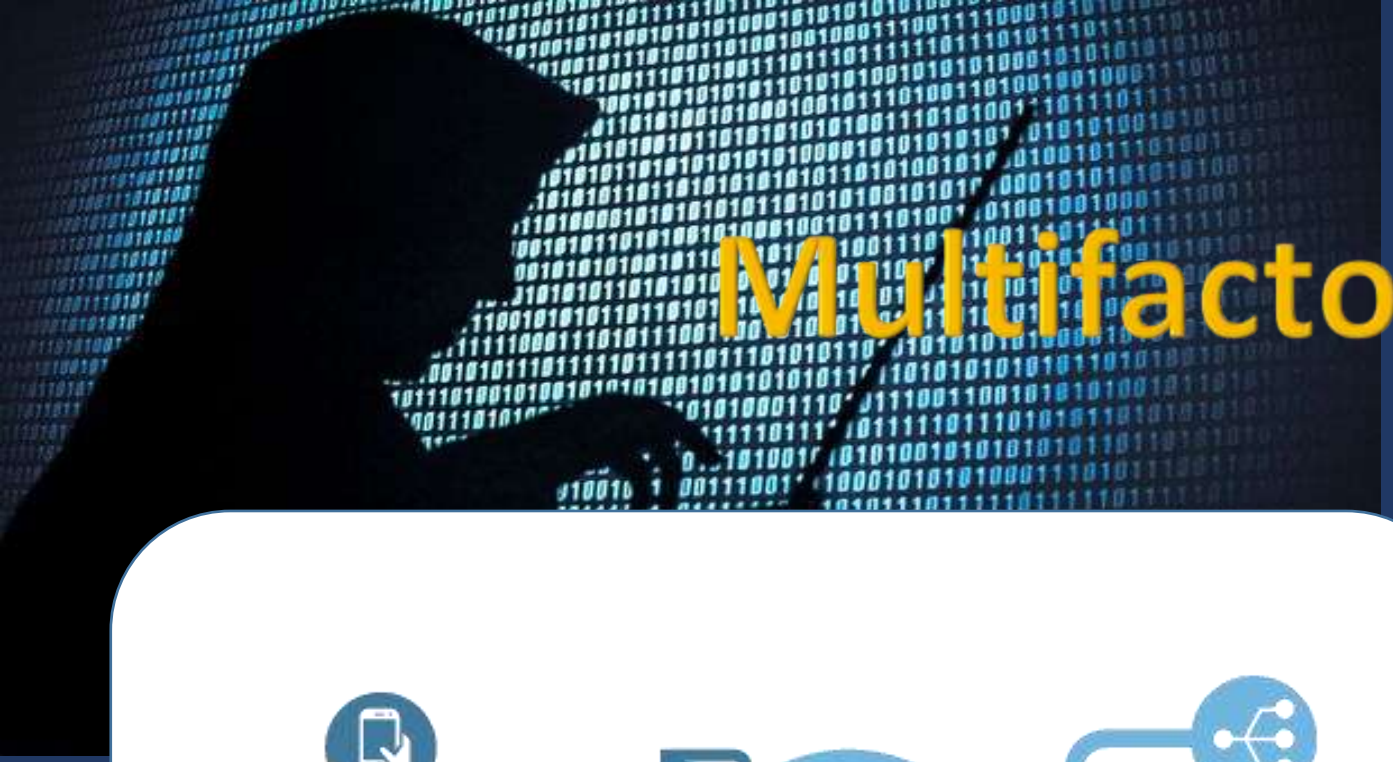


3. Administration
(How do we manage all of this…?)

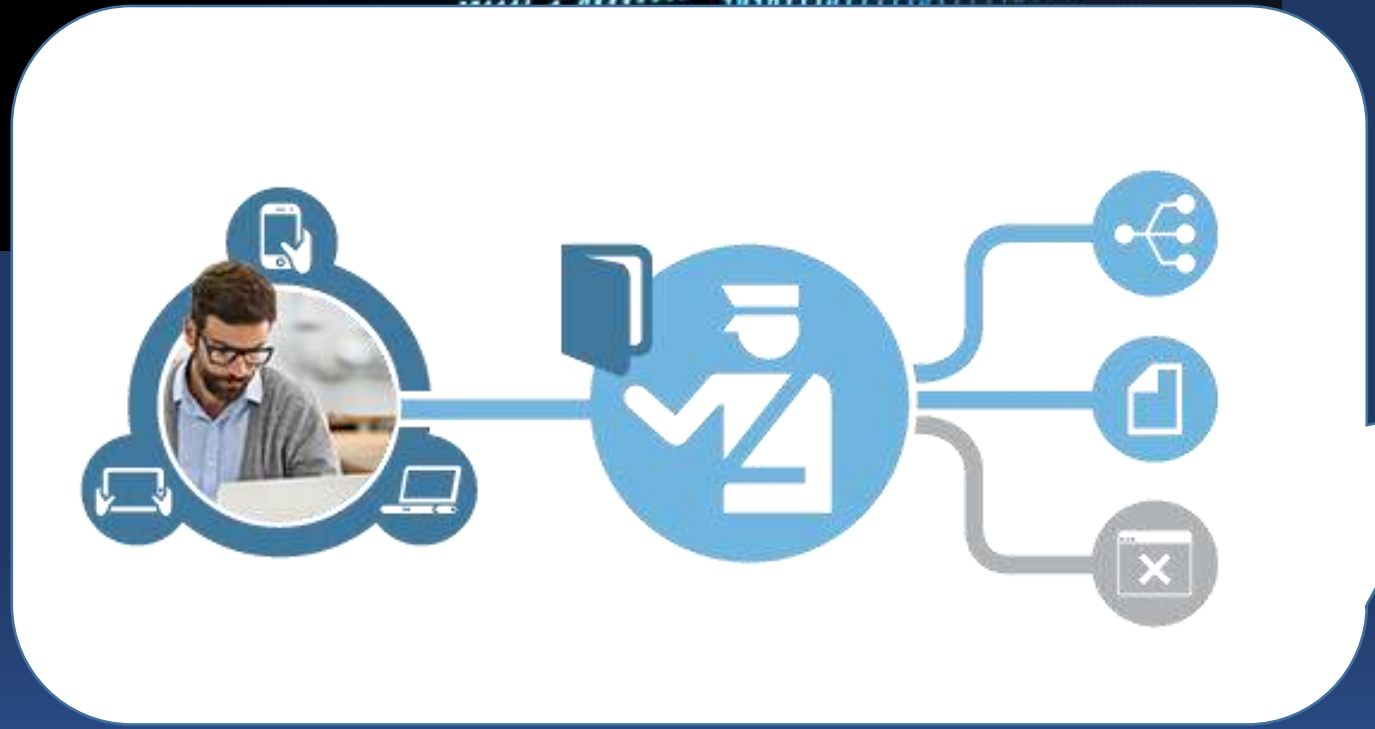


4. Audit
(What has Actually happened?)





Multifactor Authentication

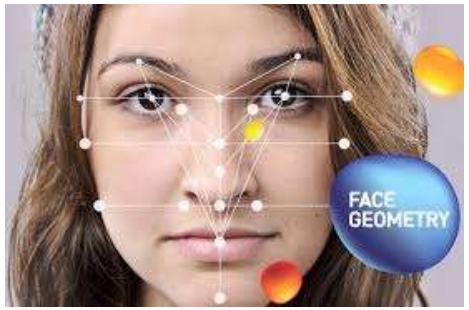


