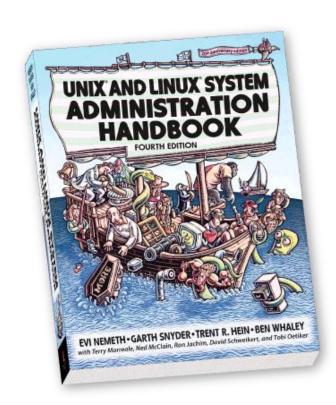
Network Administration

Syllabus

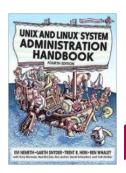
- ☐ Website:
 - http://people.cs.nctu.edu.tw/~huanghs/course/netadm2012/
- ☐ Instructors:
 - 黄懷陞 huanghs@cs.nctu.edu.tw
 - 蔡佳宏 chiahung@cs.nctu.edu.tw
 - 劉用翔 liuyh@cs.nctu.edu.tw
- ☐ Time:
 - Tue. IJK (PM 6:30 ~ 9:20)
- □ Place:
 - EC122
- ☐ Course Newsgroup
 - cs.course.netadmin
- \Box TAs:
 - We have 4 TAs. (TBA)
 - Email to TAs: <u>ta@nasa.cs.nctu.edu.tw</u>
 - IRC channel



Syllabus -

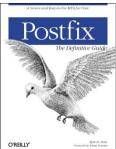
Course Textbook and Reference

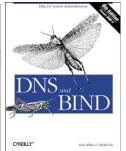
- ☐ Textbook
 - UNIX and Linux System Administration Handbook, 4th ed.
 - Slides
- ☐ Reference book
 - TCP/IP Illustrated Volume 1
 - Programming Perl
 - Postfix
 - DNS and BIND
 - SNMP, SNMPv2, SNMPv3 and RMON 1, 2













Syllabus – Course Overview

- ☐ Main topics
 - Perl Programming
 - Networking
 - > TCP/IP Networking
 - ➤ Network Environment
 - > NAT, DHCP, Firewall, FTP, VPN, Proxy, ...
 - DNS -- BIND
 - Mail System -- Postfix
 - > SPF, DKIM, ...
 - PGP -- Pretty Good Privacy
 - Usenet -- INN
 - Network Management

Syllabus – Grade Policy

- ☐ Mid
 - 20%
- ☐ Final
 - 20%
- ☐ Exercise
 - 60 ~ 72%
 - ➤ No Delay Work
 - > 4 exercises
 - One term project

Grade will not be normalize. Why?
Do exercise gets points.
Study book gets points.

Syllabus – Prerequisite

- ☐ Background Knowledges
 - It is better to have taken
 - ➤ "System Administration" (計算機系統管理)
 - ➤ "Introduction to Networking" (計算機網路概論)
 - At least
 - Experience of using Unix-like environment
- ☐ Environment
 - One dedicated PC (Or dual OS in your PC, VM is alse accepted.)
 - ➤ With Unix-like OS installed (e.g. FreeBSD, Linux, Sun OS, ...etc.)
 - > FreeBSD is recommended, for the reason TA supports.

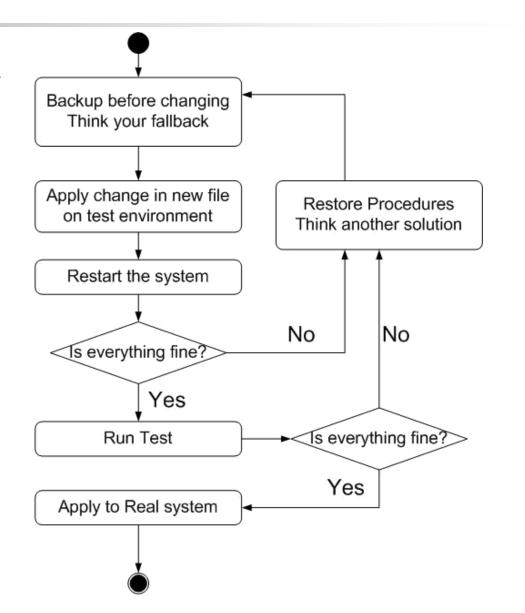
Attitude

- ☐ Attend every class
- ☐ Do every exercise
 - As early as possible
 - On your own
- ☐ Read book and practice at least 6 hours every week
 - Use unix-like environment
 - Recommend: more than 1.5 hours/day averagely.
- □ Collect information on the internet
 - The newer, the better.



When You Perform Any Changes...

☐ Flow of Change



SA-NA Junction

- ☐ FreeBSD
 - 9.0-RELEASE
 - http://people.cs.nctu.edu.tw/~huanghs/course/sysadm2011/slides/GPT_ RootOnZFS_SUJ.ppt
- ☐ Install OS and software (ports)
 - http://www.cs.nctu.edu.tw/~huanghs/course/sysadm2011/
 - http://people.cs.nctu.edu.tw/~huanghs/course/sysadm2011/slides/02_Installing_Applications.ppt