

## ISSUE: After a reboot of a Linux AhsayCBS server the AhsayCBS NFS service is not automatically starting up

Article ID	Reviewed	AhsayCBS	Operating System
5236	17/03/2017	7.9.0.0 or above	Linux

### Problem Description:

After a reboot of a Linux AhsayCBS server the AhsayCBS NFS service is not automatically starting up. It has to be started up manually using the `%CBS_INSTALL%/nfs/bin/startup.sh` script.

### Cause:

The AhsayCBS NFS service symlinks in `/etc/rc.d/rc2.d/ ... /etc/rc.d/rc5.d/` are broken or not created for the current runlevel 2 to 5.

### Resolution:

To resolve this issue, please re-install the AhsayCBS NFS service.

Assumption: `%CBS_INSTALL%` = `/usr/local/cbs`

**Note:** The following example is based on a CentOS 6.4 (Final) installation.

1. Login to AhsayCBS server as root.
2. `cd /usr/local/cbs/nfs/bin`
3. Run the following script to uninstall the NFS service: `sh uninstall.sh`

```
# sh uninstall.sh
Log Time: Wed Mar 15 15:54:29 HKT 2017

Verifying current user privilege ...
Current user has enough privilege to "uninstall".

Try to shutdown [ NFS Service (Ahsay Systems Corporation) ]
Stopping NFS Service (Ahsay Systems Corporation)
Wait 5 seconds before [ NFS Service (Ahsay Systems Corporation) ] is down
Remove [ NFS Service (Ahsay Systems Corporation) ] (cbsnfs) from service
Uninstall Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Removing symbolic link from run levels
Removing script file cbsnfs from /etc/init.d
```

```
[ NFS Service (Ahsay Systems Corporation) ] uninstall service is complete!
```

4. Run the following script to install the NFS service: sh install.sh

```
# sh install.sh
Log Time: Thu Mar 16 18:45:34 HKT 2017

Verifying current user privilege ...
Current user has enough privilege to "install".

Start configuration on Generic Linux Platform (Linux)
Installing [ NFS Service (Ahsay Systems Corporation) ]
[ NFS Service (Ahsay Systems Corporation) ] Service Script created
at /usr/local/cbs/nfs/bin/cbsnfs
Install Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Copying script cbsnfs to /etc/init.d
Creating symbolic link to run levels
You may start this service by:

sh "/etc/init.d/cbsnfs" start &

[ NFS Service (Ahsay Systems Corporation) ] setup completed!
Startup [ NFS Service (Ahsay Systems Corporation) ]
Starting NFS Service (Ahsay Systems Corporation)
Started [ NFS Service (Ahsay Systems Corporation) ]
```

5. Verify the symlinks have been created for runlevel 2 to 5.

```
# ls -la /etc/rc.d/rc[2-5].d/*cbsnfs*
lrwxrwxrwx 1 root root 18 Mar 15 15:28 /etc/rc.d/rc2.d/S99cbsnfs ->
/etc/init.d/cbsnfs
lrwxrwxrwx 1 root root 18 Mar 15 15:28 /etc/rc.d/rc3.d/S99cbsnfs ->
/etc/init.d/cbsnfs
lrwxrwxrwx 1 root root 18 Mar 15 15:28 /etc/rc.d/rc4.d/S99cbsnfs ->
/etc/init.d/cbsnfs
lrwxrwxrwx 1 root root 18 Mar 15 15:28 /etc/rc.d/rc5.d/S99cbsnfs ->
/etc/init.d/cbsnfs
#
```

6. Verify the AhsayCBS NFS service is running and listening to port 111

```
# ps -ef|grep nfs
root      1723      2  0 14:30 ?          00:00:00 [nfsiod]
root      2636      2  0 15:05 ?          00:00:00 [nfsd4]
root      2637      2  0 15:05 ?          00:00:00 [nfsd4_callbacks]
root      2638      2  0 15:05 ?          00:00:00 [nfsd]
root      2639      2  0 15:05 ?          00:00:00 [nfsd]
root      2640      2  0 15:05 ?          00:00:00 [nfsd]
```

```

root      2641      2  0 15:05 ?          00:00:00 [nfsd]
root      2642      2  0 15:05 ?          00:00:00 [nfsd]
root      2643      2  0 15:05 ?          00:00:00 [nfsd]
root      2644      2  0 15:05 ?          00:00:00 [nfsd]
root      2645      2  0 15:05 ?          00:00:00 [nfsd]
root      3367      1  0 15:28 pts/0      00:00:00
/usr/local/cbs/nfs/bin/NfsLinX64
-logfile /usr/local/cbs/nfs/log/debug.log -pidfile /var/run/cbsnfs.pid
root      3464  2356  0 15:36 pts/0      00:00:00 grep nfs
#

```

```

# netstat -pan|more
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:38533           0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:59270           0.0.0.0:*               LISTEN
                2630/rpc.mountd
tcp        0      0 0.0.0.0:875             0.0.0.0:*               LISTEN
                2626/rpc.rquotad
tcp        0      0 0.0.0.0:35373           0.0.0.0:*               LISTEN
                2685/rpc.statd
tcp        0      0 0.0.0.0:111             0.0.0.0:*               LISTEN
                1596/rpcbind
tcp        0      0 0.0.0.0:80               0.0.0.0:*               LISTEN
                3312/java
tcp        0      0 0.0.0.0:37620            0.0.0.0:*               LISTEN
                2630/rpc.mountd
tcp        0      0 0.0.0.0:22               0.0.0.0:*               LISTEN
                1923/sshd
tcp        0      0 127.0.0.1:631           0.0.0.0:*               LISTEN
                1757/cupsd

```

## Keywords:

symlinks, runlevel, NFS service, Linux, CBS, port 111

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