Onetime Password

Biometric Authentications

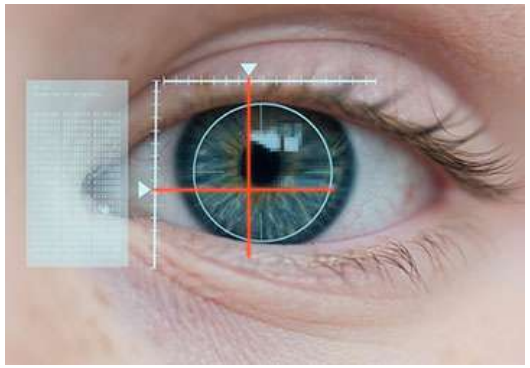
Voice

Face



Fingerprint

Iris

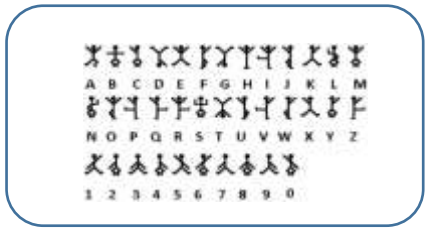


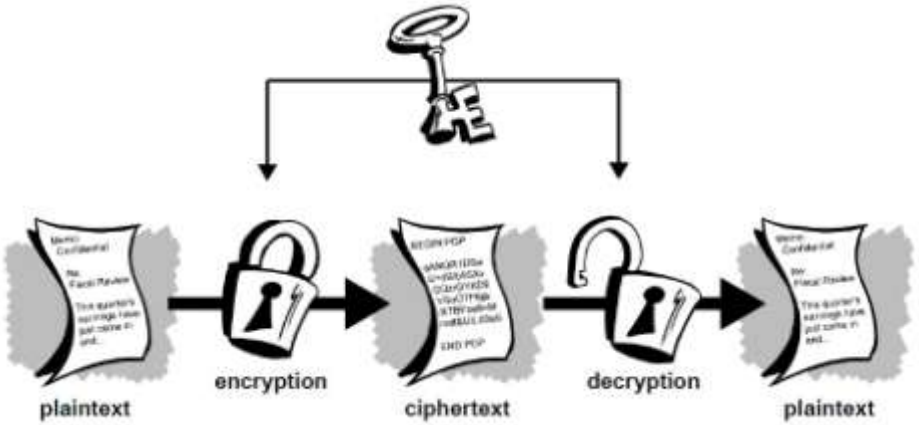
Palm vein

mA
