Software

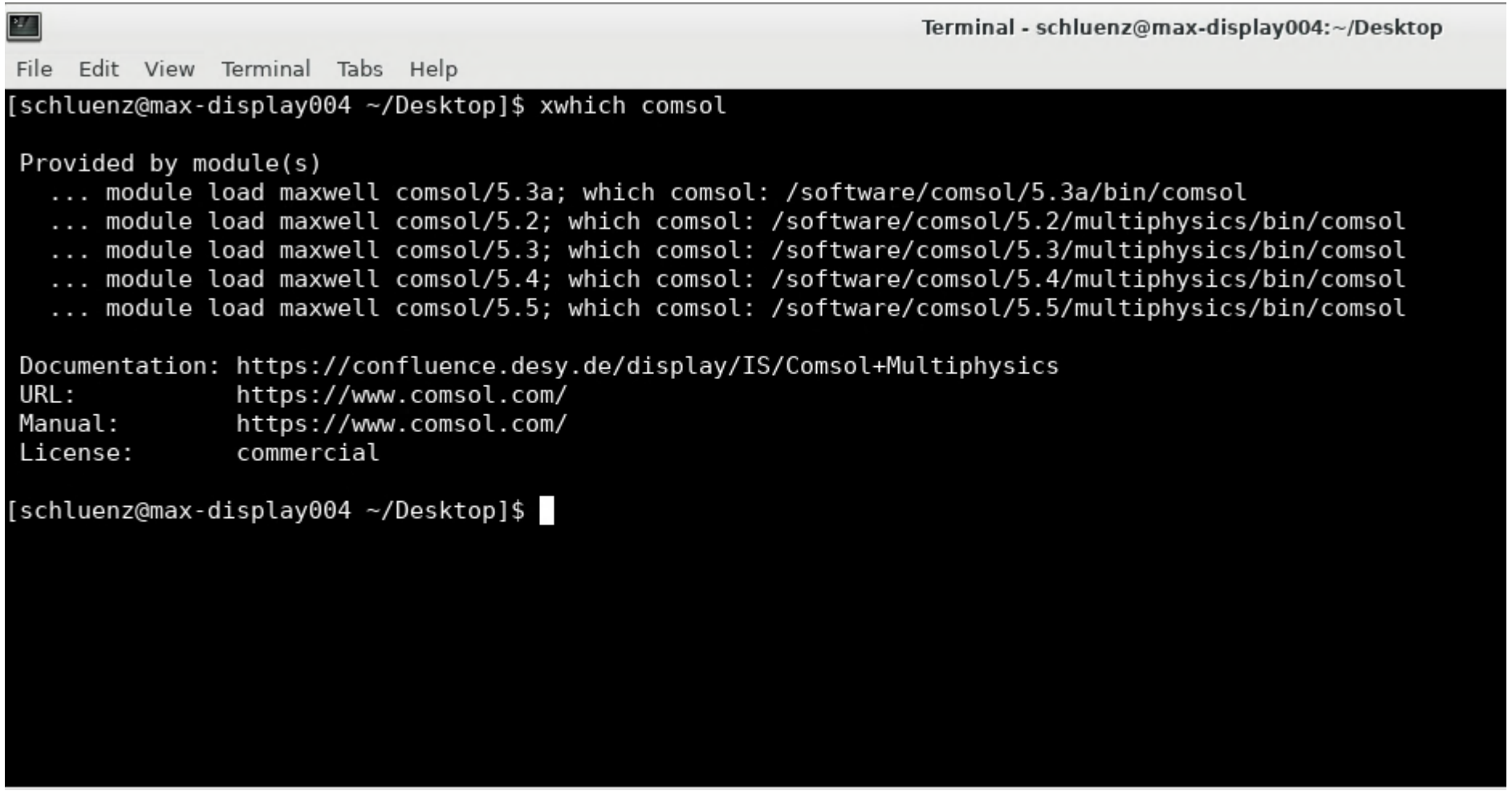
HELMHOLTZ SPITZENFORSCHUNG FÜR GROSSE HERAUSFORDERUNGEN

DESY.

Software in general

See https://confluence.desy.de/display/IS/Software

usually a good idea to check for available versions & setup. On Maxwell cluster:



Utilities - mounting

- https://confluence.desy.de/display/IS/Utilities
  - mount-winhome umount-winhome
  - mount-wingroup umount-wingroup
  - mount-desycloud umount-desycloud

