Creating an SSH Key Pair for User Authentication

For generating an SSH key pair, you need to use the ssh-keygen tool. There are two points you need to pay attention

1. **Beware, you may overite your existing ssh key**. So before you start, check your ~/.ssh/ is empty. If not, you can choose another directory and file name.
2. If you don't want a passphrase for your private key just press enter. If you set a passphrase, every time you do an ssh connection, you need to provide this passphrase

Just follow this example to generate your ssh key pair

```
(base) [pliu@localhost tmp]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/pliu/.ssh/id_rsa):
/tmp/myNewPriKey
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /tmp/myNewPriKey.
Your public key has been saved in /tmp/myNewPriKey.pub.
The key fingerprint is:
SHA256:xV2mnBP+6WF2XJ+SAi2cpfbv7HHOin6KWfMawR2JEmI
pliu@localhost.localdomain
The key's randomart image is:
+---[RSA 2048]----+
|       E . .. o  |
|      . o.*+.*.   |
|         OooBo  .|
|        ..* .ooo+|
|        S  = +*.+|
|           ++.o  |
|          + o..  |
|         + B.=   |
|        o.==*.o  |
+----[SHA256]-----+
(base) [pliu@localhost tmp]$ ls
myNewPriKey    myNewPriKey.pub
```

Important Note: Never send your private key to someone else. If someone has your private key, you need to generate a new key pair.

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