

What computer to use?

1. You can use the Khoury cloud servers which run Linux

- Much development in companies is done in the cloud on Linux
- You can use this class to learn now how to use cloud servers and github repositories
- Employers like using cloud servers, because it allows them to provision and control the development environment

2. You can use your Mac or Windows laptop

3. You can use cloud computing

- AWS or GCP
- Repl.it

If you use the Khoury cloud servers

You will use your CIS/Khoury username and connect (via `ssh`) to yourusername@login.khoury.northeastern.edu

If you do not have an Khoury account try <https://my.khoury.northeastern.edu/account/apply>
or contact khoury-systems@northeastern.edu

Once you have logged in, you will be running on a Linux machine

Connecting to Khoury Cloud

Mac Users

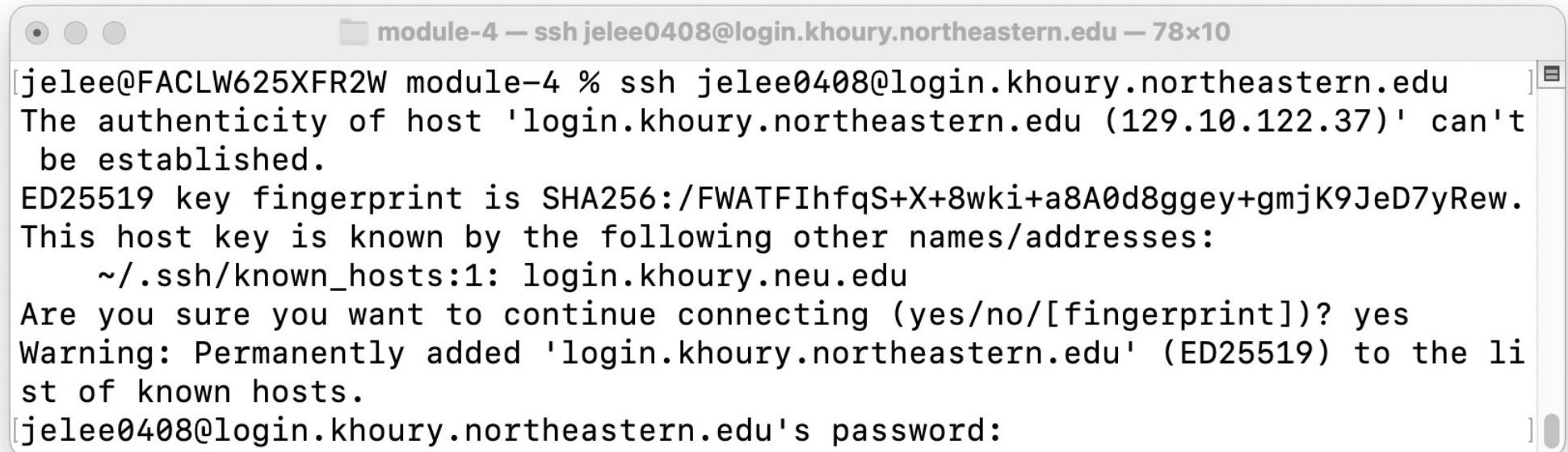
https://northeastern.service-now.com/tech?id=csm_nu_kb_article&sys_id=b519765adb12905062cdf9051d961992

Connecting to Khoury Cloud: Mac Users

Step 1: Open a terminal on your computer.

