Connecting to the AWS Training Environment

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Instructors will provide students with credentials and IP addresses to connect to the AWS training environment. This is "pinned" in the course slack channel. Students will need an SSH client which is capable of establishing a SSH terminal session as well as port forwarding. Brief instructions are provided below for a couple SSH clients. Students should forward the local port to the following ports on the AWS side of the tunnel:

port 8443 - HTTPS access to Grouper, phpMyAdmin, phpLdapAdmin, Shib IdP, Shib SP, rabbitmq

Note, you must not have anything listening on 8443 in your computer

- OpenSSH
- Windows PuTTY
- Windows SecureCRT

Troubleshooting

OpenSSH

OpenSSH provides the command line ssh client found on most UNIX/Linux/Mac systems. This also works in windows powershell.

On Mac, open Finder Utilties Terminal

Copy and paste the SSH command column of the google sheet with passwords. e.g.

\$ ssh -L 8443:localhost:8443 -l student a.b.c.d

If you have Mac/Unix and want to use public key:

mkdir -p ~/.ssh chmod 700 .ssh ssh-keygen -o

Make a config file

```
vi ~/.ssh/config
```

```
Host gte
HostName 1.2.3.4
User student
LocalForward 8443 localhost:8443
LocalForward 8432 localhost:5432
LocalForward 8389 localhost:389
IdentityFile /Users/myusername/.ssh/id_rsa
ServerAliveInterval 240
ServerAliveCountMax 2
```

Save public key on server

```
mkdir .ssh
chmod 700 .ssh
cd .ssh
vi authorized_keys (press i to edit)
<paste the public key from ~/.ssh/id_rsa>
ESC : w q
chmod 400 authorized_keys
```

Connect to server

Windows PuTTY

PuTTY is SSH client/terminal software frequently used on Windows operating systems, but also available on Linux systems. Configuration of connections and tunnels is configured using a GUI. See the screen captures below.

Download putty

Start a session, to the IP address at AWS

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Category:	
	Basic options for your PuTTY session
Logging Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial	Specify the destination you want to connect to Host Name (or IP address) Port 1.2.3.4 22 Connection type: Image: Specify the destination of the second s
About	Open <u>C</u> ancel

Click on SSH, tunnels

Real PuTTY Configuration	ı	×
Category:		
Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Poxy Taleat	•	Options controlling SSH port forwarding Port forwarding Local ports accept connections from other hosts Remote ports do the same (SSH-2 only) Forwarded ports: Remove Add new forwarded port: Source port Add
Riogin → SSH → Kex → Auth → TTY → X11 Tunnels → Bugs → Serial	•	Destination ⓐ Local ⓑ Remote ⓑ Dynamic ⓑ Auto ⓑ IPv4 ⓒ IPv6
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Add one for 8443, and 15672



Windows SecureCRT

This is a windows program that might be on your computer from your work. It is not free. So if you dont have SecureCRT already, putty is preferred (above)

Open SecureCRT

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File Connect in Tab/Tile

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		Reconnect All	Alt+A	
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		Disconnect All		
		Clone Session		
		Connect SFTP Session	Alt+P	
		Lock Session		E
		Print	•	
		Print Setup		
		Log Session		
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		Trace Options		
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Click the plus sign to make a new session (if you havent connected before)

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Protocol SSH2

New Session Wizard	×	ſ
	This wizard will help you create a new session for connecting to a remote server. What type of connection do you want to establish? P <u>r</u> otocol: SSH2	
	Do not use this wizard when creating sessions	
	Next > Finish Cancel	

Enter the IP address and username from the google doc of passwords next to your name (note, this is not your IP address

New Session Wizard					
	What is the nam The user name c	e or IP address of the remote host? an be left blank.			
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Enter a name for the connection so you can find it later

New Session Wizard				×
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Right click and go to properties on that connection

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Add port forwarding for the browser (8443) and rabbitmq (15672)



Connect, save password (from google doc of passwords)

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ssion Manager	Enter Secure Shell Password student@18.191.37.226 requires a password. OK Please enter a password now. Cancel Username: student Password: ••••••• Save password Skip	A III
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Troubleshooting

If you are having issues with the ssh session timing out after a short period of inactivity, try adding this to your ssh command line:

-o TCPKeepAlive=yes -o ServerAliveCountMax=20 -o ServerAliveInterval=15