

System Administration HW1-1

shunyi
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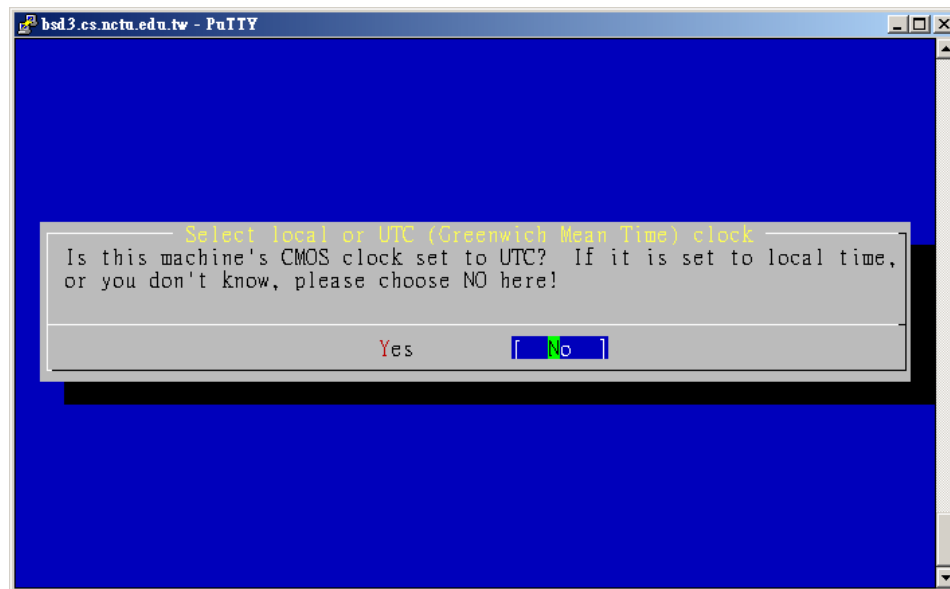
Requirements

❑ Basic

- Install **FreeBSD 9.2-RELEASE**
 - i386
 - ❑ <http://freebsd.cs.nctu.edu.tw/pub/FreeBSD/releases/i386/ISO-IMAGES/9.2/>
 - amd64
 - ❑ <http://freebsd.cs.nctu.edu.tw/pub/FreeBSD/releases/amd64/ISO-IMAGES/9.2/>
- Add a user and a group
 - Group name should be identical to your username
 - User should also be in the ‘wheel’ group
- Set your machine to current time zone **and adjust current time**
- Enable and run *sshd*

Timezone

- ❑ `bsdconfig`
 - ❑ (sysinstall has been replaced by bsdinstall & bsdconfig)
- ❑ `tzsetup`
- ❑ Find right timezone file in `/usr/share/zoneinfo` and copy to `/etc/localtime`



Submission

\$: shell prompt

- ❑ Login with the user you created
- ❑ \$ cd
- ❑ \$ fetch <http://cs.nctu.edu.tw/~shunyi/sahw1-1.sh>
- ❑ \$ sh ~/sahw1-1.sh
- ❑ Key in your student ID while see
“Please input your student ID: ”
then press Enter
- ❑ Check <http://nasa.cs.nctu.edu.tw/sysadm/hw1-1> for your submission.

