OS X Imaging, Software and Policy Deployment with Linux Services

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Overview

- This workshop will be interactive and hands-on

- These slides should be used as reference materials

- For each topic, we will examine the code and see how it is applied

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XWII

The long way...

- Manually installing software and settings

- Monolithic imaging

- Personal ownership and AppleCare

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XWII

Managed Operating Environment

- Software and license management

- Configuration setting policy enforcement

- Printers and other miscellaneous tasks

Initial outlays and longterm costs

- Migration and training

- Hardware

- Maintenance and licenses

Best of both worlds?

- Use existing infrastructure

- Integrate with services already provided

- Require minimal, if any additional training

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XWII

Network-based Imaging

- DHCP - Apple options

- TFTP - kernel and extensions

- HTTP - Netinstall image

Let's image

1. Examine the DHCP configuration requirements

2. See how NetInstall images are created

3. Boot our machines off the network

Then what?

- Custom Setup Assistant

  - Install combo update and Policy Manager

  - Set EFI password, timezone, etc.

  - Sync with local ntp time server

  - Create universal static accounts, such as administrator

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XWII

Policy Enforcement

- Policy Manager

  - Policy enforcement hooks

    - Startup

    - Login

    - Sleep/Wake

  - Update Policy

Redlands Updater

- Application in Utilities folder

- Can be run by policy enforcement hook/s or administrative user

- Polls repository for new packages

Repository structure

- install

  - FTP client and setup script

- postinstall

  - Any other universally installed packages

- pool

  - Location for all other packages

- dist

  - Groups and associations

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XWII

IP octet-based groups

- Example octet-based associations

  - 10 - all machines in organisation

  - 10.6 - all "fixed asset" student machines

  - 10.6.122 - all machines in a particular lab

  - 10.6.122.4 - specific machine

Questions?