System Administration Practice Homework 1-1 : FreeBSD Base

lctseng

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

- \Box \$ rm -f /tmp/sahw1-1.tmp
 - Perform this as root if it cried about 'Permission denied'
- \Box \$ uname -a >> /tmp/sahw1-1.tmp
- □ \$ date >> /tmp/sahw1-1.tmp
 - Please keep your language settings as English (en-US)
- \Box \$ 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</pre>

Check submission result

Web page at <u>https://nasa.cs.nctu.edu.tw/2015sahw1/</u>
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
 - <u>http://www.freebsd.org/doc/en/books/handbook/network-ntp.html</u>
- 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

□ My WinXP / Win7 / Win8 is gone...

- # sysctl kern.geom.debugflags=16
- # sade => Partition

This is a utility for	el and partitioning utility partitioning and/or labelling your	+ disks.
1 Partition 2 Label	<mark>Managing disk partitions</mark> Label allocated disk partitions	
	OK] Cancel [DISKUTIL]	+ + +

Yes



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

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

Disk	name:	adaO				FDISK	Partitio	n Edi	tor
DISK	Geomet	ry: <u>3120</u> 76	cyls∕16 hea	ids∕63 se	ctors =	314572608	sectors (15359	9 <u>MB</u>)
Offs	et	Size(ST)	End	Name	PType	Desc	Subtype	F 1	ags
	Θ	2048	2047		12	unused	Θ		
	2048	204800	206847	ada0s1	4	NTFS/HPFS/Q	NX	7 A	
	206848	204595200	204802047	ada0s2	4	NTFS/HPFS/Q	NX .	7	
204	802048	53	204802100		12	unused	Θ		
204	802101	109051803	313853903	ada0s3	8	freebsd	165		
313	853904	718896	314572799		12	unused	Θ		
The :	followi	ng commands	are support	ed (in u	pper or	lower case	:):		
A = 1	Use Ent	ire Disk	G = set Driv	ve Geomet	ry C	= Create Sl	ice		

```
D = Delete Slice Z = Toggle Size Units S = Set Bootable I = 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.

□ Press W to Write your Changes ; Q to finish

DISK	name: Geometry	<mark>ada0</mark> : 312076	cyls/16 heads	s∕63 se	ctors = 3	FD18K 314572608	Partitio sectors (n Editor 153599MB)
Offse	et	Size(ST)	End	Name	РТуре	Desc	Subtype	Flags
	Θ	2048	2047	_	12	unused	Θ	
2 2048 2048 3138	WARNIN instal then y change these	G: This s lation. I ou should s will be questions. bis scneen	User Confi hould only be f you are ins simply type (committed in If you're a	irmatio e used stallin) when one ba adding	n Request when mod g FreeBSI you're f tch autor a disk, y	led ifying an D for the inished he matically you should	EXISTING first tim re and yo at the en NOT writ	t ne l nur l nd of l .e l
The f	Are yo	u absolute	ly sure you a	ao it Jant to	from the do this	label edi now?	tor.	
The f A = L D - T	Are yo	u absolute	ly sure you i L Yes	ao it Jant to	from the do this No	label edi now?	tor.	+
The f A = L D = I T = (Are yo Change Ty	u absolute	ן you should y sure you ו ך Yes ש = Undo All (ao it Jant to J Changes	from the do this <u>N</u> o W =	label edi now? Write Cha	tor. nges Q =	+t m. Finish

□ 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".

StandardInstall a standard MBR (non-interactive boot manager)BootMgrInstall the FreeBSD Boot ManagerNoneDo not install a boot manager



Cancel

Help!

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