

# Cluster Management: How can I move /cm/shared to a dedicated NFS server?

*How can I move /cm/shared to a dedicated, off-cluster, NFS server?*

The explanations on how to configure NFS are in the Bright Cluster Administrator Manual.

But here's a recipe for this particular example of moving from a default local /cm/shared that is provided via the head node, to a /cm/shared provided over an external NFS:

Stopping CMDaemon is not needed if there are no services, applications, or environment modules accessing /cm/shared.

This can be checked with an

```
ls of /cm/shared
```

which should show which services (for example, slurmctld and slurmdbd if running SLURM) need to be shut down.

Then, copy the data from the head node's local /cm/shared to the external NFS server. Rsync can do this, with, for example:

```
# rsync -av /cm/shared/ nashost:/cm/shared/
```

Next, add an fsmount entry to the Bright head node:

```
# cmsh
```

```
% device use master
```

```
% fsmounts
```

```
% add /cm/shared
```

```
% set device nashost:/cm/shared
```

# Cluster Management: How can I move /cm/shared to a dedicated NFS server?

```
% set filesystem nfs
```

```
% commit
```

Then, modify the existing /cm/shared fsmount for the regular node categories so that the regular nodes mount /cm/shared from the external NFS server, and not from the head node:

```
# cmsh
```

```
% category use <category-name>
```

```
% fsmounts
```

```
% set /cm/shared device nashost:/cm/shared
```

```
% commit
```

Finally, all /cm/shared@\* entries should be removed from the fsexports entry on the head node. For example:

```
# cmsh
```

```
% device use master
```

```
% fsexports
```

```
% remove /cm/shared@internalnet
```

```
% commit
```

That will remove all /cm/shared entries from /etc/exports on the head node

# Cluster Management: How can I move /cm/shared to a dedicated NFS server?

In the examples above, replace nashost with the IP address or fully-qualified domain name of the dedicated NFS server

Unique solution ID: #1469

Author: Frank Furter

Last update: 2019-06-07 12:04