

# 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. Please note that when you setup a private/public key pair, you need to be extremely careful with the private key. Its name already indicates it is a **private** key. It is like a password, extremely important you shield this file with your life! It is a bit more safe if you add, during the creation of the key pair, a complex passphrase.

## 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]---+
|           ...      |
|          .. 0      |
|         0=. + 0.   |
|        o++E.0.+   |
|       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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