

课程仿真服务器连接教程

(macOS系统)



清华大学

Tsinghua University

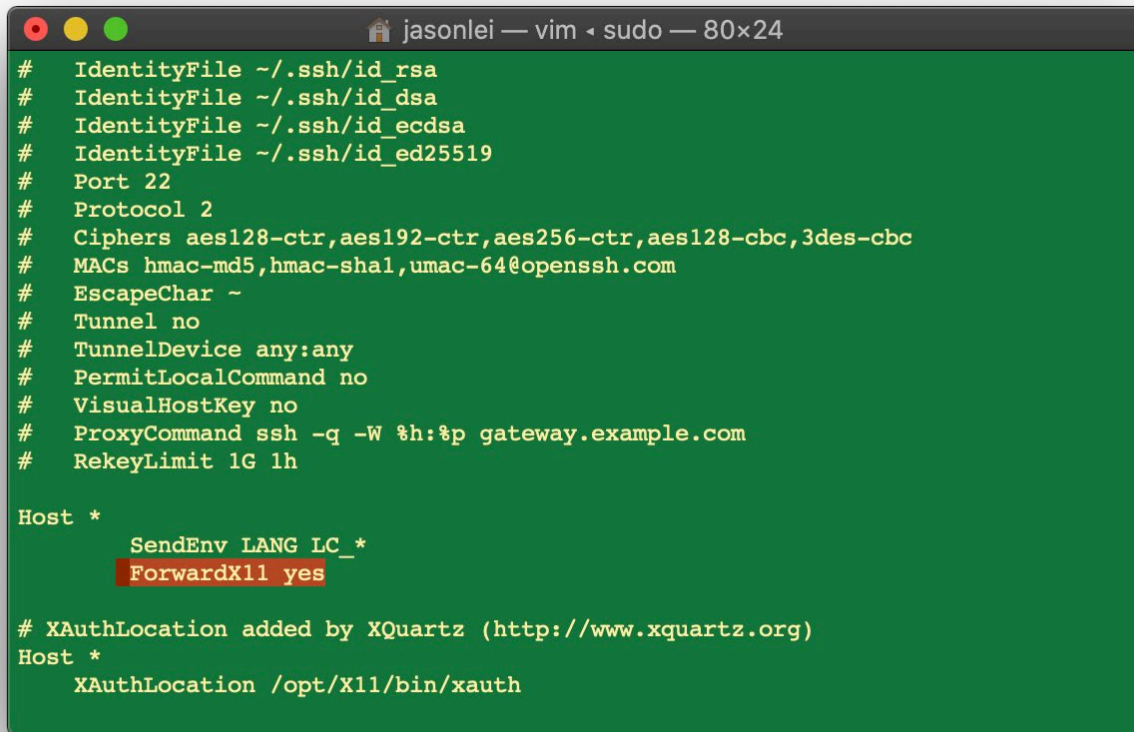
连接前准备

- 下载安装 XQuartz <https://www.xquartz.org>
- 安装完成后，先不打开软件，退出用户登录后重新登录（也可重启电脑）。Xquartz会在重新登录的过程中创建认证文件



连接前准备

- 编辑 /private/etc/ssh/ssh_config 文件，加入 “ForwardX11 yes” 字段



```
jasonlei — vim — sudo — 80x24
# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
# Port 22
# Protocol 2
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h

Host *
    SendEnv LANG LC_*
    ForwardX11 yes

# XAuthLocation added by XQuartz (http://www.xquartz.org)
Host *
    XAuthLocation /opt/X11/bin/xauth
```

PS: 不熟悉Linux/Unix系统命令的同学, 也可在“访达”中点击“前往” - “前往文件夹”, 进入/private/etc/ssh/ 文件夹后, 使用“文本编辑”打开ssh_config文件

- 使用较新版本的 macOS 系统的同学，还需要编辑 `~/.ssh/config` 文件，加入 “`ForwardX11Trusted yes`” 字段，如果没有该文件可以新建

A screenshot of a terminal window. The title bar at the top shows three colored circles (red, yellow, green) on the left, followed by the text "jasonlei — vi ~/.ssh/config\240 — 80x24". The main area of the terminal has a dark green background. It displays the text "ForwardX11Trusted yes" on the first line. Below this, there are several horizontal blue dashed lines representing empty space in the editor. At the bottom of the screen, it shows the command prompt and cursor position: "~/.ssh/config " 1L, 22C".

