

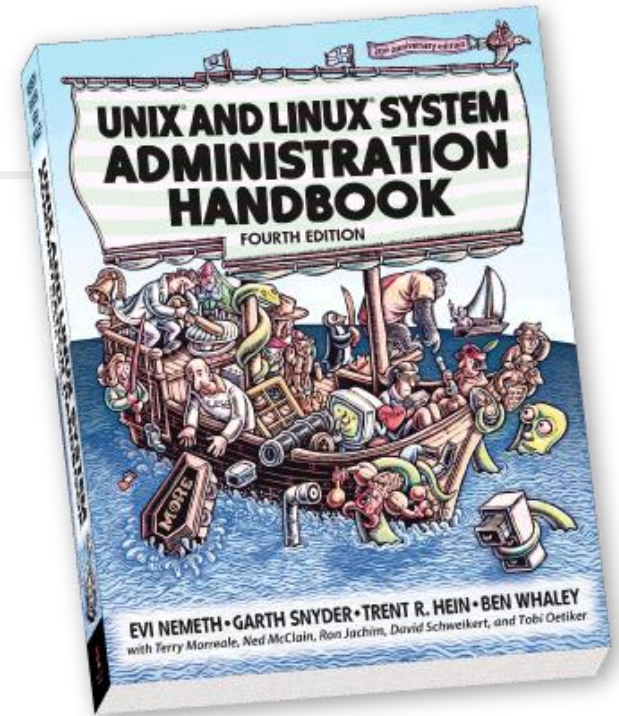


Network Administration Practice

hmwang

Syllabus

- Website:
 - e3.nctu.edu.tw
- Instructor:
 - 易志偉
 - 王宣閔
- 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/>



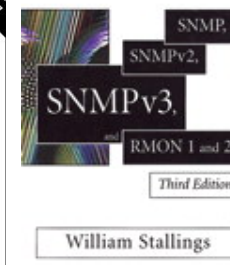
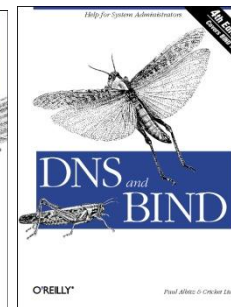
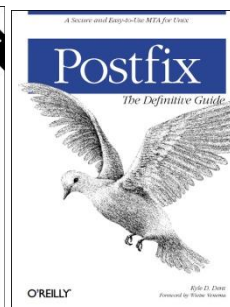
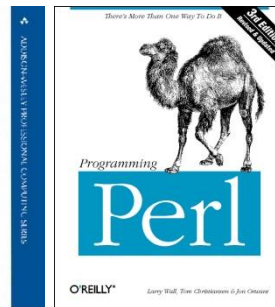
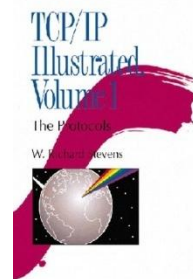
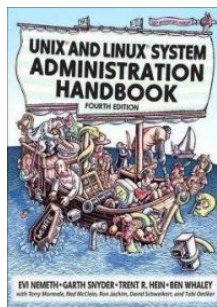
Syllabus – Course Textbook and Reference

❑ 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

- Python Programming
- Networking
 - Routing
 - 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)
 - ...
- 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 Practice” (計算機系統管理實務)
 - “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.

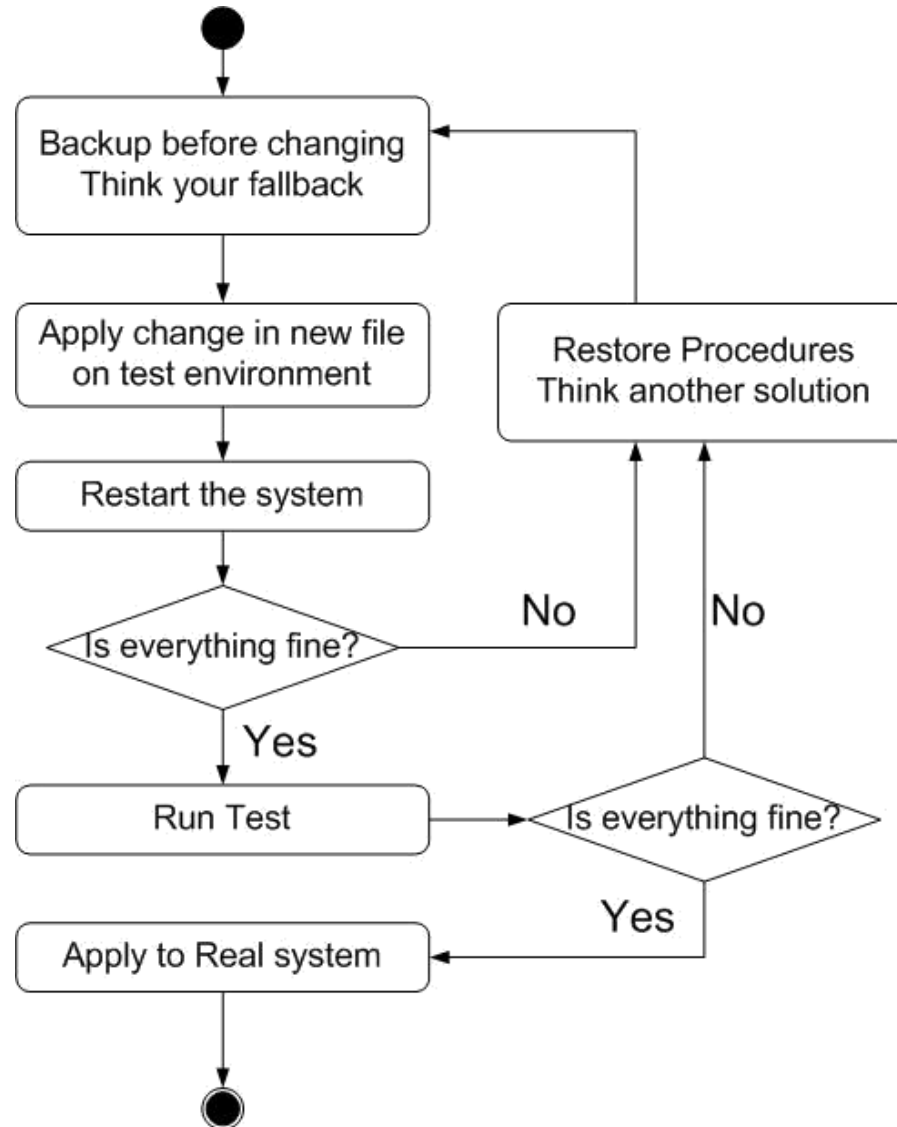
Attitude

- 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!

