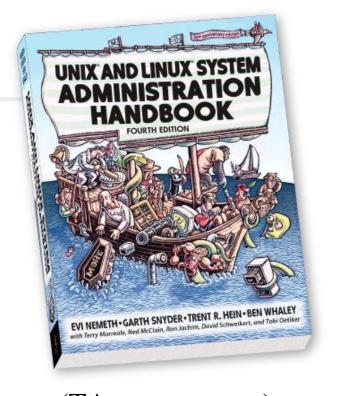
Network Administration

hmwang

Syllabus

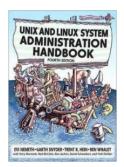
- ☐ Website:
 - e3.nctu.edu.tw
- ☐ Instructor:
 - 王宣閔
 - 吳宗翰
- ☐ Time:
 - Thu. IJK (PM 6:30 ~ 9:20)
- ☐ Place:
 - EC114
- ☐ English Slides and Exams, Chinese Lecture (TAs can support)
- ☐ TAs:
 - Email to TAs: ta@nasa.cs.nctu.edu.tw
 - IRC channel #nctuNASA on freenode → for interactive experience
 - Newsgroup cs.course.sysadmin → for longer discussion, and also for your classmates.
 - BBS bs2.to board CS-NetAdmin
- □ 資安學程 http://isc.cs.nctu.edu.tw/
- □ 大學部雲端系統學分學程 http://delta.nctu.edu.tw/



Syllabus -

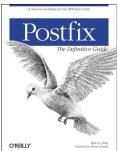
Course Textbook and Reference

- ☐ 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 & Python Programming
 - Networking
 - > TCP/IP Networking
 - ➤ Network Environment
 - > NAT, DHCP, Firewall, FTP, VPN, Proxy, ...
 - DNS BIND (Berkeley Internet Name Domain)
 - Mail System -- Postfix
 - > SPF (Sender Policy Framework)
 - DKIM (DomainKeys Identified Mail)
 - > ...
 - PGP (Pretty Good Privacy)
 - Usenet News INN (InterNetNews)
 - Network Management

Syllabus – Grade Policy

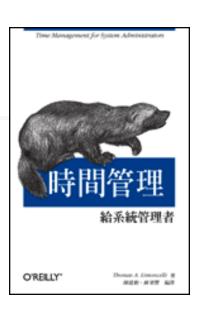
- ☐ Mid
 - 20%
- ☐ Final
 - 20%
- ☐ Exercise
 - 60 ~ 72%
 - ➤ No Delay Work
 - > 5 exercises

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 also accepted.)
 - ➤ With Unix-like OS installed (e.g. FreeBSD, Linux, Sun OS, ...etc.)
 - > FreeBSD is recommended for the reason: TA supports.

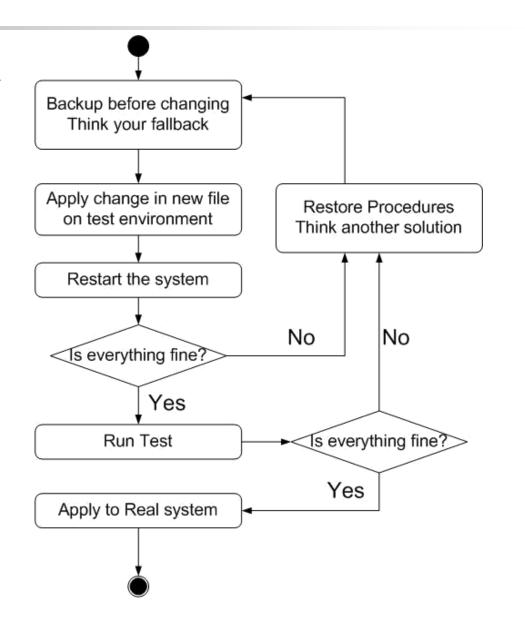
Attitude

- ☐ 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
 - 10.1-RELEASE
 - > ftp://ftp.freebsd.org/pub/FreeBSD/releases/ISO-IMAGES/10.1/

We Want You!

