# Troubleshooting Debathena installation

## Troubleshooting Debathena installation

### OpenAFS modules

If **(a)** you get the error messages

> *Your AFS client does not seem to be working.*

or

> *aklog: unable to obtain tokens for cell athena.mit.edu (status: 11862788)*

after running `renew` or `aklog`, or if **(b)** you get the error message

> *Starting AFS services:*
> *AFS module /lib/modules/2.6.22-14-generic/fs/openafs.o does not exist.*
> *Not starting AFS. Please consider building kernel modules using*
> *instructions in /usr/share/doc/openafs-client/README.modules*

when booting your computer after a kernel update or when `debathena-afs-config` is installing,

You are probably missing OpenAFS modules for your kernel. To fix this problem, choose the option that applies to you:

Recent releases
Old releases, stock kernel
Old releases, custom kernel

> Missing OpenAFS modules is the most common problem, although AFS might fail to restart for other reasons, like that it is in use, or `/var/cache/openafs` is not on an ext2 or ext3 filesystem.

### Recent releases

If you are running a supported distribution either Ubuntu Karmic or newer or Debian Squeeze or newer, then you can simply run

```
sudo aptitude install openafs-modules-dkms
sudo /etc/init.d/openafs-client restart
```

DKMS will automatically build and install modules for your kernel when the kernel is upgraded.

### Old releases, stock kernel

If you are running the stock kernel of a supported distribution either Ubuntu Hardy or older or Debian Lenny or older, then you can use our metapackages to ensure that OpenAFS modules get automatically installed for the most recent available kernel.

On Ubuntu, run

```
sudo aptitude install openafs-modules-generic
sudo /etc/init.d/openafs-client restart
```

Or on Debian, run

```
sudo aptitude install openafs-modules-2.6-686
sudo /etc/init.d/openafs-client restart
```

You may need to specify a flavor other than *generic* or *686* if you are using a kernel flavor other than the default.

## Old releases, custom kernel

If you built your own kernel, then you will also need to build your own OpenAFS modules before you can use AFS.

Needing new OpenAFS modules is also likely the problem if you get the following error message similar when you try to install `openafs-modules-`uname -r`:

> *Couldn't find any package whose name or description matched "openafs-modules-2.6.23"*

To build and install OpenAFS modules for your kernel, run:

```
aptitude install module-assistant;
m-a a-i openafs
```