



# **System Administration Practice**

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hmwang

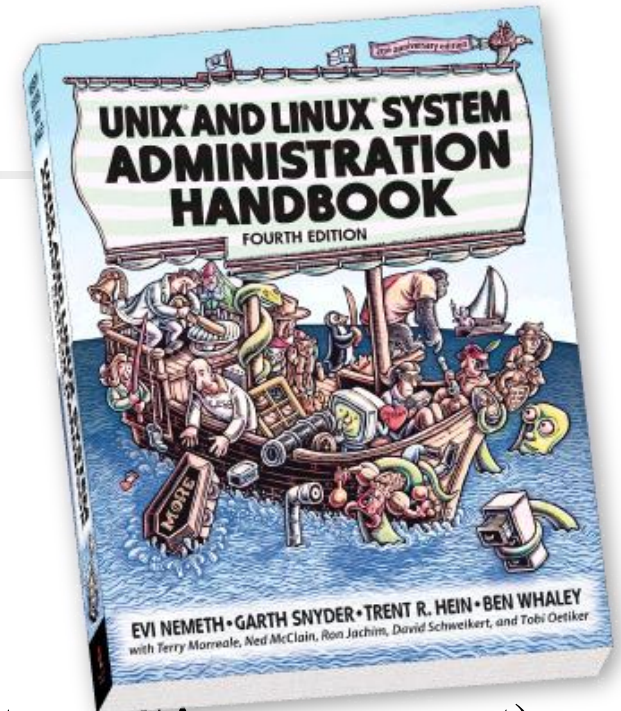
# Important thing!!

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- 這門課升級了!
  - 碩士班課程
  - 請大家選新的課號 5965
  - 系統管理實務

# Syllabus

- Website:
  - [e3.nctu.edu.tw](http://e3.nctu.edu.tw)
- Instructor:
  - 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](mailto: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/>



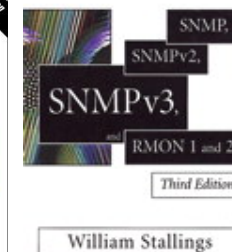
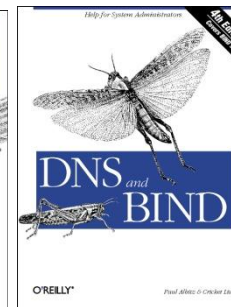
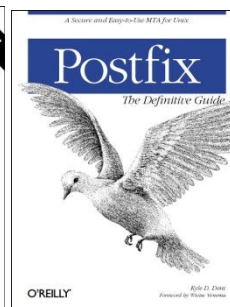
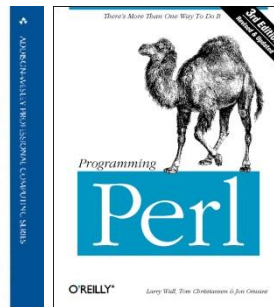
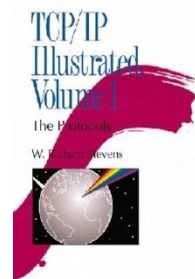
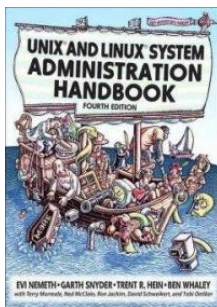
# Syllabus – Course Textbook and Reference

## ❑ 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

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## ❑ Main topics

- FreeBSD Use
- User Management
- ZFS
- System Management
- File System
- Shell Programming
- Processes
- VCS
- Web Services
- Network File System
- System Files
- Security
- Ldap
- Jail
- Backups

# Syllabus – Grade Policy

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## ❑ Mid

- 15~20%

## ❑ Final

- 15~20%

## ❑ Exercise

- 60 ~ 75%
  - No Delay Work
  - 5 exercises

# Syllabus –

## Prerequisite

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### ❑ Background Knowledges

- It is better to have taken
  - “Introduction to Computers and Programming” (計算機概論)
  - “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