连接步骤

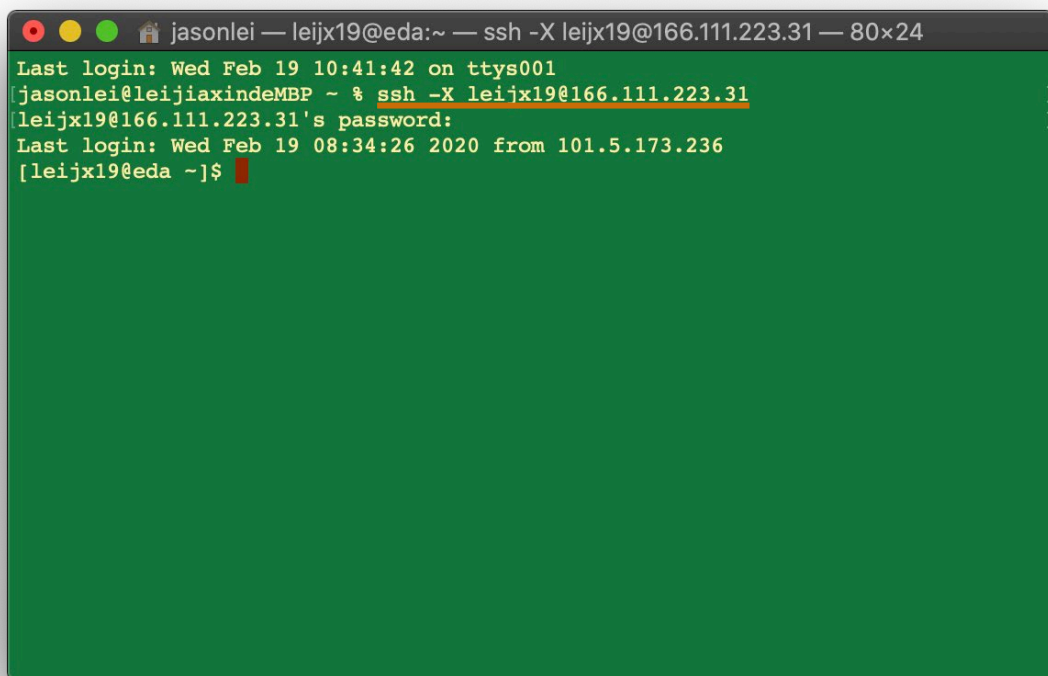
- 非校园网内连接远程服务器，需先通过 sslvpn 连接清华校园网



连接方法详见：<http://info.tsinghua.edu.cn/out/help.jsp>

连接步骤

- 打开 XQuartz
- 在终端中，输入 “ssh -X 用户名@ip地址”，连接远程服务器

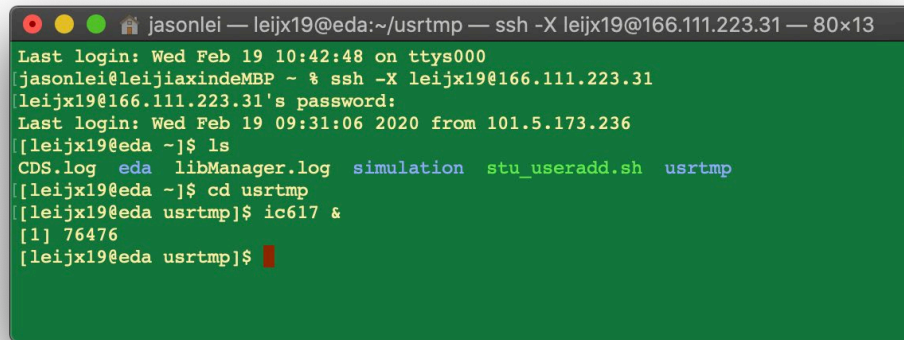


```
jasonlei — leijx19@eda:~ — ssh -X leijx19@166.111.223.31 — 80x24
Last login: Wed Feb 19 10:41:42 on ttys001
jasonlei@leijiaxindeMBP ~ % ssh -X leijx19@166.111.223.31
leijx19@166.111.223.31's password:
Last login: Wed Feb 19 08:34:26 2020 from 101.5.173.236
[leijx19@eda ~]$
```

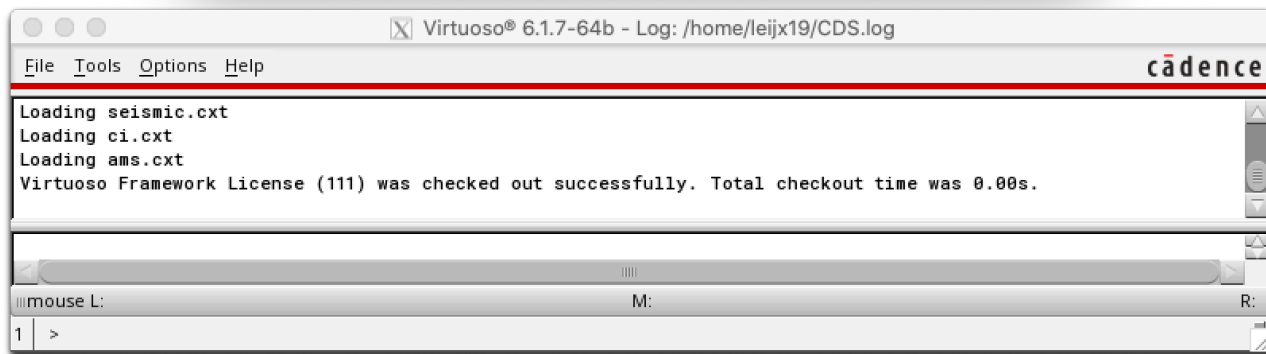
各位同学在仿真服务器上的用户名为学号，初始密码为“!学号”，登录成功后输入“passwd”命令可修改登录密码

服务器使用

- 输入 “cd usrtmp” 命令进入仿真文件夹
- 输入 “virtuoso &” 命令，即可打开 Cadence Virtuoso



```
jasonlei — leijx19@eda:~/usrtmp — ssh -X leijx19@166.111.223.31 — 80x13
Last login: Wed Feb 19 10:42:48 on ttys000
jasonlei@leijiaxindeMBP ~ % ssh -X leijx19@166.111.223.31
leijx19@166.111.223.31's password:
Last login: Wed Feb 19 09:31:06 2020 from 101.5.173.236
[leijx19@eda ~]$ ls
CDS.log  eda  libManager.log  simulation  stu_useradd.sh  usrtmp
[leijx19@eda ~]$ cd usrtmp
[leijx19@eda usrtmp]$ ic617 &
[1] 76476
[leijx19@eda usrtmp]$
```



如果需要向服务器传送文件，可通过FileZilla等支持sftp的客户端软件进行

附：Linux基础知识

- Linux 简介: <http://www.runoob.com/linux/linux-intro.html>
- Linux 常用命令: <https://www.jianshu.com/p/0056d671ea6d>

本课程仅需掌握前8个命令。

- Linux 命令练习

<https://bellard.org/jslinux/vm.html?url=https://bellard.org/jslinux/buildroot-x86.cfg>

在服务器未开放前可以使用该模拟页面进行练习