System Administration Practice Homework 1-1 : FreeBSD Base

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Requirements

❑ Basic

- FreeBSD Base
  - ➢ 10.1-Release
  - ➢ Don't use other version
- Add a user
  - ➢ User should also be in the 'wheel' group
  - ➢ Use this user to do this homework instead of root
- Set your machine to current time zone and adjust current time
- Enable *sshd*

Timezone

❑ These must be do as root or using sudo

❑ bsdconfig
  or

❑ tzsetup
  or

❑ Find right timezone file in /usr/share/zoneinfo and copy to /etc/localtime
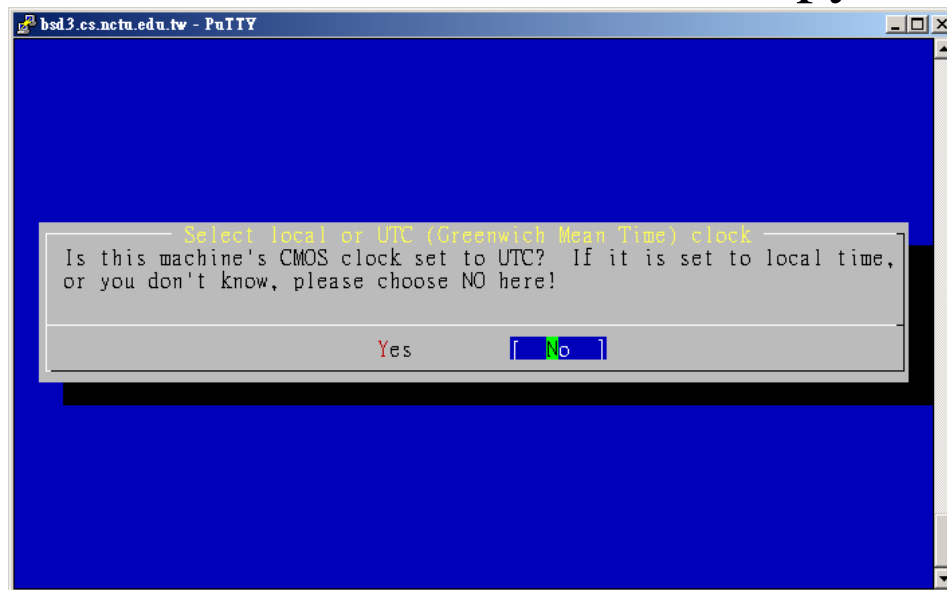
Submission

$: shell prompt

❑ Login with the user you created

❑ $ rm -f /tmp/sahw1-1.tmp

- Perform this as root if it cried about 'Permission denied'

❑ $ uname -a >> /tmp/sahw1-1.tmp

❑ $ date >> /tmp/sahw1-1.tmp

- Please keep your language settings as English (en-US)

❑ $ id >> /tmp/sahw1-1.tmp

❑ $ service sshd status >> /tmp/sahw1-1.tmp

❑ $ mail -s '[SAHW1-1] 0005566' sahw1@nasa.cs.nctu.edu.tw < /tmp/sahw1-1.tmp

Check submission result

❑ Web page at https://nasa.cs.nctu.edu.tw/2015sahw1/

❑ You can submit many times, only the last count

❑ Due: 10/1

FAQ(1/3)

❑ Adjust current time
- ntpdate(8) //non-continuous
  or
- ntpd(8) //continuous
  - ➢ http://www.freebsd.org/doc/en/books/handbook/network-ntp.html
- Server
  - ➢ time.stdtime.gov.tw
  - ➢ tick.stdtime.gov.tw
  - ➢ tock.stdtime.gov.tw
  - ➢ watch.stdtime.gov.tw
  - ➢ clock.stdtime.gov.tw
  - ➢ server 0.tw.pool.ntp.org
  - ➢ server 1.asia.pool.ntp.org
  - ➢ server 2.asia.pool.ntp.org

FAQ(2/3)

❑ My network is not working

❑ VM
- Make sure you have correct VirtualBox/VMWare settings
- Make sure your host computer has Internet access

❑ Install on a real machine
- In your dormitory, switch to windows and authenticate
- Use w3m command line browser
  - ➢ www/w3m

FAQ(3/3)

