

Using Free and Open Source Software to Lowering your TCO

Wake Forest Area Chamber of Commerce
Tech Tuesday for the Non-Techie Series



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Open Source Software

- What is Open Source Software?
 - Generically, open source refers to a program in which the source code is available to the general public for use and/or modification from its original design free of charge, i.e., open. Open source code is typically created as a collaborative effort in which programmers improve upon the code and share the changes within the community.
- Freeware and Shareware are not Open Source Software. The code is not shared for peer review or improvement.

Open Source Software

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones.

- Linus Torvalds, Creator of Linux
Announcing its first version

Given enough eyeballs, all bugs are shallow.

- Eric S. Raymond, The Cathedral and The Bazaar

Open Source Software

- The Internet runs on Open Source Software.
 - DNS/BIND the phone book of the Internet is OSS.
 - Apache Web Server runs 65% of web sites today.
 - MacOS X uses the open source BSD OS as its basis.
 - Linux is the operating system used to:
 - Run the New York Stock Exchange
 - The OS at the core of Android phones, WebOS phones, Tivo DVRs, and many embedded devices.
 - Used by 91% of Fortune 500 companies.
 - Facebook runs on PHP and the MySQL database, both Open Source Software.
 - WebKit – Core of: Safari; Safari Mobile; Chrome; Android Browser; Blackberry Web Browser; and many others.

Open Source Software

- Motivations by programmers
 - Scratch an itch. They need a feature or tool, but don't have time to do it all themselves.
 - Their company pays them to contribute to a specific project. Red Hat, Oracle, IBM, etc.
 - Street cred.
 - “In a rising tide, all boats are lifted.”
 - The industry as a whole is moved forward with no real winners or losers. Products are improved and the customer win.

- Open Source Web Browser
- Why use it?
 - Security vulnerabilities fixed in days. Microsoft has taken months to years to fix IE vulnerabilities.
 - Rich extension environment. From ad blocking to weather applets and more.
 - More closely matches the standard for web pages as published by W3C.
 - Works on virtually any operating system.



- Open Source Blogging and CMS.
- Used by the Chamber's website.
- Allows non-technical users to manage the content of their website.
- Many hosting providers have tools to install and set up WordPress automatically.
- Amazon.com lists 380 books on using WordPress.



- Cross platform replacement for MS Office.
- Originally StarOffice, a closed source product from StarDivision.
- Bought by Sun Microsystems and open sourced as Open Office.
- During Oracle buyout of Sun, the community took over development as LibreOffice.



LibreOffice
The Document Foundation

- Provides:
 - Writer – MS Word
 - Impress – PowerPoint
 - Calc – Excel
 - Base – MS Access
 - Draw – Structured drawing program with no MS Office equivalent.



LibreOffice
The Document Foundation

- Features:



LibreOffice
The Document Foundation

- Full compatibility with MS Office file formats. Open and save MS Office files.
- Preferred file format is Open Document, a standardized file format with OASIS and ISO/IEC recognition.
- Native export to PDF. No additional software to install or buy.
- “You're soaking in it.” This presentation was created with LibreOffice 3.3.

Inkscape and Scribus

- Inkscape
 - Structured vector graphic drawing program.



- Scribus
 - Desktop publishing



Hatteras Software and OSS

- Hatteras Software contributes to Open Source Software.
- Google Map Component
<http://github.com/nedwidek/jquery-GoogleMapV3>
 - Easily integrated into web forms that collect addresses and need GPS coordinates.
- jQuery Mobile – JavaScript library for mobile phones.
- JSON-RPC – A web standard for client and server communication.

