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# Installation of openAFS on ARM boxes inside the CERN network:

start from openafs 1.6.2 from openafs.org Note, that 1.6.2.1 already doesn't compile for me. Unknown reason, never checked.

Follow wiki from openafs to compile AFS with kerberos  
<http://wiki.openafs.org/HowToBuildOpenAFSFromSource/>

```
> yum install byacc bison flex
> yum install krb5-libs
> yum install glibc-devel krb5-devel perl-devel ncurses-devel pam-devel
> ./configure --enable-linux-syscall-probing=no --prefix=/usr/local --with-krb5-conf=/usr/bin/krb5-config
```

useful later for debugging:

```
> yum install openldap-clients
```

before starting AFS and kerberos, check that the clock is running OK.

```
cp /usr/share/zoneinfo/Europe/Berlin /etc/localtime
```

```
yum install ntp ntpdate
```

```
copy /etc/ntp.conf from lxplus
```

start ntp, you might need to copy ntpd from lxplus machine

Copy an /etc/init/afs startup file from lxplus to your ARM box and modify paths. (you can compile openafs to have same paths as lxplus to ease things.) Also copy few other files from lxplus (ThisCell, CellDB and others mentioned in the /etc/init/afs file)

Check your hostname !

Create keytab on host and enable ssh with kerberos:

```
> yum install arc mskutil
> yum install perl-XML-Simple perl-WWW-Curl perl-Data-Dumper perl-Authen-Krb5
```

I copied these packages from the CERN SLC6 repository. Then install

```
> rpm -i ~rolf/cern-get-keytab-0.8.1-1.slc5.noarch.rpm ~rolf/CERN-CA-certs-20120322-10.slc5.noarch.rpm
> rpm --nodeps -i ~rolf/cern-config-keytab-1-50.1.slc5.noarch.rpm
> cern-get-keytab
```

```
copy /etc/sysconfig/afs from lxplus machine to ARM copy /etc/krb5.conf from lxplus machine to ARM
```

```
> mkdir /usr/local/cache
```

to install addusercern :

```
> yum install perl-LDAP
> rpm -i ~rolf/useraddcern-0.3-1.slc6.noarch.rpm
```

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Now, ssh to that machine should work. Note, that the AFS token is *not* forwarded, but that can be solved by issuing aklog, e.g. in login files.

For bash and tcsh, add **on the ARM** machine these two files to /etc/profile.d:

```
armmpp001[1]:/etc/profile.d > cat aklog.sh
# run eklog if we login via ssh

if [ -n "$SSH_CLIENT" ]; then
  if [ -n "$KRB5CCNAME" ]; then
    if [ -d /afs/cern.ch ]; then
      if [ -n "$HOSTNAME" ]; then
        if [ $HOSTNAME == "armmpp001.cern.ch" ]; then
          if [ -x /usr/local/bin/aklog ]; then
            /usr/local/bin/aklog
            # echo running aklog
          fi
        fi
      fi
    fi
  fi
fi

armmpp001[1]:/etc/profile.d > cat aklog.csh
# run eklog if we login via ssh

# echo "login csh"
if ($?SSH_CLIENT && $?KRB5CCNAME && -d /afs/cern.ch ) then
  if ( $?HOSTNAME ) then
    if ( $HOSTNAME =~ {armmpp00*.cern.ch} ) then
      if (-x /usr/local/bin/aklog) then
        /usr/local/bin/aklog
        echo running aklog
      endif
    endif
  endif
endif
```

Note: replace "armmpp001.cern.ch" with your \$HOSTNAME

Note: AFS does not start automatically after reboot, F18 uses systemd not init.d at startup. To be fixed in future

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Topic revision: r1 - 2013-05-10 - RolfSeuster



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