

Connecting to a bach(elor) server from MacOS

The easiest way to open a session on one of the bachelor servers is to use the RDP client x2go ([download the relevant version here](#)). To open a session, please follow the steps described in the [tutorial for Linux machines](#). **There is a bug when using x2goclient from MacOS. A quick workaround is to first ssh into the bachelor server ([information here](#)), open the file `.login` in your home directory and comment out the line `rs` (by putting a `#` in front of it). Now `x2goclient` should work.**

An alternative way to open a graphics-based RDP session from MacOS is to use Microsoft Remote Desktop ([download here](#)).

For security reasons you first have to open an ssh connection to the bachelor server of choice. Open a terminal or xterm and start an ssh session with the option `-L` to allow the xrdp protocol communication to pass through SSH, for example:

```
ssh -L 12345:localhost:3389 -l <username> bach1.strw.leidenuniv.nl
```

Accept the key (only asked when connecting to a new server) and enter your password. What happens is that the internet protocol (IP) port on which RDP communication takes place (3389) is connected from the bachelor server through ssh to IP port 12345 of your own computer (can effectively be any number ≥ 10000). Note that we don't need to include the `-X` option with ssh, as we do not require any X-windows communication.

Now start Microsoft Remote Desktop.



Click on the `+` in the upper left part of the window and select `Add PC` (see left image; click to enlarge).



At the top, after `PC name:`, enter `localhost:12345` (or whatever number you used when starting the ssh session).



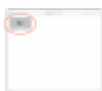
Under `Display` for the `Resolution:` select anything else than `Default` for this display (for example, `1920x1080`). Note that a different display size leads to a different session being started.



Also under `Display` you can select or deselect the `Start session in full screen`, depending on your preference.



When done, press `Add` at the bottom right.



Double-click on the new PC.



Enter your credentials and press Continue.



Press Continue when it complains about about the certificate.

[Back](#)

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