

Hardware, Software and Network Deployment

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Installing a New Client Computer

- Reformat vs. not reformat
- Partitions
- Journaling
- Full drive reconditioning

Reformat/not format

- Archive & Install?
- Otherwise -> reformat

Journaling

- First introduced for OS X Server
- Fewer file system errors
- Slight cost of speed, probably negligible on today's hardware

When you enable journaling on a disk, a continuous record of changes to files on the disk is maintained in the journal. If your computer stops because of a power failure or some other issue, the journal is used to restore the disk to a known-good state when the server restarts.

With journaling turned on, the file system logs transactions as they occur. If the server fails in the middle of an operation, the file system can "replay" the information in its log and complete the operation when the server restarts.

Full Drive Reconditioning

- If you re-image, reformat
- A zero-all-data wipe may help identify hard drives with write failures
- A disk surface scan (requires 3rd party product) will identify read failures

Windows Partitions

- FAT32 - read/write, has filesystem limits
- NTFS - modern Windows file system, read-only on Mac (3rd party solutions can write)

Installing Base OS

- Use Customize
 - Need every language & printer?
- Other parts of default install
 - Generally, a factory Mac install without iLife
- Migration Assistant

Software Updates

- Wait 24 hours after release
- Combo updates vs. delta updates

User account types

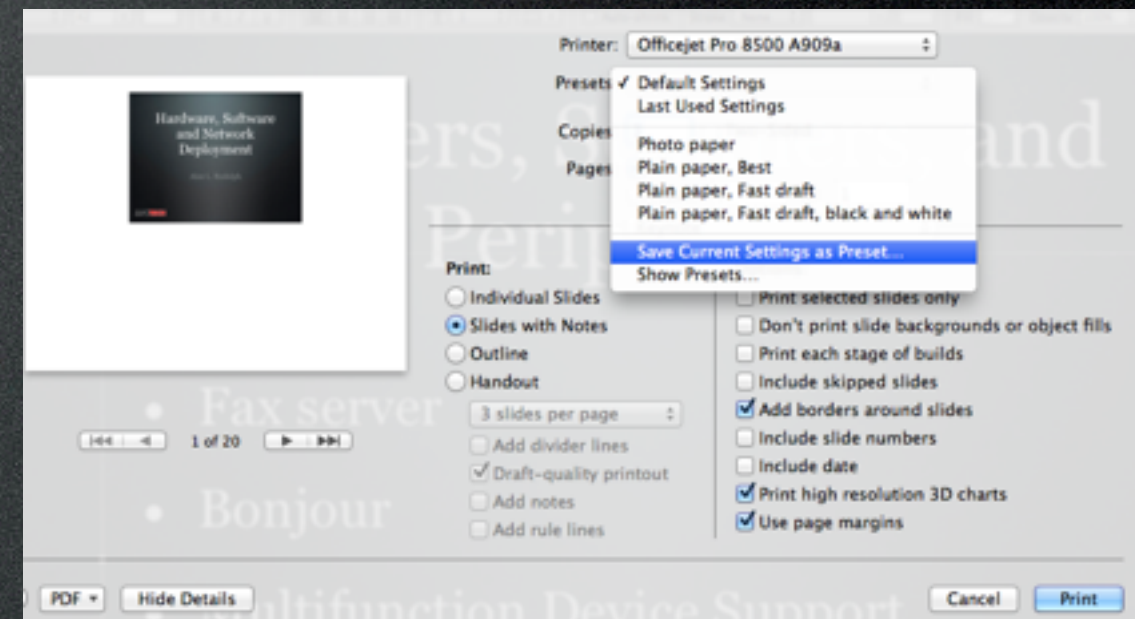
- 2 admin: one for tech and one for user
- Root user is dangerous
- Standard user goes to admin
- Guest Access
- Sharing User

Password Strength

- 8 chars min - ideally, mixed letter cases, numerals, other characters... [#)&;(!'\$
- Password manager - Keychain
- (Don't) Auto-login
- Policies can be enforced by Open Directory in Mac OS X Server

Printers, Scanners, and Peripherals

- CUPS
- Fax server
- Bonjour
- Multifunction Device Support
- Sharing Local Printers
- Using Presets



Target Disk Mode: What is it?

- Disk recovery, Migration Assistant, or just a quick file transfer
- Not all systems supported (i.e., early MacBook Air)
- Doesn't work?--- remove HD and try a SATA adapter

iOS Devices for Individuals in a Group

- Up to date on OS software
- Managing group of iOS devices
 - Mountain Lion Profile Manager
 - PC integrated environments may be able to use other solutions (IBM “BigFix” Tivoli)

Managing Serial Numbers

- Site licenses
- Sassafra, CA, others provide license auditing
- Use a database

Fundamental Networking Principles

- IPv4 vs. IPv6
- Private vs. Public IPs
- Static vs. Dynamic IPs
- Subnet Mask

Fundamental Networking Principles

- What is a MAC address?
- DNS - the “phone directory” of names and IP address
- Manual Ethernet Configuration
- 802.1X Authenticated Networking-- use WPA2

Fundamentals of Wireless Networks

- Private and Guest Networks
- Security - WPA2, or be spied on!
- Built-in Firewall
- Wireless Bridging

VPN

- What are they?
- Why use them?
- Built-in VPN
- VPN tracker
- IPSecurities

Creating Master Image

- Cloning a model system
- Why and what to put in it?
- Building a modular image
- Preparing module image
- Cloned system images vs. Module restore images

Deployment

- Deploying items to multiple computers
- System Deployment
- Software Update Server, ARD, Asset Management,
- Benefits of Installation Package