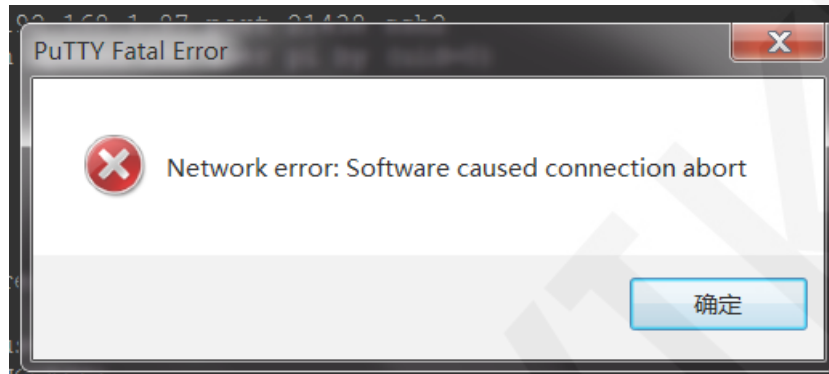After the SSH server of the Ubuntu-mate-18.04 system is turned on, using the putty connection on the PC may fail. The specific solution is as follows:

1. **use putty to test whether ssh is connected successfully**

    If a login prompt appears, the connection is successful.

    If the following error message appears, the connection failed:

    Once the connection fails, find the cause and solve the problem as follows.

2. **View the running status of the ssh server**

    Enter the following command in the system terminal command window:

    sudo service ssh status

    The following prompt indicates that the sshd daemon cannot load the host key file.

```
Could not load host key: /etc/ssh/ssh_host_rsa_key
Could not load host key: /etc/ssh/ssh_host_ecdsa_key
Could not load host key: /etc/ssh/ssh_host_ed25519_key
```

3. **regenerate the host key file**

    Enter the following commands in the system terminal command window:

    sudo ssh-keygen -t rsa -f /etc/ssh/ssh_host_rsa_key

    sudo ssh-keygen -t ecdsa -f /etc/ssh/ssh_host_ecdsa_key

    sudo ssh-keygen -t ed25519 -f /etc/ssh/ssh_host_ed25519_key

    -t indicates the type of encryption used by the generated key;

    -f key followed by the name of the key file to be generated

    When you encounter the following input requirements when executing the command, press the Enter key directly.

```
Enter passphrase (empty for no passphrase):     #直接回车即可
Enter same passphrase again:
```

4. Check if the key file is generated and qualified

Enter the following commands in the system terminal command window:

ls -al /etc/ssh/

The following content indicates that the key file has been generated and passed (if the

file size is 0, it is unqualified and needs to be regenerated)

```
-rw------- 1 root root 227 May 22 16:48 ssh_host_ecdsa_key
-rw-r--r-- 1 root root 179 May 22 16:48 ssh_host_ecdsa_key.pub
-rw------- 1 root root 411 May 22 16:48 ssh_host_ed25519_key
-rw-r--r-- 1 root root 99 May 22 16:48 ssh_host_ed25519_key.pub
-rw------- 1 root root 1679 May 22 16:48 ssh_host_rsa_key
-rw-r--r-- 1 root root 399 May 22 16:48 ssh_host_rsa_key.pub
```

In fact, the host key file is a private key, and the .pub file is a public key.

5. check again ssh is connected successfully

After setting the above steps, use putty to connect to ssh on the PC. At this point, you

will find that ssh can be successfully connected.