Step 2: Type in the following line and then hit enter

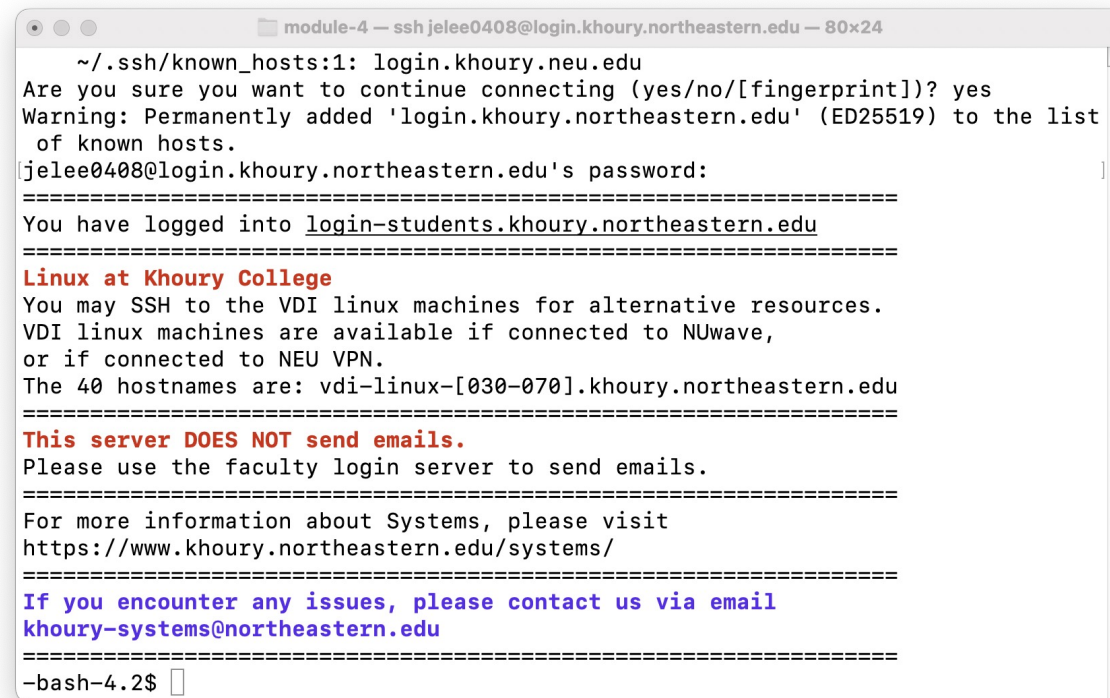
```
ssh [your username]@login.khoury.northeastern.edu
```



```
module-4 — ssh jelee0408@login.khoury.northeastern.edu — 78x10
[jelee@FACLW625XFR2W module-4 % ssh jelee0408@login.khoury.northeastern.edu
The authenticity of host 'login.khoury.northeastern.edu (129.10.122.37)' can't
be established.
ED25519 key fingerprint is SHA256:/FWATFIhfqS+X+8wki+a8A0d8ggey+gmjK9JeD7yRew.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: login.khoury.neu.edu
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'login.khoury.northeastern.edu' (ED25519) to the li
st of known hosts.
[jelee0408@login.khoury.northeastern.edu's password:
```

Connecting to Khoury Cloud: Mac Users

- **Step 3:** Once you hit enter, you will be prompted to enter your password. As you type your password, nothing will show up in the terminal which is normal. Hit enter to fully login into the Linux machine. Once you are fully logged in, you will see the following screen.



```
module-4 — ssh jelee0408@login.khoury.northeastern.edu — 80x24
~/ .ssh/known_hosts:1: login.khoury.neu.edu
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'login.khoury.northeastern.edu' (ED25519) to the list
of known hosts.
jelee0408@login.khoury.northeastern.edu's password:
=====
You have logged into login-students.khoury.northeastern.edu
=====
Linux at Khoury College
You may SSH to the VDI linux machines for alternative resources.
VDI linux machines are available if connected to NUwave,
or if connected to NEU VPN.
The 40 hostnames are: vdi-linux-[030-070].khoury.northeastern.edu
=====
This server DOES NOT send emails.
Please use the faculty login server to send emails.
=====
For more information about Systems, please visit
https://www.khoury.northeastern.edu/systems/
=====
If you encounter any issues, please contact us via email
khoury-systems@northeastern.edu
=====
-bash-4.2$
```

Connecting to Khoury Cloud

Windows Users

https://northeastern.service-now.com/tech?id=csm_nu_kb_article&sys_id=b519765adb12905062cdf9051d961992

Connecting to Khoury Cloud: Windows Users

Step 1: Download the PuTTY terminal emulator here:

<https://www.putty.org>



Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

You can download PuTTY [here](#).

