

# **Exercise 5**

## **NFS and NIS**

Announced Date: 2004/11/29

Due Date: 2004/12/17

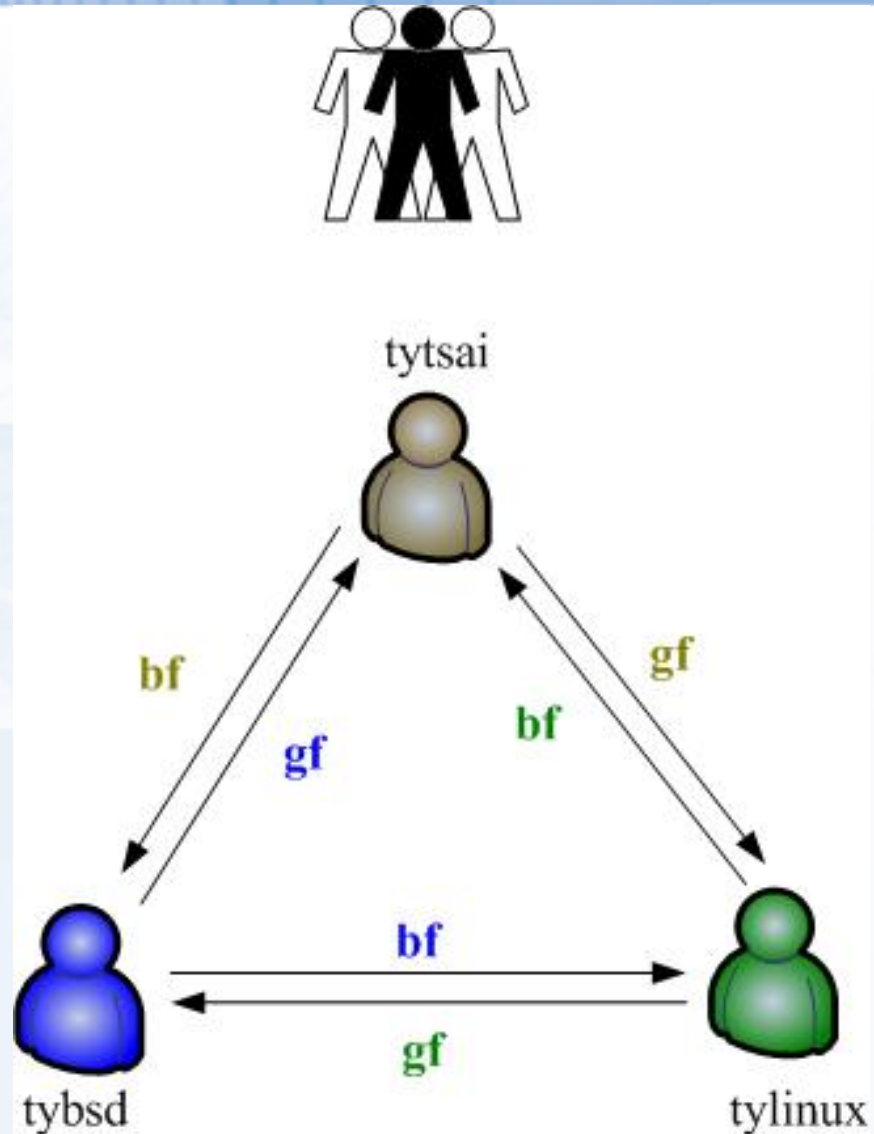
Bonus Due Date: 2004/12/12

# Lab 1 – Play with NFS (1)

- > Find two partners to finish this lab
- > Goal
  - Know how to export NFS
  - Know how to import NFS

# Lab 1 – Play with NFS (2)

> Triangle  
relationship



# Lab 1 – Play with NFS (3)

## > Steps

- Make these directories
  - **% mkdir /home/SA\_*myhostname***
  - **% mkdir /home/bf**
  - **% mkdir /home/gf**
- Edit /etc/export to export /home/SA\_*myhostname*
  - **One for bf, read-only**
  - **One for gf, read-write**
- Edit /etc/fstab to mount
  - **Mount gf's NFS to /home/gf**
  - **Mount bf's NFS to /home/bf**
- Try to do these
  - **% cd /home/bf ; touch got-you**
  - **% cd /home/gf ; touch why**

## Lab 2 – Play with NIS (1)

- > Let one of three be the NIS master, the other two are NIS clients
- > Let another of three be the home server
- > Steps
  - NIS master server build the NIS
    - /var/yp/master.passwd should have two accounts,
      - > **"sapartner1" /home/nfs/sapartner1**
      - > **"sapartner2" /home/nfs/sapartner2**
    - /var/yp/netgroup, add "adm\_user" and let "sapartner1" as member of adm\_user
    - Edit /etc/passwd
      - > +@adm\_user can login to NIS server
      - > + can not login



# Lab 2 –

## Play with NIS (2)

- Home server
  - % mkdir /home/nfs
  - % mkdir /home/nfs/sapartner1; chown ...
  - % mkdir /home/nfs/sapartner2; chown ...
  - Edit /etc/exports to export /home/nfs to the other two hosts, read-write
- The other two hosts
  - mkdir /home/nfs
  - Edit /etc/fstab to mount /home/nfs
- NIS clients bind NIS
- Try to login to these three machine using “sapartner1” and “sapartner2” accounts

# Lab 3 – Play with amd and NIS

## > Modify NIS server

- Use amd auto.home to tell others where to find NFS

```
sa      host==home-server;type:=link;fs=/home/amd  
        host!=home-server;type:=nfs;rhost=home-server; opts:=nfsv3,rw,grpquota,  
intr,soft,nodev,nosuid,rsrvport,timeo=10,retrans=5,nqnfs
```

- Add two entries in /var/yp/master.passwd
  - **"sapartner3" /net/sa/sapartner3**
  - **"sapartner4" /net/sa/sapartner4**

## > Modify Home server

- Make the following directories
  - **/home/amd**
  - **/home/amd/sapartner3**
  - **/home/amd/sapartner4**
- Edit /etc/exports to export /home/amd