❑ My WinXP / Win7 / Win8 is gone…
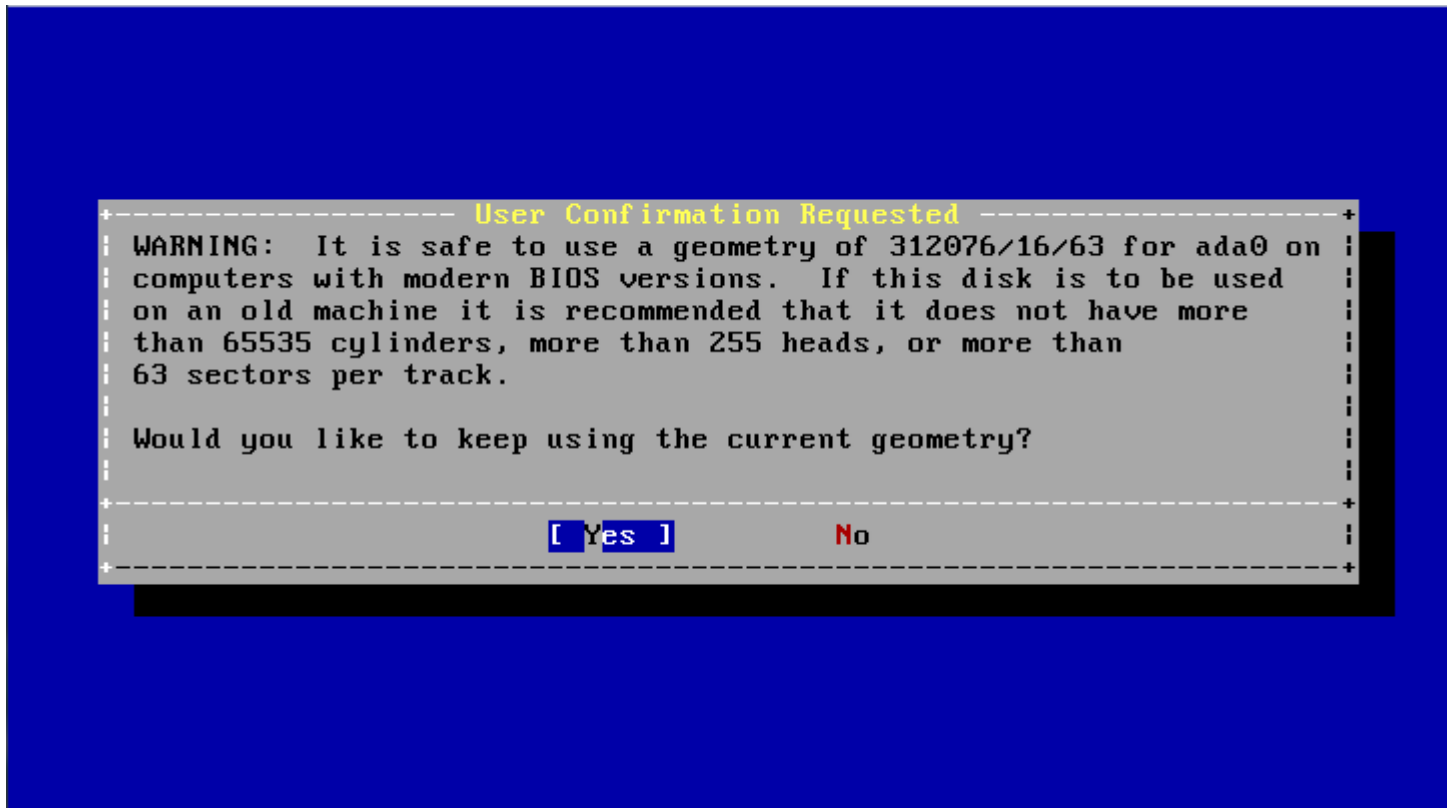
- # sysctl kern.geom.debugflags=16
- # sade => Partition

FAQ(3/3)

❑ Yes

FAQ(3/3)

❑ Select your XP / Win7 / Win8 partition and click **S** to set it bootable

note: Win7's boot partition will be about 100MB

```
Disk name:          ada0                      FDISK Partition Editor
DISK Geometry:    312076 cyls/16 heads/63 sectors = 314572608 sectors (153599MB)

Offset          Size(ST)          End        Name  PType       Desc   Subtype        Flags

         0          2048         2047           -     12     unused         0
      2048        204800       206847      ada0s1      4 NTFS/HPFS/QNX            7 A
    206848     204595200    204802047      ada0s2      4 NTFS/HPFS/QNX            7
 204802048            53    204802100           -     12     unused         0
 204802101     109051803    313853903      ada0s3      8    freebsd       165
 313853904        718896    314572799           -     12     unused         0



The following commands are supported (in upper or lower case):

A = Use Entire Disk    G = set Drive Geometry    C = Create Slice
D = Delete Slice       Z = Toggle Size Units     S = Set Bootable    ¦ = Expert m.
T = Change Type        U = Undo All Changes      W = Write Changes   Q = Finish


Use F1 or ? to get more help, arrow keys to select.
```

FAQ(3/3)

❑ Press W to Write your Changes ; Q to finish

FAQ(3/3)

❑ Install FreeBSD Boot Manager

Help!

- ❏ Newsgroup cs.course.sysadm
- ❏ BS2 board CS-SysAdmin
- ❏ CSCC
- ❏ ta@nasa.cs.nctu.edu.tw
- ❏ IRC channel #nctuNASA on freenode