

Mount remote Inria's folder on Linux

On Linux OS, you can automatically mount some remote partition at the start of your computer. An easy way is to use the `fstab` file which list the partitions that are mounted at the start. Beware : you can modify the `fstab` file only with root privileges.

First, you need to go in the folder `/mnt`, and to create new folders with root privileges. Those folders would be used to mount the remote partitions. For example, to mount `remote_folder` on `local_folder`, the command-line is :

```
mount <address of the remote host>:<path to remote_folder> /mnt/local_folder  
[options]
```

and the equivalent line inside `fstab` is :

```
<address of the remote host>:<path to remote_folder> /mnt/local_folder  
[options]
```

For more information, you can read : http://doc.ubuntu-fr.org/mount_fstab

In Inria Grenoble Alpes, we have several remote folders :

- `mistis-home.inrialpes.fr:/vol/ral_projets/mistis` (268.4 GB) :
→ a remote folder only for the team, where we can save documents. The Center's IT Services makes several backup of this folder (4 by day, 1 each night, 1 by week). So this is a stable and durable save.
- `ral-nas5.inrialpes.fr:/vol/ral_scratch/scratch/mistis` (1.1 TB) :
→ a shared scratch by the cluster nodes. All the teams can access to this scratch, and there is no backup : when there is no more space on this scratch, the older files are deleted ! It should be used only to stock the data which are needed for the computations on the cluster, or the results of those computations. But then, you have to manage yourself to save those results on an other device.
- `ral-nas6.inrialpes.fr:/vol/temporaire/mistis` (536.9 GB) :
→ a temporary folder only for the team. There is no more support for this folder and the hardware is quite old. You have to use it only to stock a huge volume of data for a short time (some months) before to analyse it, and you have to be able to generate again this data. You have absolutely no warranty and you can lose all your data !

When you are using an other computer than the ones provided by the IT Services, it could be interesting to mount also the Inria's home directory : `mistis-home.inrialpes.fr:/vol/ral_users/mistis` and the folder of the softwares : `soft-serv.inrialpes.fr:/softs/Linux`.

```
## FSTAB FILE : BEGIN  
#  
# /etc/fstab
```

```
#
mistis-home.inrialpes.fr:/vol/ral_projets/mistis /mnt/mistis_commun
      nfs defaults,vers=3,user,noatime 0 0
ral-nas5.inrialpes.fr:/vol/ral_scratch/scratch/mistis /mnt/cluster_scratch
      nfs defaults,vers=3,user,noatime,exec 0 0
ral-nas6.inrialpes.fr:/vol/temporaire/mistis /mnt/temporaire
      nfs defaults,vers=3,user,noatime,exec 0 0
#
## FSTAB FILE : END
```