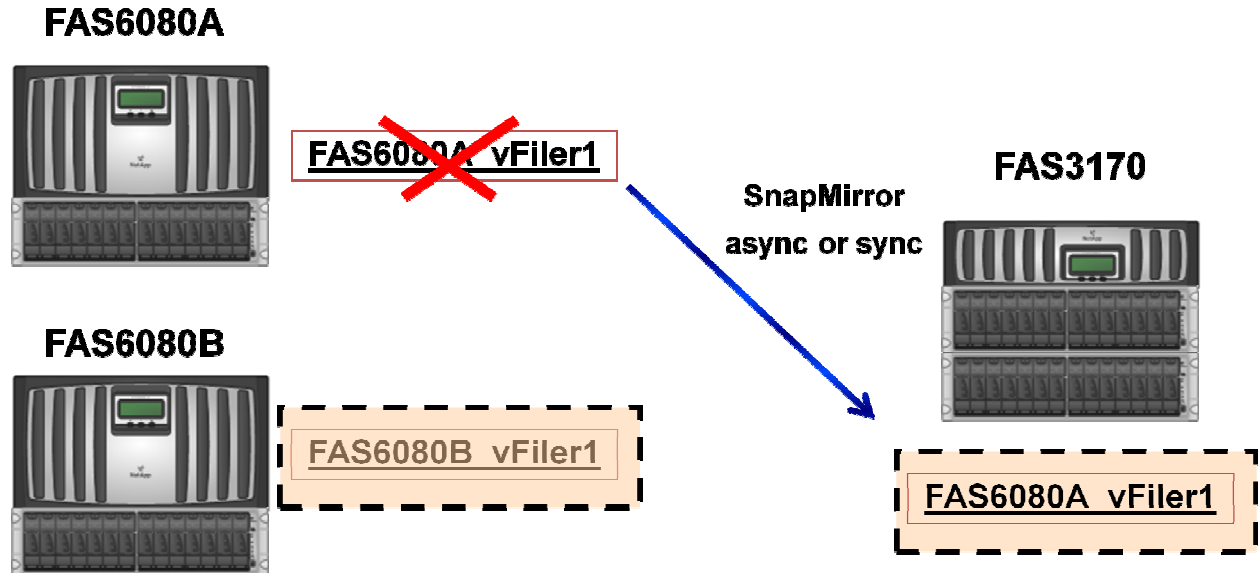


## Lab 4: VFILER Migrate

This lab will cover the vfiler migrate function for fas6080a\_vfiler1 between controllers fas6080a and fas3170.



1. Replace each **vfiler** hosts file with the hosts files below (since we don't have dns running, we need this)

**fas6080a\_vfiler1 - Open hosts in wordpad and edit (replace)**

[\\192.168.150.103\c\\$\vol\fas6080a\\_vfiler1\\_root\etc](http://192.168.150.103/c$/vol/fas6080a_vfiler1_root/etc)

```
#Auto-generated by setup Fri Jul 4 02:11:18 PDT 2008
127.0.0.1 localhost
192.168.150.100 fas6080a
192.168.150.101 fas6080b
192.168.150.102 fas3170
192.168.150.103 fas6080a_vfiler1
192.168.150.104 fas6080b_vfiler1
```

**Fas6080b\_vfiler1 - Open hosts in wordpad and edit (replace)**

[\\192.168.150.104\c\\$\vol\fas6080b\\_vfiler1\\_root\etc](http://192.168.150.104/c$/vol/fas6080b_vfiler1_root/etc)

```
#Auto-generated by setup Fri Jul 4 02:11:18 PDT 2008
127.0.0.1 localhost
192.168.150.100 fas6080a
192.168.150.101 fas6080b
192.168.150.102 fas3170
192.168.150.103 fas6080a_vfiler1
192.168.150.104 fas6080b_vfiler1
```

2. Append the following lines to each **vfiler0** hosts file (since we don't have dns running, we need this)

**FAS6080A - Open hosts in wordpad and edit (append)**

[\\192.168.150.100\c\\$\etc](#)

```
192.168.150.101 fas6080b
192.168.150.102 fas3170
192.168.150.103 fas6080a_vfiler1
192.168.150.104 fas6080b_vfiler1
```

**FAS6080B - Open hosts in wordpad and edit (append)**

[\\192.168.150.101\c\\$\etc](#)

```
192.168.150.100 fas6080a
192.168.150.102 fas3170
192.168.150.103 fas6080a_vfiler1
192.168.150.104 fas6080b_vfiler1
```

**FAS3170 - Open hosts in wordpad and edit (append)**

[\\192.168.150.102\c\\$\etc](#)

# use "administrator" "netapp01" since not cached yet

```
192.168.150.100 fas6080a
192.168.150.101 fas6080b
192.168.150.103 fas6080a_vfiler1
192.168.150.104 fas6080b_vfiler1
```

3. **vFiler Migrate** – migrate fas6080a\_vfiler1 from the FAS6080A controller to the FAS3170 without an outage (similar to cluster failover...note this is reliant on final mirror completing on time)

**NOTE: The snapmirror.conf file on the 3170 will update to every 3 minutes (you would change this for a production migration that will happen after some time in the future).**

- fas3170> **vfiler status -a**
- fas3170> **vfiler migrate start -c secure -l root:netapp [fas6080a\\_vfiler1@192.168.150.100](#)**
  - keep the same .103 IP
  - use "ns1" as the interface
- fas3170> **vfiler migrate status fas6080a\_vfiler1@192.168.150.100**
- fas3170> **snapmirror status**

**WAIT UNTIL SNAPMIRROR is INITIALIZED and IDLE for the 3 VOLUMES**

**Complete the migration...the vfiler on the source node stops, a final incremental mirror update is processed and the vfiler comes up on the target**

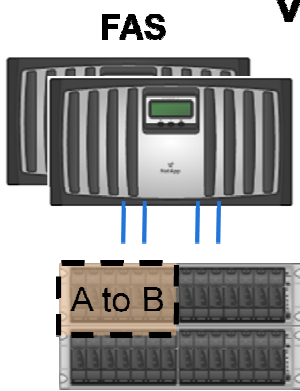
- `fas3170> vfiler migrate complete -c secure -l root:netapp fas6080a\_vfiler1@192.168.150.100`
- **NOTE: The vfiler is moved**
  - `fas3170> vfiler status -a`
  - `fas6080a> vfiler status -a`
- **Confirm CIFS, NFS and iSCSI access is uninterrupted for fas6080a\_vfiler1**
  - NFS
    - `ls /lab2/fas6080a_vfiler1`
  - CIFS
    - [\\192.168.150.103\vfiler1\\_nas](\\192.168.150.103\vfiler1_nas)
  - iSCSI
    - `N:\`

**For NOTE ONLY (not for the lab)**

For SnapMover, we cannot demo in a simulator since we don't have software disk ownership, but see below for more information. The requirement is that the vFiler owns ALL volumes in ALL aggregates used by that vFiler.

**NOTE: SnapMover License (included with MultiStore) for migrate**

## MultiStore® POC Example vFiler migrate with SnapMover



**ONE Step, ONE Command Migration**  
**Disks/LUNs reassign to different physical node**  
**No Data is Migrated**

```
FAS6080B> vFiler migrate -m nocopy fas6080a_vFiler1@192.168.150.100
```

### Requirements

- SnapMover license (included with MultiStore®)
- Disks/LUNs are under software disk ownership
- Disks/LUNs are connected to source/dest nodes

