Beginning System Administration DeCal

Week 5

March 16, 2009

Types of Accounts

inst `*.cs.berkeley.edu`, EECS instructional servers

OCF `*.ocf.berkeley.edu`, Open Computing Facility

vservers `decal.ocf.berkeley.edu`, virtual servers

*NIX User Accounts

- Users, User Groups
- Super-Users
  - root,wheel
- Local Users
  - system accounts
- /etc/passwd, /etc/groups
- /etc/shadow

*NIX Filesystem Structure

/	Root directory
/bin	Binaries
/sbin	System binaries
/home	Home directories
/usr	User Shareable
/dev	Devices
/var	Variable data
/tmp	Temporary files
/boot	Boot files
/proc	System hardware and processes
/etc	System configuration

Administrivia

- email to *both* facilitators
- put `inst` logins on HW/labs
- Homework/Lab comments
    - permissions
    - format: input/output/comments
- project groups

Server Daemons

- Programs that provide services
- 'Listen' for requests
- Application Level
  - Protocols - HTTP, FTP, DHCP, DNS
  - Ports - 1-1024, 1025-65535
- Examples
  - Web, SSH, FTP
- Distribution by Source

Package Installation

Source to Application

- ▶ Acquire source packages
  - ▶ Check file signatures, hashes, checksums
- ▶ Read README, INSTALL files first

./configure	Configuration Options
make	Compile the software
make install	Install the software

- ▶ Additional configuration with .conf files