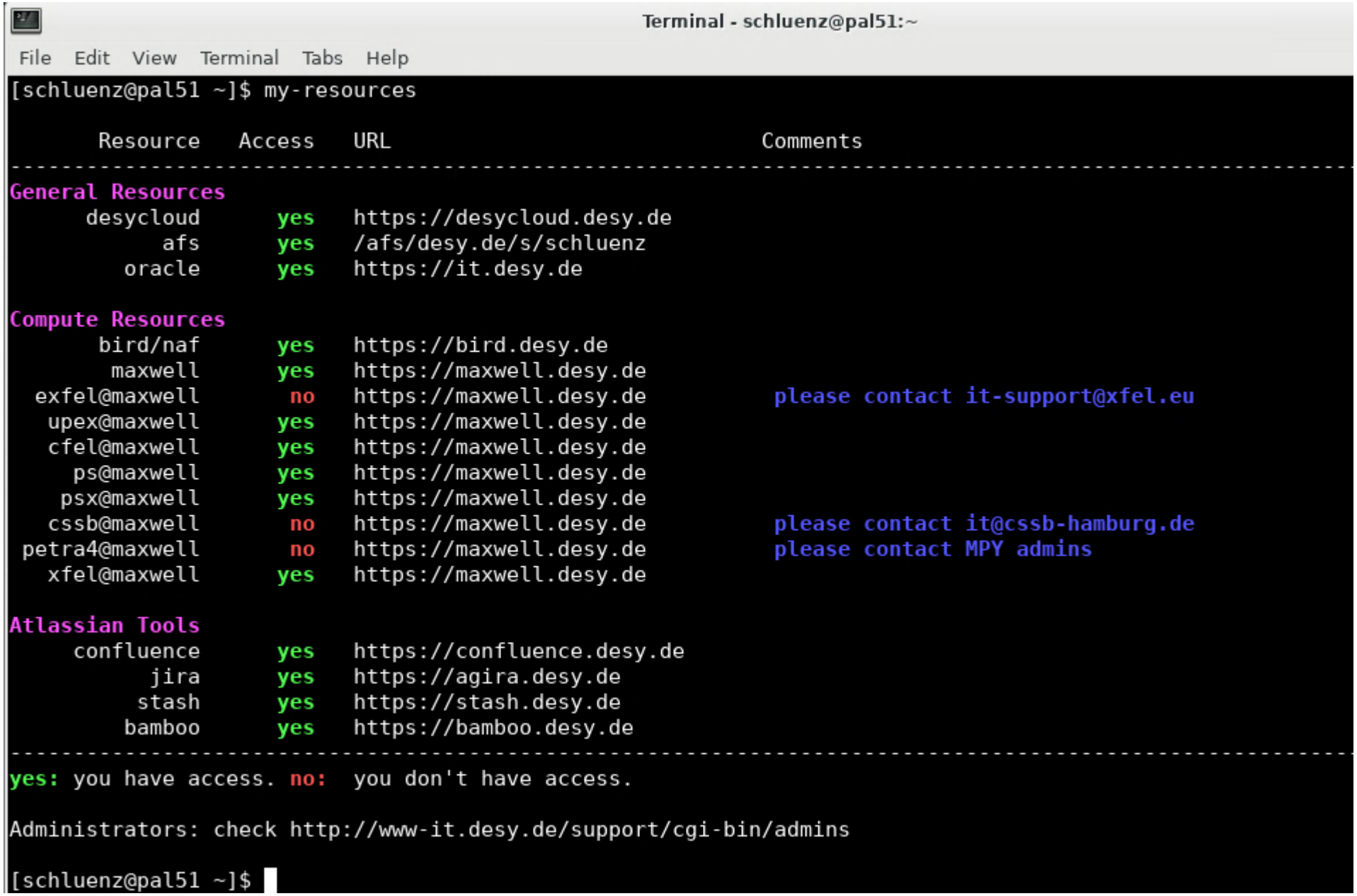
```
[someuser@pal54 ~]$ /usr/local/bin/mount-winhome  # /usr/local/bin/ shouldn't be necessary, would usually be in your PATH
Username [someuser]:
Password:
... successfully mounted ntapwin1.desy.de/someuser$ under $XDG_RUNTIME_DIR/gvfs/smb-share:server=ntapwin1.desy.de,share=someuser$
... accessible under /tmp/someuser/winhome/

someuser@pal54 ~]$ ls -l /tmp/someuser/
total 4
lrwxrwxrwx 1 someuser it 69 Dec  8 21:08 winhome -> /run/user/3904/gvfs/smb-share:server=ntapwin1.desy.de,share=someuser$/

[someuser@pal54 ~]$ ls -l /tmp/someuser/winhome/ | head -2
total 510119
drwx------ 1 someuser it         0 Oct  4 14:02 AppData/

[someuser@pal54 ~]$ /usr/local/bin/umount-winhome
*** Unmounted smb://ntapwin1.desy.de/someuser$

[someuser@pal54 ~]$ ls -l /tmp/someuser/
total 0
```

