Sharing and Collaboration in the Cloud

Washington Apple Pi General Meeting
August 23, 2014

Presenters: Diana King, Jay Castillo, Roy Wagner, Lawrence Charters, Larry Kerschberg, Raju Tonapi, Jonathan Bernstein, and the audience
Outline of Presentation

[Diana]

- Brief Review of Cloud Computing
- Sharing and Collaboration using Mac, iOS and Windows.
  - iCloud and iWork (Pages, Keynote, and Numbers) [Roy]
  - Google Drive and Google Docs (no desktop versions) [Lawrence]
  - MS OneDrive and Office365 (Word, PowerPoint, and Excel) [Larry]
- Comparison of the three productivity suites
- Case studies from the audience
Cloud Computing Review

[Jay]

- Computing and Software as a Service
  - The Web Servers can host your data and applications
  - Pay based on usage;
  - Lease software rather than own it.
- Synchronization of files across multiple computers
- Cloud services: Dropbox, iCloud, Google Drive, OneDrive, Amazon Web Services, SugarSync, and the like.
Apple’s iCloud and iWork

Web Browser version
The Apple iCloud

Apple’s very own cloud service is integrated into Mac OSX and iOS.

iCloud integrated into applications.

iDrive coming to Mac OSX Yosemite and iOS 8. (Will replace iCloud)
Apple’s iWork

icloud.com

Login: Your AppleID
iCloud Home Screen:

- Mail
- Contacts
- Calendar
- Notes
- Reminders
- Find My iPhone
- Pages
- Numbers
- Keynote
Apple's iCloud Security:

<table>
<thead>
<tr>
<th>Data</th>
<th>Encryption</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In transit</td>
<td>On server</td>
</tr>
<tr>
<td>Calendars</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Contacts</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Bookmarks</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Reminders</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Photos</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Documents in the Cloud</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Backup</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Find My iPhone</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Find My Friends</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>iCloud Keychain</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uses 256-bit AES encryption to store and transmit passwords and credit card information. Also uses elliptic curve asymmetric cryptography and key wrapping.</td>
</tr>
<tr>
<td>iCloud.com</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All sessions at iCloud.com are encrypted with SSL. Any data accessed via iCloud.com is encrypted on server as indicated in this table.</td>
</tr>
<tr>
<td>Back to My Mac</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Back to My Mac does not store data on iCloud. Data retrieved from other computers is encrypted with SSL while in transit.</td>
</tr>
<tr>
<td>iTunes in the Cloud</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Purchased or matched music files are not encrypted on server because they do not contain any personal information.</td>
</tr>
<tr>
<td>Mail and Notes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All traffic between your devices and iCloud Mail and Notes 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.</td>
</tr>
</tbody>
</table>
iCloud Pages Screen:

Create Document
Create a new Pages document.

Word .doc Files
Today, 12:48 PM

Ask Siri
Today, 12:35 PM

Things to Do While on Vacation
Today, 11:25 AM

To create a folder, select one or more documents, then drag them onto another document.

To upload and edit Pages or Microsoft Word documents, drag them in from your desktop.
iCloud Numbers     iCloud Keynote

All Look and Function the Same
iCloud Options Menu:

Create Document

Create a new Pages document.

To create a folder, select one or more documents, then drag them onto another document.

To upload and edit Pages or Microsoft Word documents, drag them in from your desktop.
System Preferences:
System Preferences:
Manage Your iCloud Storage:
iWork Collaboration with Pages and Keynote

- Show the iWork web site and online collaboration using the Web as well as Mac or iOS apps.
- Create a Pages or Keynote document on your Mac or iOS device
- Share it with a friend or colleague
- Edit the document in real time
- Show some nice features of Pages and Keynote
Google Drive and Google Apps [Lawrence]

Google’s philosophy is that everything can be done online

Google Drive and GDocs
Google Drive and Collaboration with Google Docs

- Show Google Drive web site with online collaboration using the Web.
- Create a document on your Mac or iOS device
- Share it with a friend or colleague
- Edit the document in real time
- Show some nice features of Google Drive.
Microsoft OneDrive and Office 365 Apps

Microsoft under its new CEO, Satya Nadella, is oriented towards cloud services
Microsoft is not the Evil Empire

Steve and Bill at the 1997 MacWorld Conference. Bill Gates invested $150 Million to give Apple a lifeline. The rest is history!
Microsoft OneDrive and Collaboration with Office Applications

- Show OneDrive web site with online collaboration using the Web apps.
- Create a Word document on the Mac or iOS device
- Share it with a friend or colleague
- Edit the document in real time
- Show some nice features of MS Office for iPad.
Which Cloud Service is right for you?

- Why bother to choose? Get them all!
- On a budget? Free is good!
- Are you retired?
- Do you own a business? Do you need to use MS Office to create and submit documents?
- Do you collaborate with family, friends and colleagues?
- Are you worried about security?
# Comparison of Services/Costs

<table>
<thead>
<tr>
<th></th>
<th>Apple iCloud (current)</th>
<th>Apple iCloud Drive</th>
<th>Microsoft OneDrive</th>
<th>Google Drive</th>
<th>Dropbox</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Free</strong></td>
<td>5GB</td>
<td>5GB</td>
<td>15GB (8GB Bonus for signing up)</td>
<td>15GB</td>
<td>2GB (up to 16GB Bonus for signing up)</td>
</tr>
<tr>
<td><strong>20GB</strong></td>
<td>$3.33/month or $40/year</td>
<td>$0.99/month</td>
<td>Free with Office 365 subscription ($6.99 a month)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>50GB</strong></td>
<td>$8.33/month or $100/year</td>
<td>Not Available</td>
<td>$2.08/month or $25/year</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>100GB</strong></td>
<td>Not Available</td>
<td>Not Available</td>
<td>$4.16/month or $50/year</td>
<td>$1.99/month</td>
<td>$9.99/month</td>
</tr>
<tr>
<td><strong>200GB</strong></td>
<td>Not Available</td>
<td>$3.99/month</td>
<td>$8.33/month or $100/year</td>
<td>Not Available</td>
<td>$19.99/month or $199.99/year</td>
</tr>
<tr>
<td><strong>1TB or higher</strong></td>
<td>Not Available</td>
<td>Unannounced</td>
<td>One Drive and OneDrive for Business $2.50</td>
<td>$9.99/month</td>
<td>$15 per user/month for unlimited storage</td>
</tr>
<tr>
<td><strong>Platforms</strong></td>
<td>Windows, Mac, iOS</td>
<td>Windows, Mac, iOS</td>
<td>Windows, Mac, Android, iOS</td>
<td>Windows, Mac, Android, iOS</td>
<td>Windows, Mac, Android, iOS</td>
</tr>
</tbody>
</table>

20GB and 1TB plans only available for OneDrive. Google Drive and Dropbox do not offer plans for lower storage sizes.
Audience Case Studies