

TP3

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Compte rendu TP M 1 101 USI 2
Le 25 Septembre 2013

<1> Geany

<2> Utilisation de ssh et scp

<2.1> Connexion

1.

```
c101@info-tampopo
```

2.

```
anachardan@info-braidx:~$ ssh c101@info-tampopo
The authenticity of host 'info-tampopo (172.16.0.51)' can't be established.
RSA key fingerprint is 23:a6:87:18:f7:16:d2:6d:cc:ad:60:71:48:0d:6c:4a.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'info-tampopo,172.16.0.51' (RSA) to the list of known hosts.
c101@info-tampopo's password:
Linux info-tampopo 2.6.32-5-amd64 #1 SMP Mon Feb 25 00:26:11 UTC 2013 x86_64
```

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

3.

```
c101@info-tampopo:~$ xclock
Error: Can't open display:
```

4.

```
Il faut utiliser ssh -X
Nous faisons donc:
anachardan@info-braidx:~$ ssh -X c101@info-tampopo
c101@info-tampopo's password:
Linux info-tampopo 2.6.32-5-amd64 #1 SMP Mon Feb 25 00:26:11 UTC 2013 x86_64
```

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Last login: Wed Sep 25 10:38:09 2013 from info-braid.iut.bx1
/usr/bin/xauth: creating new authority file /home/c101/.Xauthority

xclock peut donc fonctionner.

<2.2>Lancement de commande a distance

1.

```
anachardan@info-braidx:~$ ssh -X c101@info-tampopo xbill
c101@info-tampopo's password:
XIO: fatal IO error 11 (Resource temporarily unavailable) on X server "localhost:17.0"
after 2266 requests (2265 known processed) with 0 events remaining.
```

<2.3>Clés de machine

Si l'on change la clé, il nous redemande si nous acceptons de se reconnecter.

Que faire si nous avons oublié de copier les clés en migrant sur un serveur ? Il nous suffit de régénérer une clé publique en créant un fichier .ssh/known_hosts

<2.4> Copie de fichier

1.

```
scp -r Documents/USI c101@info-tampopo:AnanasCorporation
```

<2.5>Clés personnelles

<2.5.1>Génération des clés

1.

```
anachardan@info-braidx:~$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/info-nfs/users/anachardan/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /info-nfs/users/anachardan/.ssh/id_rsa.
Your public key has been saved in /info-nfs/users/anachardan/.ssh/id_rsa.pub.
The key fingerprint is:
18:76:b5:bd:10:ce:98:ec:4a:b9:58:a9:4b:ac:54:bc anachardan@info-braidx
```

The key's randomart image is:

```
+--[ RSA 2048 ]-----+
|           o           |
|      . * +           |
|     o = = .         |
|   . . B . .         |
|  o * S .           |
| o * o               |
| . E o               |
| . o .               |
| . .                 |
+-----+

```

```
anachardan@info-braidx:~$ ssh-keygen -t dsa
```

Generating public/private dsa key pair.

Enter file in which to save the key (/info-nfs/users/anachardan/.ssh/id_dsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /info-nfs/users/anachardan/.ssh/id_dsa.

Your public key has been saved in /info-nfs/users/anachardan/.ssh/id_dsa.pub.

The key fingerprint is:

06:ca:87:a2:ec:2a:74:80:03:1c:b6:1a:22:44:22:4b anachardan@info-braidx

The key's randomart image is:

```
+--[ DSA 1024 ]-----+
|=E.                  |
|Bo.                  |
|B.                   |
|*o . o .            |
|..o + . S           |
|.o o . .            |
|o..                 |
|o                   |
|+.                  |
+-----+

```

2.

Ils correspondent à une génération de clés public et privé"s chacun mais n'utilisant pas le même algorithme.

3.

```
anachardan@info-braidx:~$ ls -a .ssh
```

```
. .. id_dsa id_dsa.pub id_rsa id_rsa.pub known_hosts
```

<2.5.2>Autorisation d'entrée sur le compte distant

1.

```
anachardan@info-braidx:~$ scp -r .ssh/id_dsa.pub c101@info-tampopo:id_dsa.pub
```

c101@info-tampopo's password:

id_dsa.pub

100%

612 0.6KB/s 00:00

```
anachardan@info-braidx:~$ scp -r .ssh/id_rsa.pub c101@info-tampopo:id_rsa.pub
```

```
c101@info-tampopo's password:  
id_rsa.pub
```

2.

```
c101@info-tampopo:~$ mkdir .ssh  
c101@info-tampopo:~$ ls  
AnanasCorporation id_dsa.pub id_rsa.pub  
c101@info-tampopo:~$ ls -a  
. .. AnanasCorporation .bash_history .bash_logout .bashrc id_dsa.pub id_rsa.pub .profile .ssh  
.Xauthority  
c101@info-tampopo:~$ cat *.pub >> .ssh/authorized_keys  
c101@info-tampopo:~$ ls .ssh  
authorized_keys
```

<3>Rsync

1.

```
anachardan@info-braidx:~$ rsync -av Documents/USI c101@info-tampopo:USI  
sending incremental file list  
created directory USI  
USI/  
...  
sent 1420419 bytes received 1767 bytes 2844372.00 bytes/sec  
total size is 1414335 speedup is 0.99
```

2.

```
Il met que il n'y a rien à synchroniser  
anachardan@info-braidx:~$ rsync -av Documents/USI c101@info-tampopo:USI  
sending incremental file list  
  
sent 2085 bytes received 28 bytes 4226.00 bytes/sec  
total size is 1414335 speedup is 669.35
```

3.

C'est fait également dans le 1. car j'avais déjà rajouter un fichier pour anticiper cette question.

4.

Juste en supprimant le fichier il ne le supprime pas à distance, il faut donc ajouter l'option `--delete-after` qui fabrique un dossier miroir tout en supprimant les fichiers de destination qui ne sont pas dans le fichier source. L'option `-z` permet de compresser ce que l'on envoie.