System Administration HW5 Demo Flow

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Remind

Machines

- □ sahome: NFS server, NIS master & client (itself)
- □ saduty: NFS client, NIS slave & client (itself)
- sabsd: both NFS / NIS client

Groups

- **Samaster**: god, can do anything
- **Sysadm:** can access /net/data/sata
- nctucs: normal user

Netgroups

- sa-adm: sysadm, samaster
- □ sa-core: saduty, sahome
- sa-bsd: sabsd, saduty, sahome

Preparement

□ Create these 3 accounts below

sauser

- group: nctucs
- can only login to sabsd
- 🗅 saadmin
 - group: sysadm
 - can login to sabsd, saduty, sahome

🖵 sadog

- group: samaster
- can login to sabsd, saduty, sahome

Base Requirements 80%

NIS / NFS Rup / Ports Tree / Log Server Auto-start all services Auto-mount all folders

WARNING

- You have to reboot all the machines at the very beginning of the demo.
- Please make sure everything is fine!!
 - Login to sabsd as saadmin
 cd /net/data
 - Login to saduty as saadmin
 - cd /net/data/sata

NIS (45%)

- (5%)You have to create a brand new user during demo, its permission will be the same as one of sa{user, admin, dog}.
- We will replace the pre-created account with that during demo time.

□ from public network (5%)

- sauser / saadmin / sadog
 - ssh saduty / sahome (connection refused)
 - ssh sabsd (successful)
- □ from sabsd (5%)
 - sauser / saadmin / sadog
 - ssh localhost (successful)
 - sauser
 - ssh saduty / sahome (connection refused)
 - saadmin / sadog
 - □ ssh saduty (successful)
 - □ ssh sahome (connection refused)

□ from saduty (5%)

- saadmin / sadog
 - ssh sabsd / saduty / sahome (successful)

□ from sahome (5%)

- saadmin / sadog
 - ssh sabsd / saduty / sahome (successful)

□ from sabsd (5%)

- saadmin / sadog
 - ypwhich (saduty)
 - ypcat passwd (print accounts info)
 - ypcat -x (nickname table)
 - ypcat -k netgroup (three netgroups)

□ from saduty (5%)

- saadmin / sadog
 - ypwhich (saduty)
 - ypcat passwd
 - ypcat -x
 - ypcat -k netgroup

□ from sahome (5%)

- saadmin / sadog
 - ypwhich (sahome)
 - ypcat passwd
 - ypcat -x
 - ypcat -k netgroup
- □ from sabsd (5%)
 - sauser / saadmin / sadog
 - id (show the correct group names)

NFS (15%)

 \Box from sabsd (5%) sauser / saadmin / sadog pwd (show the correct home directory) saadmin showmount -e sahome \Box from saduty (5%) saadmin showmount -e sahome \Box from sahome (5%) saadmin showmount -a mount (nullfs) cat /etc/exports

Rup (5%)

All the machines should be available in rup list

Ports Tree (10%)

□ from sahome (4%)

- ❑ sadog
 - sudo crontab -e (some scripts here)
- □ from saduty (3%)
 - able to install some stuffs from ports
 - □ cat /etc/make.conf (appropriate settings)
- □ from sabsd (3%)
 - able to install some stuffs from ports
 - cat /etc/make.conf (appropriate settings)

Log Server (5%)

□ from sahome

- tree /net/data/ssh
- □ cat one of the log files

Advance Requirements 20%

Sudo FTP Web Server Backup Service Build Kernel

sudo (4%)

from sabsd

- sauser / saadmin / sadog
 - sudo -I (corresponding permissions)

FTP (4%)

- use FileZilla with ftps/ftpes to connect sabsd with sauser
- Check if it chroots to user directory correctly.

Web Server (4%)

- create index.html under ~/public_html on saduty (saadmin)
- use browser to check your \${saduty_domain}/~saadmin/ if it shows the right page

Backup Service (4%)

□ from sahome

- sadog
 - Is -I /net/data/backup

Build Kernel (4%+5%Bonus)

□ show your new kernel size



Bonus 15%

High Availability Web Server

Steps

- Show your web server configuration files on both saduty & sahome
- Stop the web server on saduty & sahome respectively, your service should keep available.