Below suggestions are independent of the authors of PuTTY. They are not to be seen as endorsements by the PuTTY project.

Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

- graphical SFTP file transfer;
- single click Remote Desktop tunneling;
- auto-reconnecting capability;
- dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

Bitvise SSH Client is **free to use**. You can [download it here](#).

Bitvise SSH Server

Bitvise SSH Server is an SSH, SFTP and SCP server for Windows. It is robust, easy to install, easy to use, and works well with a variety of SSH clients, including Bitvise SSH Client, OpenSSH, and PuTTY. The SSH Server is developed and supported professionally by Bitvise.

You can [download Bitvise SSH Server here](#).

Connecting to Khoury Cloud: Windows Users

Step 2: Open PuTTY and navigate to configuration settings. Once you get to the PuTTY configuration settings, enter the following:

- "login.khoury.northeastern.edu" into the Host Name text entry box
- 22 into the Port text entry box
- Check that the connection type is "SSH"

Your PuTTY configurations should look like the following:

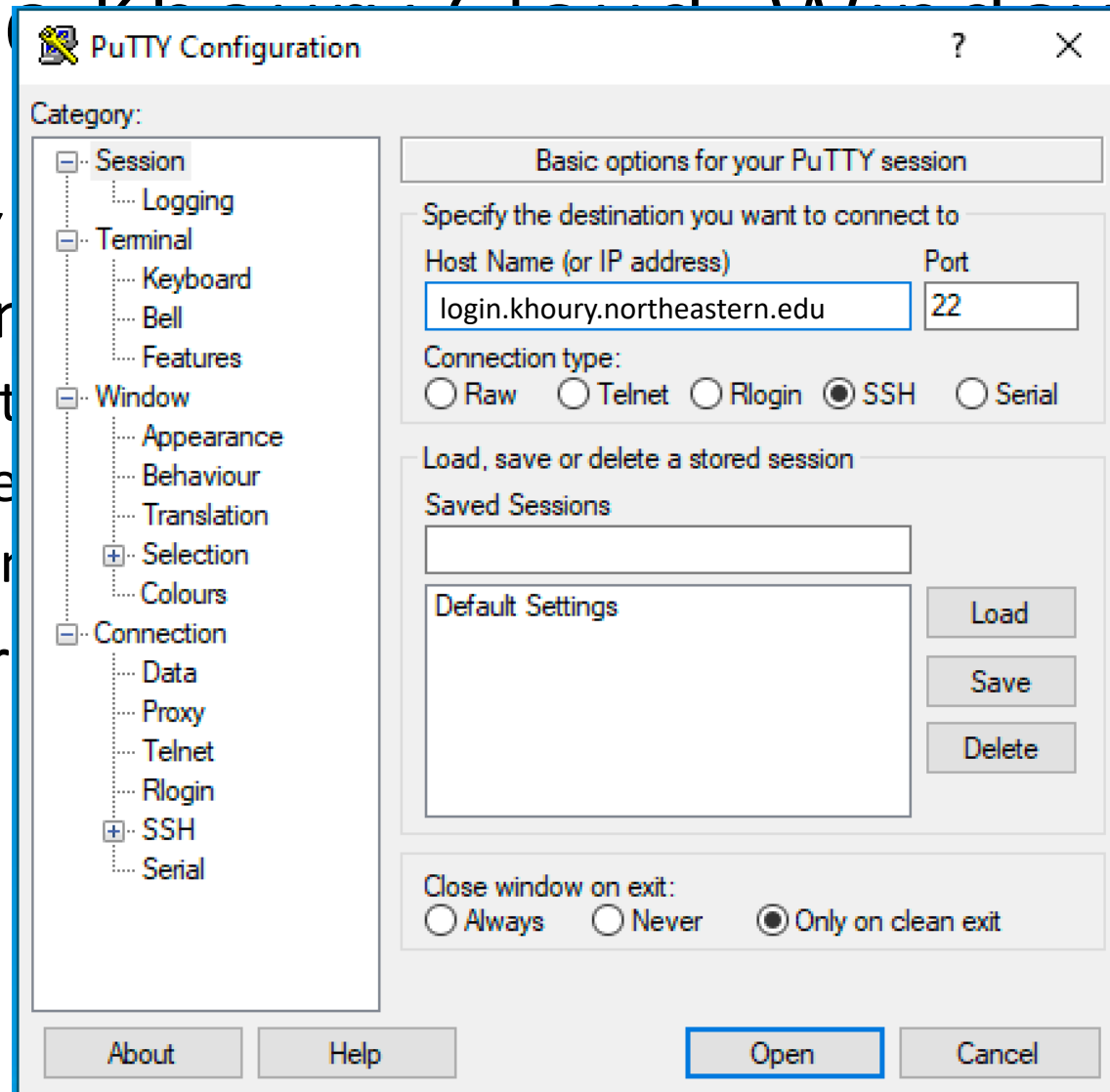
Connecting to Khoury Cloud Windows Users

