

How to map MetaCentrum disks as local (e.g., in VM)

(instructions for CentOS 7, for other distributions see

https://wiki.metacentrum.cz/wiki/Mounting_data_storages_on_local_station)

1. install packages supporting Kerberos authentication and NFS

```
yum install -y heimdal-appl-clients krb5-workstation nfs-utils
```

2. copy Kerberos configuration from skirit

```
scp username@skirit.ics.muni.cz:/etc/krb5.conf /etc
```

3. allow NFS and RPCSEC support

```
modprobe nfs  
modprobe auth_rpcgss
```

4. generate Kerberos ticket (by connecting to MetaCentrum, e.g., skirit)

```
ssh username@skirit.ics.muni.cz "/software/remctl-  
2.12/bin/remctl -d kdccesnet.ics.muni.cz accounts nfskeytab >  
krb5.keytab"
```

5. copy ticket to the local machine

```
scp username@skirit.ics.muni.cz:krb5.keytab /etc/
```

6. start NFS

```
service nfs start
```

7. make a folder for mapping MetaCentrum disk (brno7-cerit in this case)

```
mkdir -p /storage/brno7-cerit
```

8. add entry to the file /etc/fstab

```
echo "storage-brno7-cerit.metacentrum.cz/ /storage/brno7-cerit  
nfs4          sec=krb5              0 0" | sudo tee -a /etc/fstab  
> /dev/null
```

9. mount MetaCentrum disk

```
mount -t nfs4 storage-brno7-cerit.metacentrum.cz:/  
/storage/brno7-cerit -o sec=krb5
```

your MetaCentrum data are in the folder /storage/brno7-cerit/home/username

10. It is also possible to download all above mentioned instruction as a single file

```
wget http://botany.natur.cuni.cz/fer/mountMETA.sh
```

make the script executable

```
chmod +x mountMETA.sh
```

and run the script with your MetaCentrum as a parameter

```
./mountMETA.sh username
```

it is necessary to provide your login credentials three times during the run of the script

11. This is an instruction how to map disk brno7-cerit; if you wish to map other storage you find their names on MetaCentrum Wiki (see link at the top). It is necessary to repeat steps 7-9 for each storage.