

Setting up SSH-gateway

At this moment this portal gives access to other Leiden University systems via SSH for students and staff. Authentication will be provided by ULCN.

SSH-connection

at prompt	type this
localpc:/\$	ssh <ulcn>@sshgw.leidenuniv.nl
sshgw:~>	ssh <ulcn>@<backend server>
	<i>or easier:</i>
sshgw:~>	ssh <backend server>
	<i>or in one command:</i>
localpc:/\$	ssh -t <ulcn>@sshgw.leidenuniv.nl ssh <backend server>

Public Key authentication

For explanation about passwordless authentication, public-private key-authentication see for instance here:

<https://help.ubuntu.com/community/SSH/OpenSSH/Keys>

In short you can publish your public key as follows:

at prompt	type this
localpc:/\$	cat ~/.ssh/id_rsa.pub
	<i>copy output</i>
sshgw:~>	vi ~/.ssh/authorized_keys
	<i>paste your public key and save</i>
	<i>Now, when you log on, it's password-less:</i>
localpc:/\$	ssh <ulcn>@sshgw.leidenuniv.nl
	<i>It is not necessary to put your private key on the ssh-gateway. It has key-forwarding, so the following command will password-less log you in to 'backend'.</i>

localpc:/\$	ssh -t -A <ulcn>@sshgw.leidenuniv.nl ssh <backend server>
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X forwarding

at prompt	type this
localpc:/\$	ssh -t -A -X <ulcn>@sshgw.leidenuniv.nl ssh -Y < backend server>
backend~:\$	xclock

Public Key versus Home directoy

Your linux-homedirectory is kerberized. Authentication is **always** with a password. If you want to use a public-key it has to be on a **non-kerberized** place:

sshgw:/vol/ssh-home/<ulcn>

place your public key in: *~/.ssh/authorized_keys*.

kerberized path (access only possible with a ULCN password):

sshgw:/vol/home/<ulcn>

at prompt	type this
	<i>Either you logon without a public-key, or after public-key logon, issue kinit</i>
localpc:/\$	ssh <ulcn>@sshgw.leidenuniv.nl -o PubKeyauthentication=no
sshgw:/\$	ls /vol/home/<ulcn>
	or
localpc:/\$	vi ~/.ssh/authorized_keys
sshgw:~>	ls homedir
sshgw:~>	/bin/ls: cannot access homedir: Permission denied
sshgw:~>	kinit
	<i>A prompt for your ULCN password appears</i>
sshgw:~>	ls homedir

sshfs

at prompt	type this
	Mounting homedir at endsystem via sshfs is easy:
localpc:/\$	sshfs <ulcn>@sshgw.leidenuniv.nl /mnt/linuxhomedir -o PubKeyAuthentication=no
	Unmounting:
sshgw:/\$	fusermount -u /mnt/ linuxhomedir

Seamless

You can make your ssh-commands implicit.

Edit at your local station **~/.ssh/config**

```
Host <backend server>GW
ProxyCommand ssh -q <ulcn>@sshgw netcat -w 3 <backend
server> 22
ForwardAgent yes
```

and then

```
localpc:/$ ssh -X <ulcn>@<backend server>GW
```