Step 2: Open PuTTY and get to the PuTTY configuration window.

- "login.khoury.northeastern.edu" into the Host Name (or IP address) text box
- 22 into the Port text box
- Check that the connection type is SSH

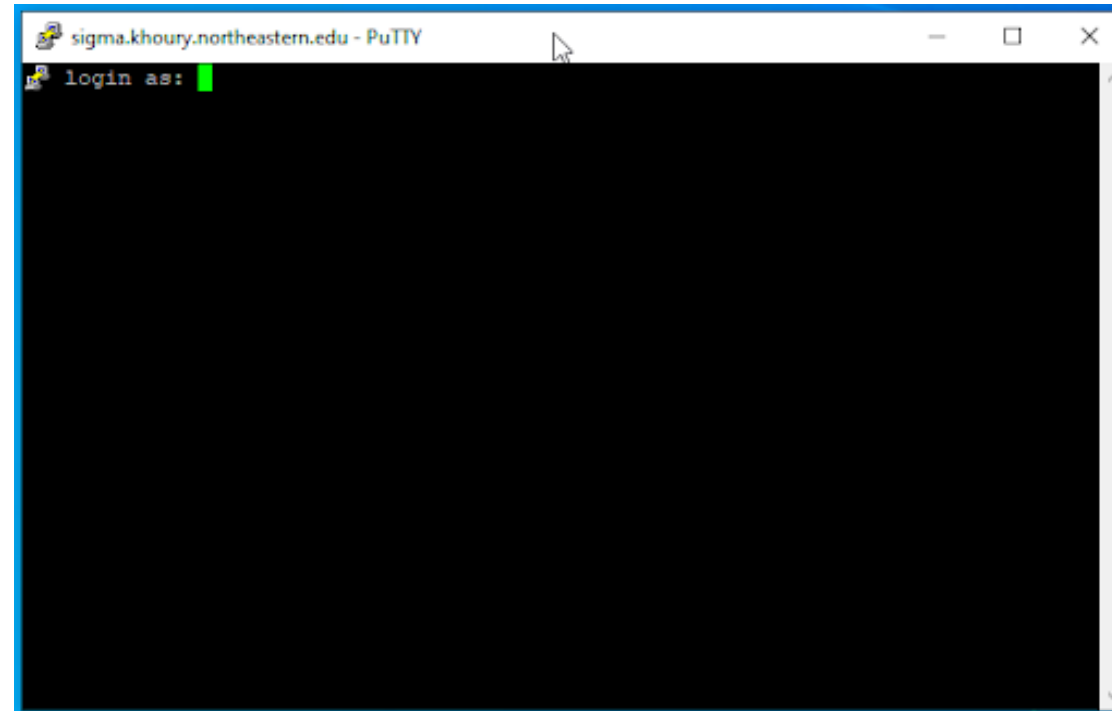
Your PuTTY configuration is now ready.

Once you click the Open button, you will be prompted for your username and password.



