Configure a client system to use AFS.

Must make a proper Kerberos client, then a proper AFS client.
cgl@afsclient:/$ echo "Kerberos client installation/configuration first."
Kerberos client installation/configuration first.
cgl@afsclient:/$  
cgl@afsclient:/$ sudo apt-get install krb5-user libpam-krb5 libpam-ccreds auth-ccreds auth-ccreds-client-config
cgl@afsclient:/$ echo "Install/configure AFS client packages. One for AFS and one for AFS using Kerberos"
Install/configure AFS client packages. One for AFS and one for AFS using Kerberos

cgl@afsclient:/$
cgl@afsclient:/$ sudo apt-get install openafs-client openafs-krb5
Configuring openafs-client

AFS filesystem is organized into cells or administrative domains. Each workstation belongs to one cell. Usually the cell is the DNS domain name of the site.

AFS cell this workstation belongs to:

```
dsutux.us
```

<Ok>
Configuring openafs-client

AFS uses an area of the disk to cache remote files for faster access. This cache will be mounted on /var/cache/openafs. It is important that the cache not overfill the partition it is located on. Often, people find it useful to dedicate a partition to their AFS cache.

Size of AFS cache in kB:

50000

<Ok>
update-alternatives: using /usr/bin/klog.krb5 to provide /usr/bin/klog (klog) in auto mode.
Setting up openafs-modules-dkms (1.6.1-1+ubuntu0.3) ...
Loading new openafs-1.6.1 DKMS files...
First Installation: checking all kernels...
Building only for 3.2.0-58-generic
Building initial module for 3.2.0-58-generic
Done.

openafs:
Running module version sanity check.
- Original module
  - No original module exists within this kernel
- Installation
  - Installing to /lib/modules/3.2.0-58-generic/updates/dkms/

depmod.................................

DKMS: install completed.
Processing triggers for libc-bin ...
ldconfig deferred processing now taking place
cgl@afsclient:$ echo "That took a long time"
That took a long time
cgl@afsclient:$
cgl@afsclient:/$ echo "Notify AFS client of our cell"
Notify AFS client of our cell
cgl@afsclient:/$
cgl@afsclient:/$ sudo emacs -q /etc/openafs/CellServDB
cgl@afsclient:/$ sudo service openafs-client restart
Stopping AFS services:.
Starting AFS services: openafs afsd.
afsd: All AFS daemons started.
cgl@afsclient:/$
cgl@afsclient:/$ echo "Examine our cell's data"
Examine our cell's data
cgl@afsclient:/$
cgl@afsclient:/$ ls -l /afs/
total 4
drwxr-xr-x 100 root root 4096 Dec 31  1969 dsutux.us
cgl@afsclient:/$ ls -l /afs/dsutux.us/
total 4
drwxrwxrwx 2 root root 2048 Feb 27 10:17 service
 drwxrwxrwx 3 root root 2048 Feb 27 10:29 user

cgl@afsclient:/$ ls -l /afs/dsutux.us/user/
total 2
drwxr-xr-x 3 daemon root 2048 Feb 27 10:29 a

cgl@afsclient:/$ ls -l /afs/dsutux.us/user/a/
total 2
drwxr-xr-x 2 daemon root 2048 Feb 27 10:29 ar

cgl@afsclient:/$ ls -l /afs/dsutux.us/user/a/ar
total 2
drwxrwxrwx 2 root root 2048 Feb 27 10:32 artemis

cgl@afsclient:/$ ls -l /afs/dsutux.us/user/a/ar/artemis/
ls: cannot open directory /afs/dsutux.us/user/a/ar/artemis/: Permission denied
cgl@afsclient:/$
cgl@afsclient:$ echo "Unable to view user's volume without proper credentials"
Unable to view user's volume without proper credentials
cgl@afsclient:$
cgl@afsclient:/$ echo "Acquire the credentials"
 Acquire the credentials
 cgl@afsclient:/$
cgl@afsclient:/$ kinit artemis
Password for artemis@DSUTUX.US:
cgl@afsclient:/$ aklog
cgl@afsclient:/$
Try to view the user's data now that we have credentials

cgl@afsclient:/$
cgl@afsclient:$ ls -l /afs/dsutux.us/user/a/ar/artemis/
total 0
-rw-rw-r-- 1 20000 cgl 0 Feb 27 10:32 sample.txt
cgl@afsclient:$
cgl@afsclient:/$ cd /afs/dsutux.us/user/a/ar/artemis/
cgl@afsclient:/afs/dsutux.us/user/a/ar/artemis$ ls -la
 total 4
drwxrwxrwx 2 root root 2048 Feb 27 10:32 ·
drwxr-xr-x 2 daemon root 2048 Feb 27 10:29 ..
-rw-rw-r-- 1 20000 cgl 0 Feb 27 10:32 sample.txt
cgl@afsclient:/afs/dsutux.us/user/a/ar/artemis$ cat > MyFile.txt
Hello.

I'm creating data from the afs client machine now.

Goodbye.
cgl@afsclient:/afs/dsutux.us/user/a/ar/artemis$
That concludes the client-side setup/configuration/testing of AFS.

Other afs clients can be configured as easily.