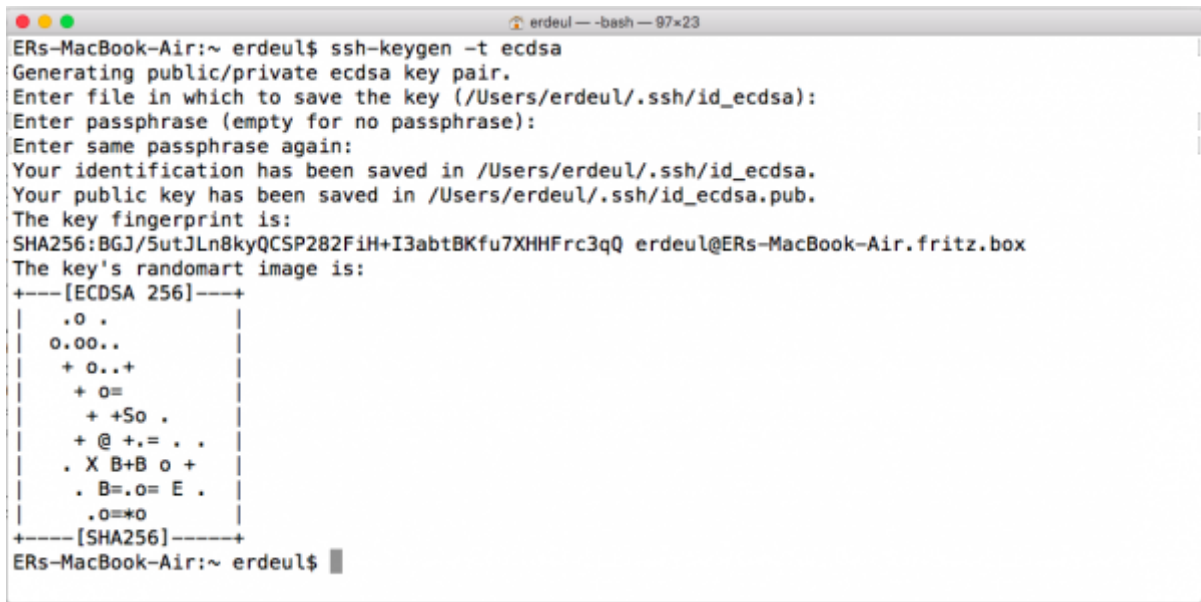


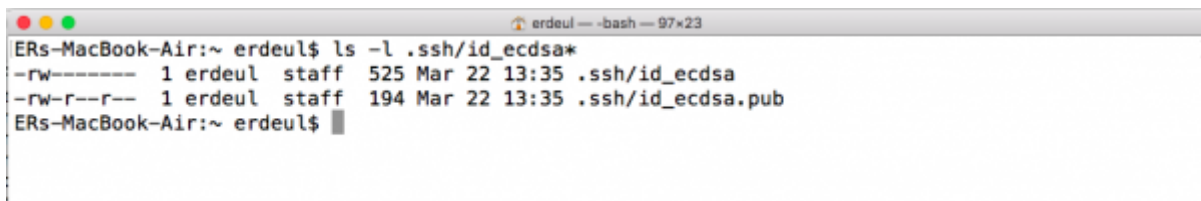
Setup key based login from MacOS

The procedure is very similar to the Linux procedure. So we first need to build a public/private keypair using the ssh-keygen utility:



```
ERs-MacBook-Air:~ erdeul$ ssh-keygen -t ecdsa
Generating public/private ecdsa key pair.
Enter file in which to save the key (/Users/erdeul/.ssh/id_ecdsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /Users/erdeul/.ssh/id_ecdsa.
Your public key has been saved in /Users/erdeul/.ssh/id_ecdsa.pub.
The key fingerprint is:
SHA256:BGJ/5utJLn8kyQCSP282FiH+I3abtBKfu7XHHFrc3qQ erdeul@ERs-MacBook-Air.fritz.box
The key's randomart image is:
+--[ECDSA 256]--+
|  .o .
| 0.00..
| + o..+
| + o=
| + +So .
| + @ +.= . .
| . X B+B o +
| . B=.o= E .
| .o=*o
+--[SHA256]-----+
ERs-MacBook-Air:~ erdeul$
```

For both question about passphrase, just hit enter (we will not be using passphrases). This will also have generated two files in your personal .ssh directory:



```
ERs-MacBook-Air:~ erdeul$ ls -l .ssh/id_ecdsa*
-rw----- 1 erdeul staff 525 Mar 22 13:35 .ssh/id_ecdsa
-rw-r--r-- 1 erdeul staff 194 Mar 22 13:35 .ssh/id_ecdsa.pub
ERs-MacBook-Air:~ erdeul$
```

The file id_ecdsa.pub must be transferred to the remote host. For this we can use ssh-copy-id:

```
$ ssh-copy-id -i ~/.ssh/id_ecdsa.pub username@remote-host
```

This may produce the following message:

```
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed:
"/home/username/.ssh/id_rsa.pub"
The authenticity of host 'remote-host (123.123.123.123)' can't be
established.
ECDSA key fingerprint is SHA256:tygMarTe3S0jTcY9HzldKThxQzsTeiYHg5JmJB2bxeg.
Are you sure you want to continue connecting (yes/no)? yes
```

Having confirmed the access key to remote-host, the copy operation will commence:

```
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to
filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are
prompted now it is to install the new keys
```

```
username@remote-host's password:  
One-time password (OATH) for `username`:
```

Type your password (and the 2FA passcode) to actually start the file copy.

Number of key(s) added: 1

Now try logging into the machine, with: `"ssh 'username@remote-host'"`
and check to make sure that only the key(s) you wanted were added.

The passwordless/2fa codeless ssh login is now in place.

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