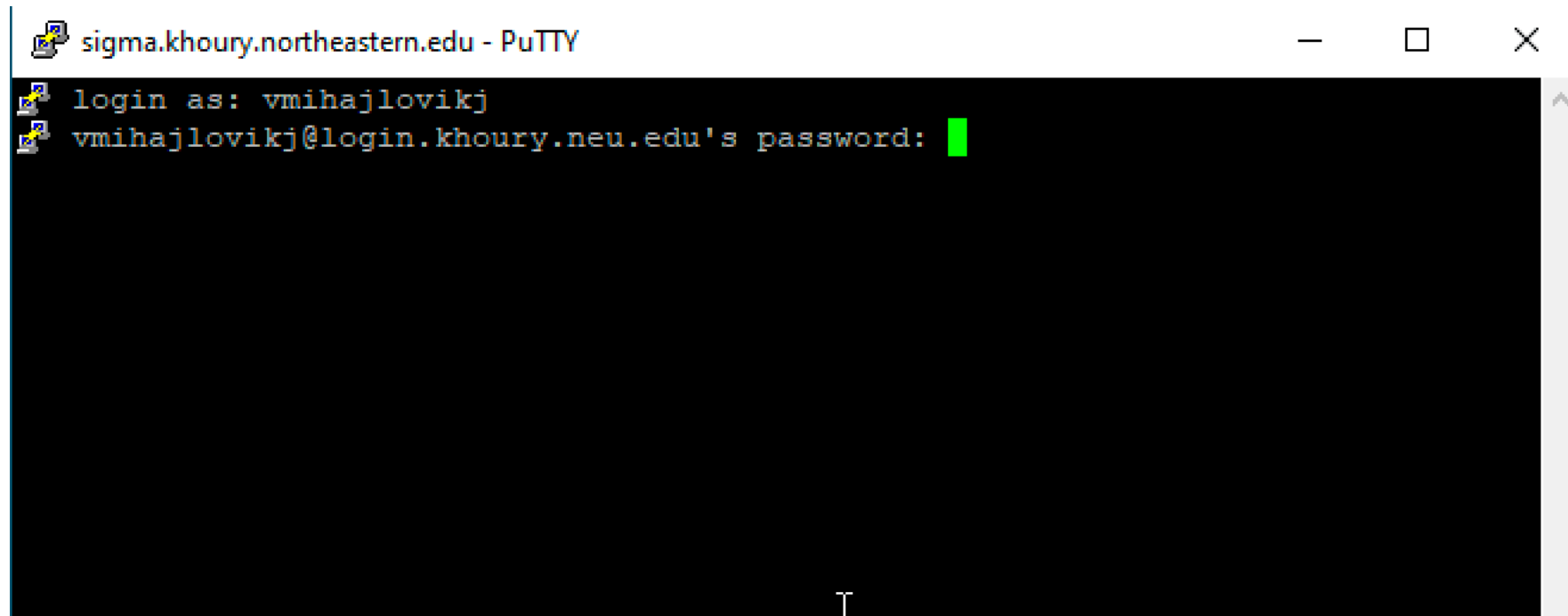
Connecting to Khoury Cloud: Windows Users

Step 3: Click open, and it should open a terminal like the following:



Connecting to Khoury Cloud: Windows Users

Step 4: Enter your CIS/Khoury username. Once you hit enter, you will be prompted to enter your CIS/Khoury password. As you type your password, nothing will show up in the terminal which is normal. Hit enter to fully login into the Linux machine.



```
sigma.khoury.northeastern.edu - PuTTY
login as: vmihajlovikj
vmihajlovikj@login.khoury.neu.edu's password: █
```

Connecting to Khoury Cloud: Windows Users

Once you are fully logged in, you will see the following screen.

```
You have logged into login-students.ccs.neu.edu
=====
Linux at Khoury College
You may SSH to the VDI linux machines for alternative resources.
VDI linux machines are available if connected to NUwave,
or if connected to NEU VPN.
The 40 hostnames are: vdi-linux-[030-070].ccs.neu.edu
=====
For more information about Systems, please visit
https://www.khoury.northeastern.edu/systems/
=====
If you encounter any issues, please contact us via email
khoury-systems@northeastern.edu
=====
-bash-4.2$ █
```

Done! You have successfully ssh'd into the Linux machine!