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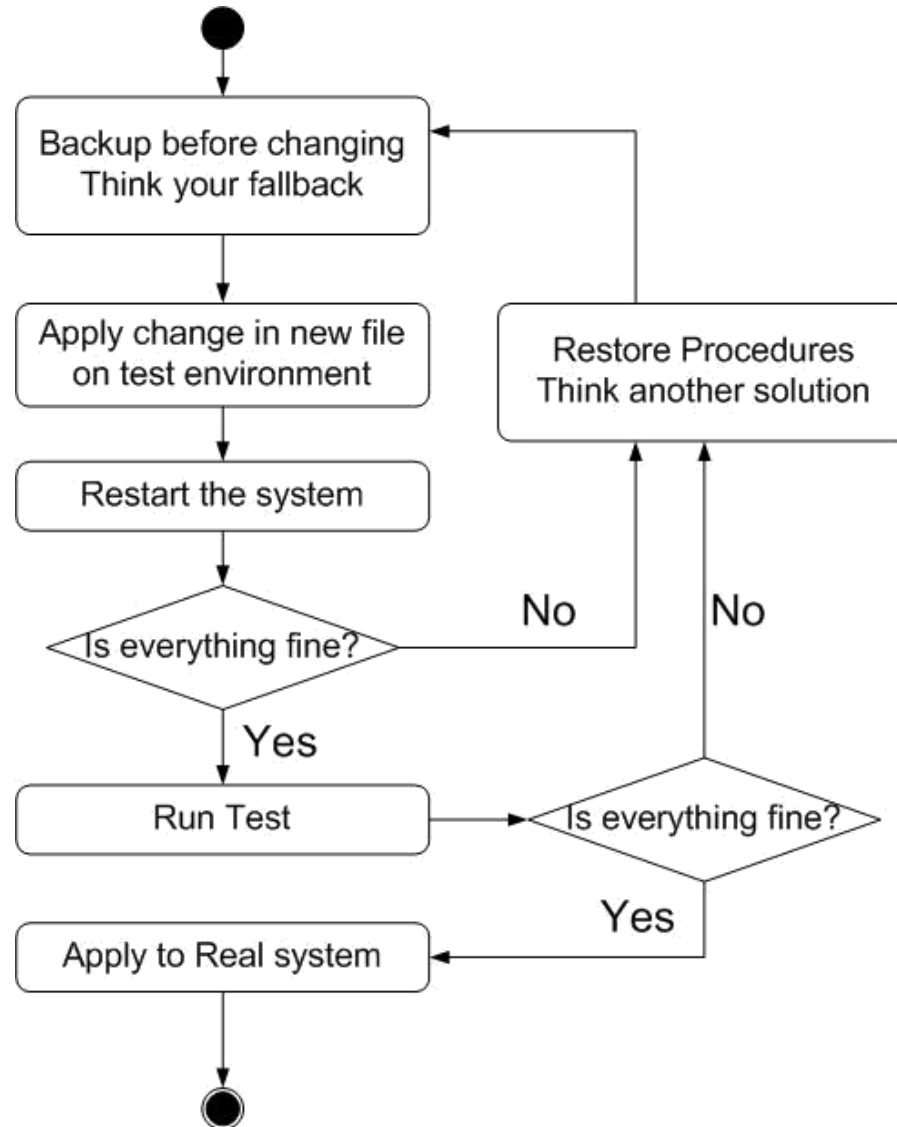
- Attend every class
- Do every exercise
  - As **early** as possible
  - **On your own**
- Read book and practice at least 6 hours every week
  - Use unix-like environment
  - Recommend: more than 1.5 hours/day averagely.
- Collect information on the internet
  - The newer, the better.





# When You Perform Any Changes...

## □ Flow of Change



# SA-NA Junction

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## ❑ FreeBSD

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

# We Want You!

