World 2012
Munki Magic

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Objectives

• Explore Munki - see what it can do for your university/organisation

• Exploit Munki - learn how to setup and administer a Munki repository

• Examine an existing Munki deployment - how does UOW use Munki?
Centralised package management (MOE)

Automate Apple software updates

Optional installs/self-service
No admin access required

All you need is a HTTP(S) webserver
Installer packages

pkg  mpkg

Copy from disk image
dmg

Adobe CS3 ➔ CS6

Enterprise deployment “packages”
Munki agent runs roughly every hour.

Looks for things to install or update or remove.
Can notify user there are updates to be done

Unattended install at the login window
Software updates are available for your computer.
Updating your software may take some time. If you're not ready to update now, you can choose to update later.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Dreamweaver CS6</td>
<td>12</td>
<td>322.8 MB</td>
</tr>
</tbody>
</table>

Adobe Dreamweaver CS6 web design software provides an intuitive visual interface for making and editing websites and mobile apps. Use fluid grid layout designed for cross-platform compatibility to create pages. Review designs with Multiscreen Preview before publishing.

Optional software...
How do I setup a Munki “repository”?
HTTP(S) server to serve client configuration, package metadata and packages/disk images
Ideally

http://munki/repo

Autodiscovery!
Munki repository

repo/
  pkgs/
  pkginfo/
  catalogs/
  manifests/
Packages/disk images

pkgs/
Firefox-12.1.dmg
Firefox-13.0.dmg
Chrome-20.dmg
Keynote.dmg
UOW-Readme.dmg
pkgsinfo/
Firefox-12.1
Firefox-13.0.1
Chrome-20.0.1132
Keynote-5.1.1.1
UOW-Readme-1.0
Catalogs

catalogs/
production
testing
development
all

Automatically generated!
Manifests

manifests/
  server
  lab
  staff
  laptop
  site_default
Munki tools

munkiimport  --help
makepkginfo   --help
makecatalogs  --help
manifestutil  --help
First time configuration

munkiimport
   --configure
Import a package!

munkiimport
Firefox.dmg
cd repo && makecatalogs
Install Munki on client

<table>
<thead>
<tr>
<th>Package Name</th>
<th>Action</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Munki core tools</td>
<td>Upgrade</td>
<td>532 KB</td>
</tr>
<tr>
<td>Munki admin tools</td>
<td>Skip</td>
<td>106 KB</td>
</tr>
<tr>
<td>Managed Software Update</td>
<td>Upgrade</td>
<td>770 KB</td>
</tr>
<tr>
<td>Munki launchd agents</td>
<td>Upgrade</td>
<td>33 KB</td>
</tr>
</tbody>
</table>
Configure client

<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DaysBetweenNotifications</td>
<td>Number</td>
<td>1</td>
</tr>
<tr>
<td>SuppressUserNotification</td>
<td>Boolean</td>
<td>NO</td>
</tr>
<tr>
<td>InstallAppleSoftwareUpdates</td>
<td>Boolean</td>
<td>YES</td>
</tr>
<tr>
<td>SuppressAutoInstall</td>
<td>Boolean</td>
<td>NO</td>
</tr>
<tr>
<td>ClientIdentifier</td>
<td>String</td>
<td>laptop</td>
</tr>
<tr>
<td>AppleSoftwareUpdatesOnly</td>
<td>Boolean</td>
<td>NO</td>
</tr>
<tr>
<td>ManagedInstallDir</td>
<td>String</td>
<td>/Library/Managed Installs</td>
</tr>
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Run MSU

Software updates are available for your computer.

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Optional software...

Later

Update now
Demo
“MacMan”
Dynamic manifest generator hooked into Open Directory
Computer: simba

Hostname: simba
Ethernet Address: e8:06:88:cd:3b:9b
Generated UID: 6C88D0C9-C0D3-40D9-BD28-BA539F480BB2
Catalogs: development, testing, production
Manifest URL: http://munki.uow.edu.au/repo/manifets/simba
Last manifest check in: 22:17:56 2012-07-03
Groups:
  - Desktop: Information Technology Services
  - ITS Printers
  - Desktop: All

My Packages:
  - Oracle SQL Developer (install) (delete)
  - EndNote X4 (optional) (delete)
  - Adobe Dreamweaver CS6 (install) (delete)

Resolved Packages:
  - Oracle SQL Developer (install)
  - EndNote X4 (optional)
  - Adobe Dreamweaver CS6 (install)
  - CoRD (install)
  - Administrator Access – All (install)

Add Package

Package
  -- Choose one --

Type
- Install
- Update
- Optional install
- Uninstall

Add

Add Group

Group
  -- Choose one --

Add

Change Catalog

Catalog
- Default
- Production
- Testing
- Development

Save

Purge Computer

This will remove this computer and all associated packages.
Hostname: simba
Ethernet address: e8:06:88:cd:3b:9b
Generated UID: 6C88D0C9-C0D3-40D9-BD28-BA539F480BB2
Catalogs: [Testing]
Last manifest check in: Tue Jun 19 2012 11:53:56 GMT+1000 (EST)
Demo
Google Code Project/Wiki
http://code.google.com/p/munki/

Munki Google Group
http://groups.google.com/group/munki-dev
MacTech Articles – Munki

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