CLOUD SECURITY

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- Cloud computing
- Cloud security breaches
- Cloud security controls

CLOUD COMPUTING:

The practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.

Microsoft offers a set of Web-based apps, Office Online, that are Internet-only versions of Word, Excel, PowerPoint, and OneNote accessed via your Web browser without installing anything.

MICROSOFT OFFICE ONLINE

a pure cloud computing service, with all the storage found online so it can work with the cloud apps: Google Docs, Google Sheets, and Google Slide
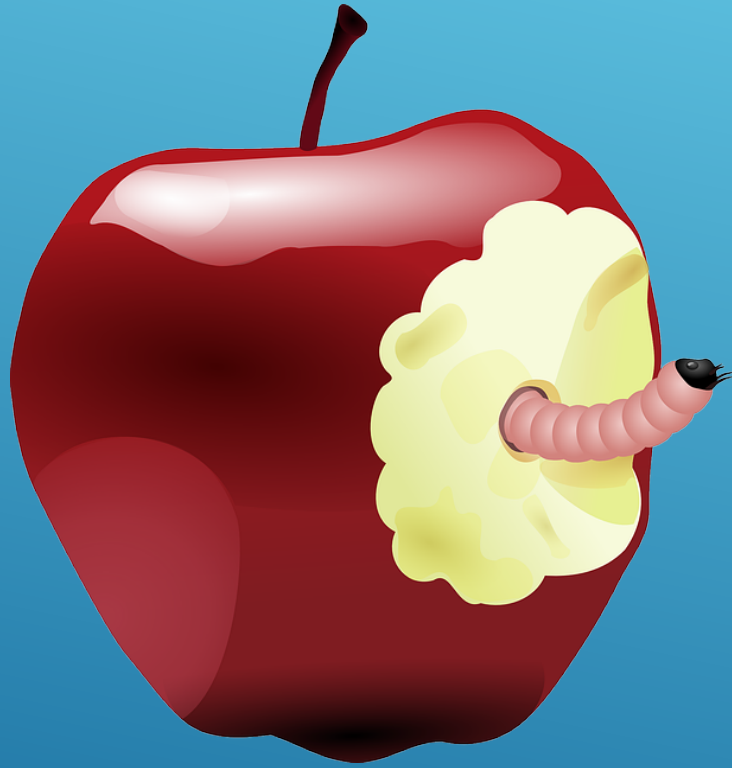
GOOGLE DRIVE

Apple's cloud service is primarily used for online storage, backup, and synchronization of your photos, mail, contacts, calendar, and more.
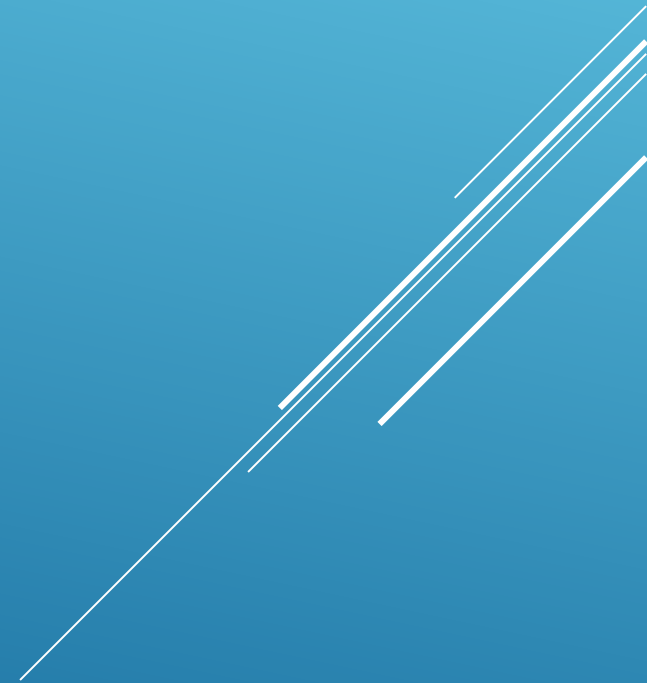
CLOUD SECURITY ISSUES

- by cloud providers
- by their customers

iCloud Leak

August 31st, 2014

The Fappening

a portmanteau of the words "fap"—a slang term for masturbation—and the word "happening"

On August 31, 2014, a collection of almost 500 private pictures of various celebrities, mostly women,
and with many containing nudity, were posted on the imageboard 4chan, and later disseminated by other
users on websites and social networks such as Imgur and Reddit.

THE FAPPENING 2.0

Almost three years after a wave of private photographs of celebrities leaked online, "The Fappening 2.0" appears to be underway with the circulation of alleged naked pictures of female celebrities, including Emma Watson and Amanda Seyfried on Reddit and 4chan.