STUFF THEY DON'T WANT YOU TO KNOW
CRYPTOGRAPHY

Symmetric Cryptography

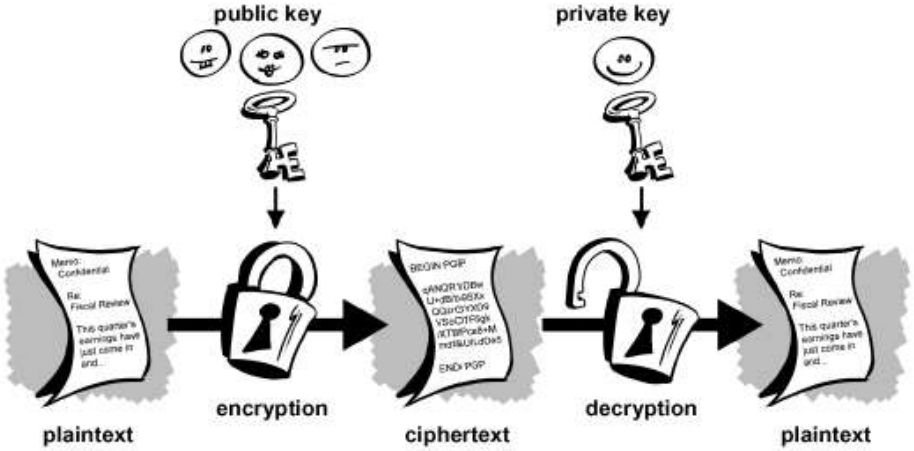
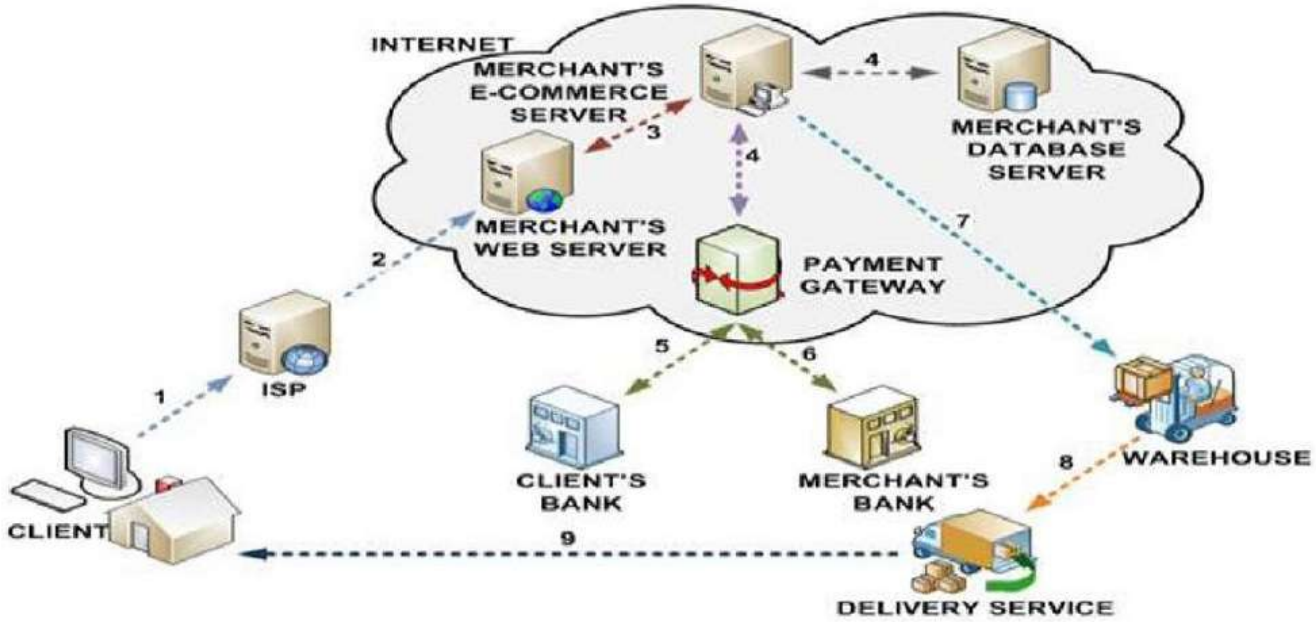
Code Dancing Men





Enigma encryption machine

Public-Key Cryptography



Cryptography in Daily Life