

Setup SSH Keys

With the implementation of two-factor authentication on the ssh protocol at the Observatory, you need to setup two ssh keys to make life easy. These two key are:

1. To login from your laptop to an Observatory machine
2. To login between computers at the Observatory

Below we deal with these two cases.

Login from outside the Observatory

Login from the internet is usually done from your own personal computer. Of course that is a MacBook, but for all those 'other system' users we describe below how to setup a private/public key pair to allow seamless login to the Observatory computers.

From Windows

For Windows, you can use [putty](#), [MobaXterm](#) or [Bitvise Tunnelier](#) to open a terminal session to a Linux desktop or server computer. Below we describe the setup for each program separately:

- [Setup putty](#)
- [Setup WinSCP](#)
- [Setup Bitvise Tunnelier](#)

From MacOS

- [Setup key based login from MacOS](#)

From Linux

- [Setup Linux](#)

Ssh key based login between computers at the Observatory

To setup an ssh key pair to allow you to login password/2fa less between Observatory computers that all share the /home directory structure, you can simply create a keypair in your .ssh directory:

```
$ ssh-keygen -t ecdsa
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/testuser1/.ssh/id_ecdsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
```

```
Your identification has been saved in /home/testuser1/.ssh/id_ecdsa
Your public key has been saved in /home/testuser1/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:xb4Rs37UbXt3Wn5cHkdKWY2ZDBbor9F83IYNLhjsfIU
testuser1@<machine>.strw.leidenuniv.nl
The key's randomart image is:
+---[ECDSA 256]---+
|          ...      |
|         .. o      |
|        o=. + o.   |
|       o++E.O.+   |
|      So+*.=. @o   |
|     .+=* BoB     |
|    o+.o =0       |
|    ..  +B        |
|    . o           |
+-----[SHA256]-----+
```

and then add the public key to your `authorized_keys` file:

```
cat ~/.ssh/id_ecdsa.pub >> ~/.ssh/authorized_keys
```

From this point on login into Observatory Linux computers from Observatory Linux computers is easy.

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Last update: **2021/03/22 14:00**