HOW TO KEEP DATA SECURE ON THE CLOUD?

DON'T STORE SENSITIVE INFORMATION ON THE CLOUD

If you don't want your information be stolen, then don't store them on the cloud.
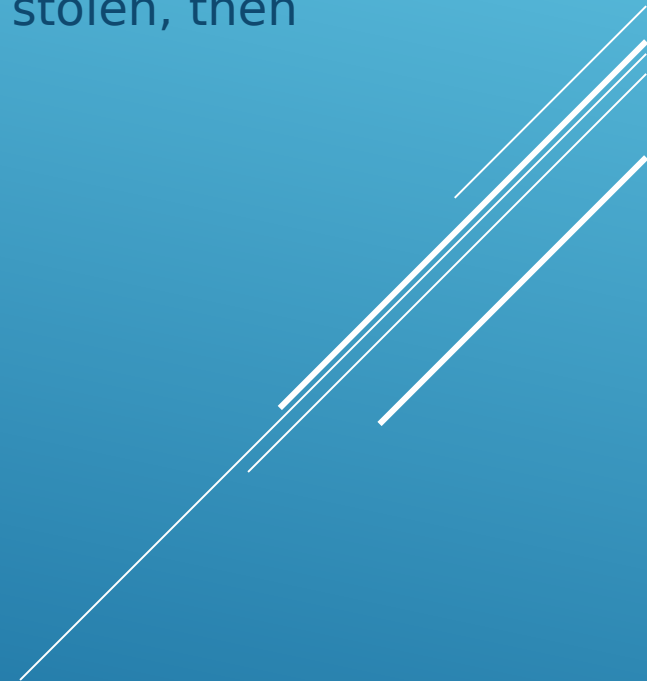
DO RESEARCH BEFORE USING

Using trusted cloud providers

MAKING STRONG PASSWORDS

At least 8 characters

Combine with upper, lower, number and symbols

ENCRYPTION IS NECESSARY

Encrypt by yourself

Use encrypted cloud service

ICLOUD

Is iCloud a trusted cloud provider?

Making strong passwords

Do they encrypt?

ICLOUD

Strong passwords

When you create an Apple ID to use with iCloud, your password must have a minimum of 8 characters, a number, an uppercase letter, and a lowercase letter. Learn more about creating a strong password.

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Is iCloud a trusted cloud provider?

Making strong passwords ✓

Do they encrypt?

Security and iCloud features

This table summarizes how iCloud secures your data when you use up to date operating systems and software.

Data	Encryption		Notes
	In transit	On server	
Calendars	Yes	Yes	A minimum of 128-bit AES encryption
Contacts	Yes	Yes	
Bookmarks	Yes	Yes	
Notes	Yes	Yes*	
Reminders	Yes	Yes	
Photos	Yes	Yes	
iCloud Drive	Yes	Yes	
Backup	Yes	Yes	
Find My iPhone	Yes	Yes	
Find My Friends	Yes	Yes	
iCloud Keychain	Yes	Yes	Uses 256-bit AES encryption to store and transmit passwords and credit card information. Also uses elliptic curve asymmetric cryptography and key wrapping.
iCloud.com	Yes	N/A	All sessions at iCloud.com are encrypted with SSL. Any data accessed via iCloud.com is encrypted on server as indicated in this table.
Back to My Mac	Yes	N/A	Back to My Mac does not store data on iCloud. Data retrieved from other computers is encrypted with SSL while in transit.
Mail	Yes	No	All traffic between your devices and iCloud Mail is encrypted with SSL. Consistent with standard industry practice, iCloud does not encrypt data stored on IMAP mail servers. All Apple email clients support optional S/MIME encryption.

ICLOUD

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iCloud Drive	Yes	Yes	
Backup	Yes	Yes	
Find My iPhone	Yes	Yes	
Find My Friends	Yes	Yes	
iCloud Keychain	Yes	Yes	Uses 256-bit AES encryption to store and transmit passwords and credit card information. Also uses elliptic curve asymmetric cryptography and key wrapping.
iCloud.com	Yes	N/A	All sessions at iCloud.com are encrypted with SSL. Any data accessed via iCloud.com is encrypted on server as indicated in this table.
Back to My Mac	Yes	N/A	Back to My Mac does not store data on iCloud. Data retrieved from other computers is encrypted with SSL while in transit.
Mail	Yes	No	All traffic between your devices and iCloud Mail is encrypted with SSL. Consistent with standard industry practice, iCloud does not encrypt data stored on IMAP mail servers. All Apple email clients support optional S/MIME encryption.

iCloud