Utilities - mounting

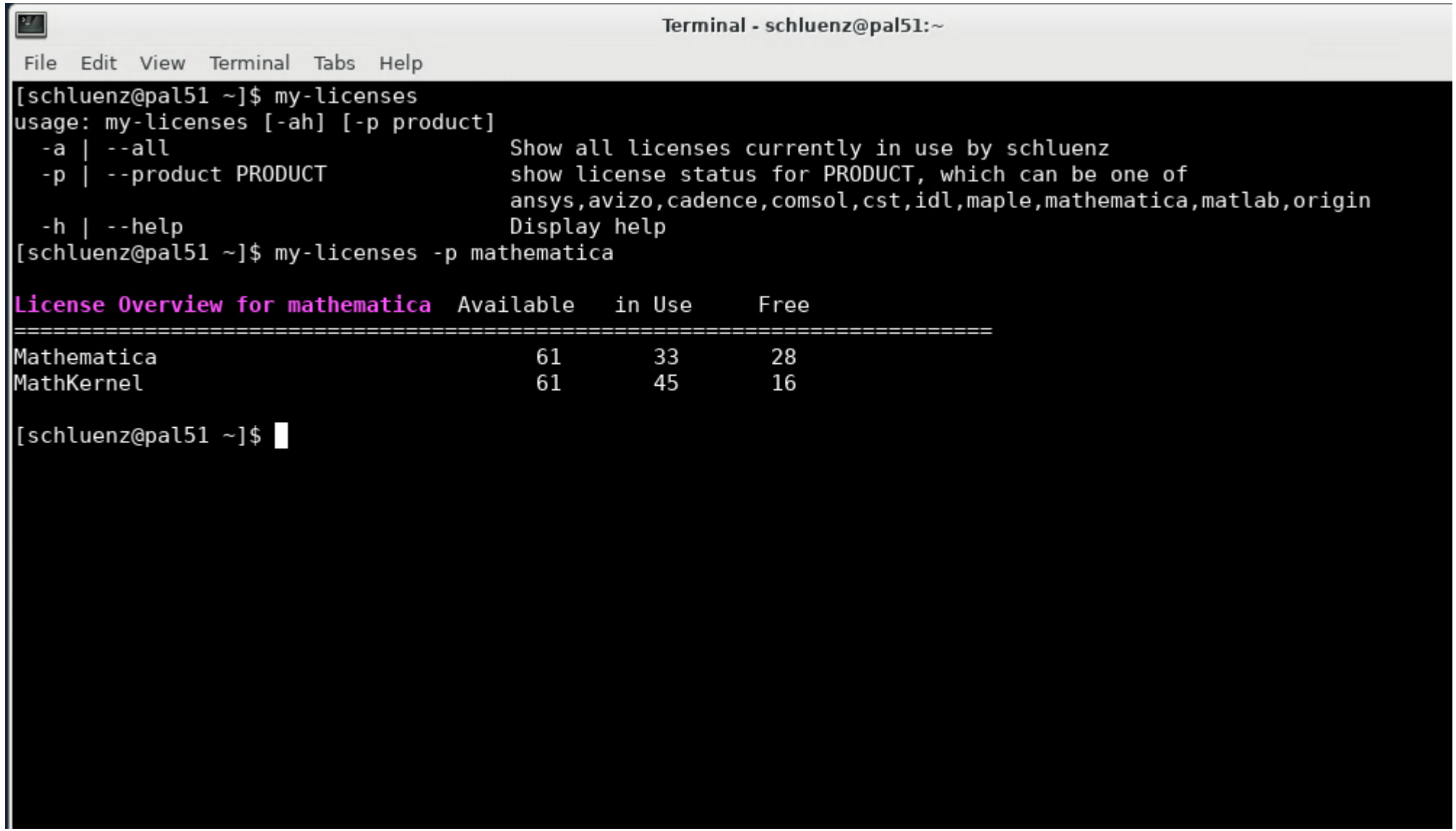
- https://confluence.desy.de/display/IS/Utilities: some hints for krb/afs handling, upload cloud (confluence)

```
# You first need to create a personal keytab. Whoever has access can generate a kerberos-ticket on your behalf so keep it save.
# cd $HOME/.ssh
ktutil
  ktutil:  addent -password -p your-username@WIN.DESY.DE -k 1 -e aes256-cts
  Password for username@WIN.DESY.DE: [enter your password]
  ktutil:  wkt windows.keytab
  ktutil:  quit

# try it out
[someone@node ~]$ klist
klist: No credentials cache found (filename: )

[someone@node ~]$ kinit -f someone@DESY.DE -k -t $HOME/.ssh/windows.keytab -c $HOME/.ssh/someone.cc
[someone@node ~]$ KRB5CCNAME=FILE:$HOME/.ssh/someone.cc

[someone@node ~]$ klist
Ticket cache: FILE:/afs/desy.de/user/s/someone/.ssh/someone.cc
Default principal: someone@WIN.DESY.DE

# ticket can be used to authenticate for smbclient
[someone@node ~]$ smbclient //ntapwin1.desy.de/someone$  -k
smb: \> ls
[...] # works!
smb: \> quit

# unfortunately currently doesn't work for smb-mounts with gio/gvfs ...
```

Utilities - resources



Utilities - licenses



Commercial Software

Commercial software in DESY repositories

- Not a problem if
  - Software is redistributable
  - Doesn‘t require „personal“ agreement to terms
- Access from outside DESY
  - Almost never an option
  - Licenses usually tied to campus computer and accounts (at least when academic)