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
 - 實體機
 - 強烈建議使用測試平台, 免認證

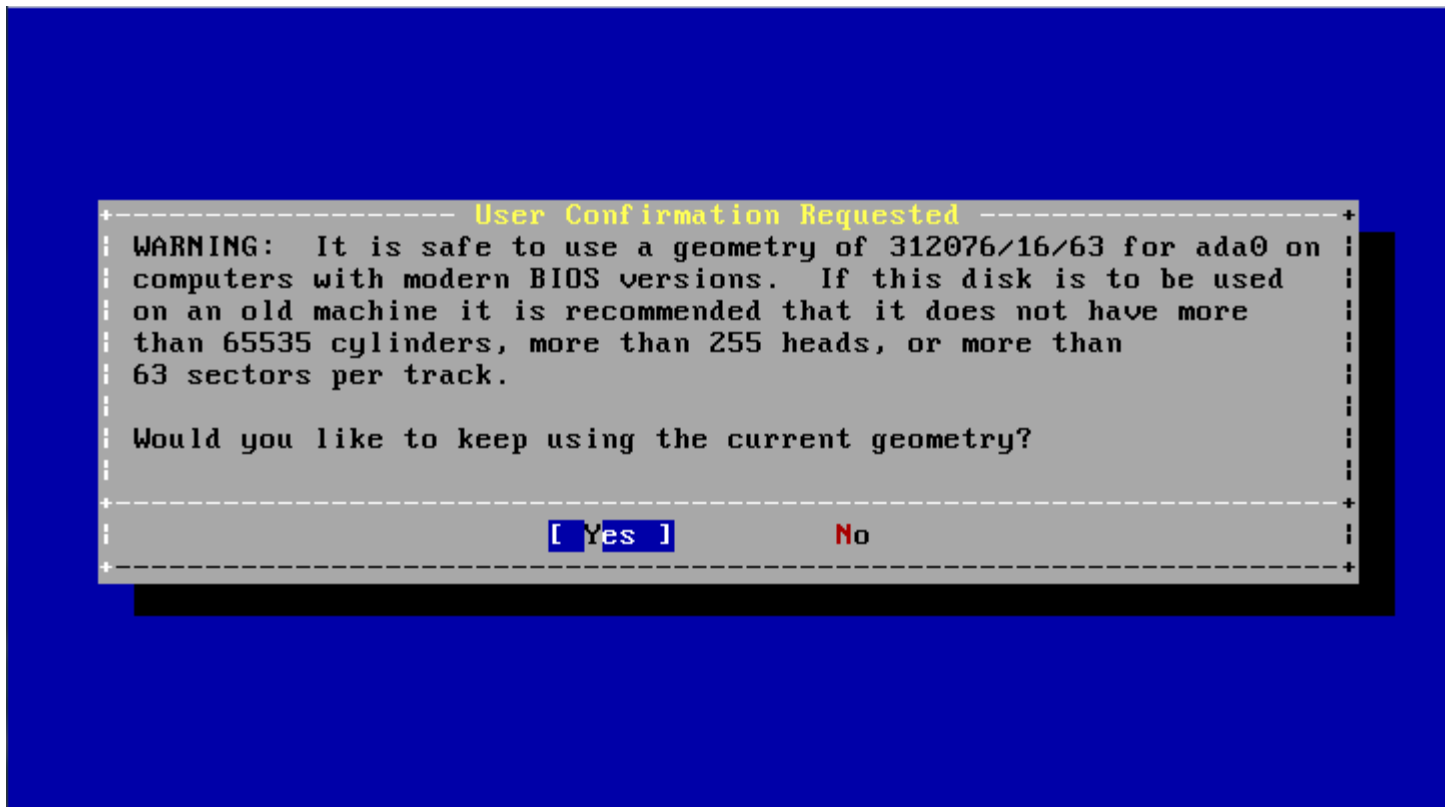
FAQ(3/3)

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

```
----- Disklabel and partitioning utility -----+
This is a utility for partitioning and/or labelling your disks. |
+-----+ |
| 1 Partition  Managing disk partitions | |
| 2 Label      Label allocated disk partitions | |
+-----+ |
|                                     | |
| [ OK ]          Cancel | |
+-----+ |
| [ DISKUTIL ] | |
+-----+
```

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

```

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

+----- User Confirmation Requested -----+
2| WARNING: This should only be used when modifying an EXISTING |
2048| installation. If you are installing FreeBSD for the first time |
2048| then you should simply type Q when you're finished here and your |
3138| changes will be committed in one batch automatically at the end of |
| these questions. If you're adding a disk, you should NOT write |
| from this screen, you should do it from the label editor. |
The f| Are you absolutely sure you want to do this now? |
+-----+
A = U|                                     [ Yes ]      No |
D = D+-----+
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)

❑ Install FreeBSD Boot Manager

```
----- Install Boot Manager for drive ada0? -----
FreeBSD comes with a boot manager that allows you to easily
select between FreeBSD and any other operating systems on your machine
at boot time.  If you have more than one drive and want to boot
from the second one, the boot manager will also make it possible
to do so (limitations in the PC BIOS usually prevent this otherwise).
If you have other operating systems installed and would like a choice when
booting, choose "BootMgr".  If you would prefer to keep your existing
boot manager, select "None".

+-----+
|      Standard      Install a standard MBR (non-interactive boot manager)
|      BootMgr      Install the FreeBSD Boot Manager
|      None         Do not install a boot manager
+-----+

+-----+
|          [ OK ]          Cancel
|          [   ]
+-----+
```

Help!

- ❑ Newsgroup `cs.course.sysadm`
- ❑ BS2 board `CS-SysAdmin`
- ❑ CSCC
- ❑ `ta@nasa.cs.nctu.edu.tw`