A Quick Start Guide to logging onto the LOFAR processing cluster

A detailed description is given in the LOFAR imaging cookbook,

http://www.mpa-garching.mpg.de/~fdg/LOFAR_cookbook/

> ssh -Y <user name>@portal.lofar.eu   (to log onto the cluster)

> ssh -Y <user name>@lfe001   (to log onto the front-end node)

> showsub   (shows sub-cluster layout)

sub	lce-nodes	lse-nodes	cexec-lce	cexec-lse	group	contact
sub1	lce001-lce009	lse001-lse003	lce:0-8	lse:0-2	product.	observers
sub2	lce010-lce018	lse004-lse006	lce:9-17	lse:3-5	TBB	ter Veen
sub3	lce019-lce027	lse007-lse009	lce:18-26	lse:6-8	imaging	Swinbank
sub4	lce028-lce036	lse010-lse012	lce:27-35	lse:9-11	polariz.	de Bruyn
sub5	lce037-lce045	lse013-lse015	lce:36-44	lse:12-14	pulsar	Hessels
sub6	lce046-lce054	lse016-lse018	lce:45-53	lse:15-17	imaging	Heald
sub7	lce055-lce063	lse019-lse021	lce:54-62	lse:18-20	develop.	Romein
sub8	lce064-lce072	lse022-lse024	lce:63-71	lse:21-23	imaging	Heald

There are 8 subclusters, each with 9 lofar computing elements (LCE; where you work) and 3 lofar storage elements (LSE; where the data are stored)

> ssh -Y <user name>@lce019   (to log onto your processing node)

> tcsh   (always switch to tcsh)

> mv .cshrc .cshrc.old   (move any .cshrc file to temp file)

> ln -s /opt/login/cshrc .cshrc   (set-up scripts, links and libraries)

> exit   (exit tcsh)

> tcsh   (switch back to tcsh)

You should now see a welcome message

> use Loflm <day>   (access the Lofar data programmes)

> use Casa   (access CASA)

> use Pythonlibs   (access Python)

> use Karma   (access Karma)

> mkdir /data/scratch/<user name>   (make your working directory)

> cd /data/scratch/<user name>   (move to working directory)