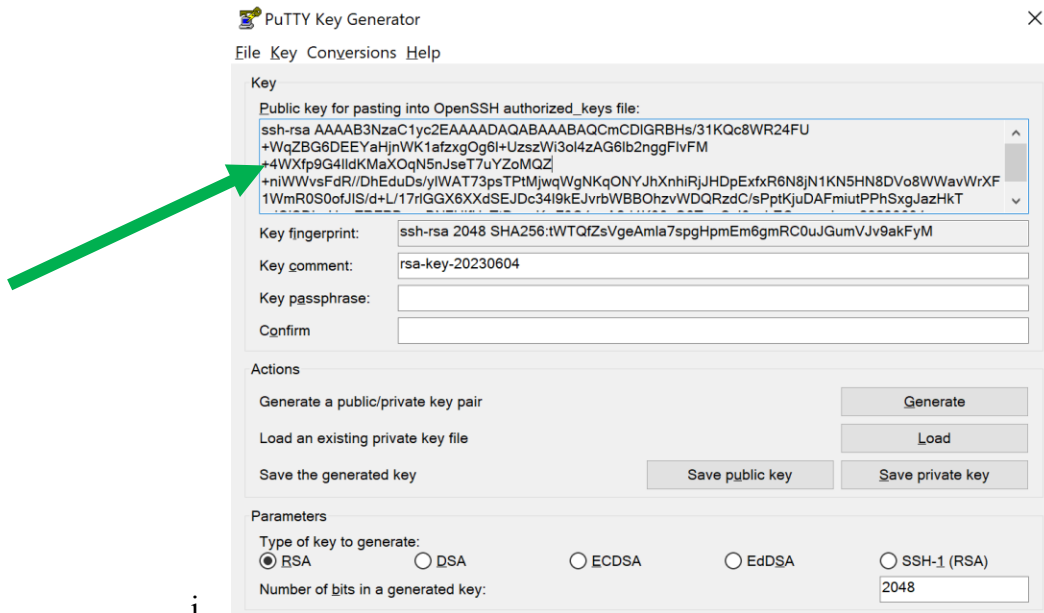
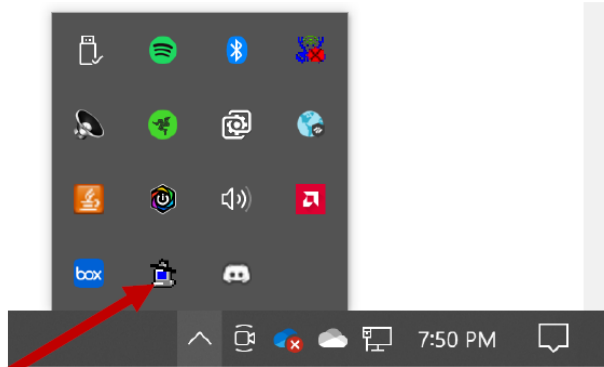


Connecting To DFR Server (Currently)

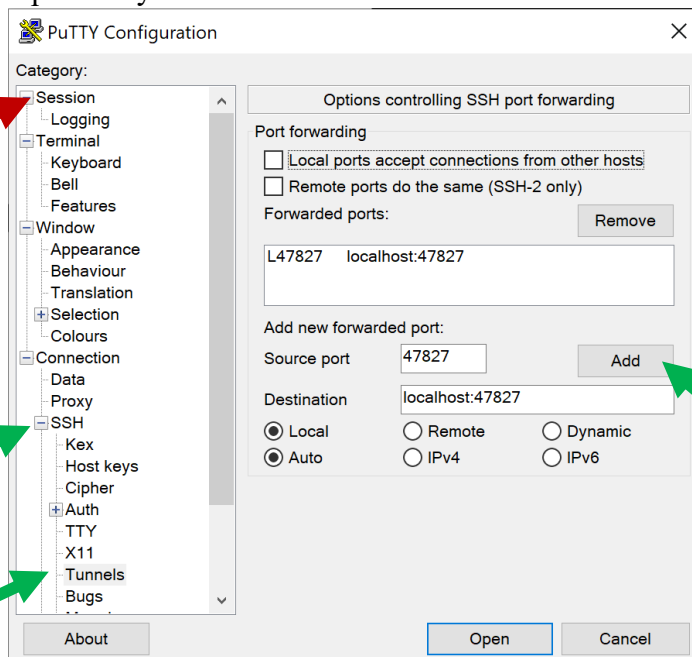
1. Download Software
 - a. MobaXTerm
 - i. <https://mobaxterm.mobatek.net/download-home-edition.html>
 - ii. Blue Portable edition, (both do the same thing though)
 - b. Putty
 - i. <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>
 - ii. 64-bit x86 MSI (Windows Installer)
 - iii. Either keep track of where you installed this or use the windows key to search for the programs
2. Create public/private key pair
 - a. Open puttygen.exe
 - b. Leave everything default, should be RSA
 - c. Click Generate
 - d. Move your mouse around the screen until the key is generated
 - e. Copy the public key from the top box, the whole thing



- i.
 - f. Send this to me
 - g. Click save private key
 - h. Ignore the password message if you want
 - i. Save the key to a place on your computer you will remember
 - i. You will need to find this each time you restart your computer
3. Add private key to Pageant (you do this each time you start your computer)
 - a. Open pageant.exe
 - b. You will see it in the bottom system tray



- c.
- d. Right click it, add key
- e. Select the private key file you just saved
4. Configure Putty (Also do this each time)
 - a. Open Putty.exe



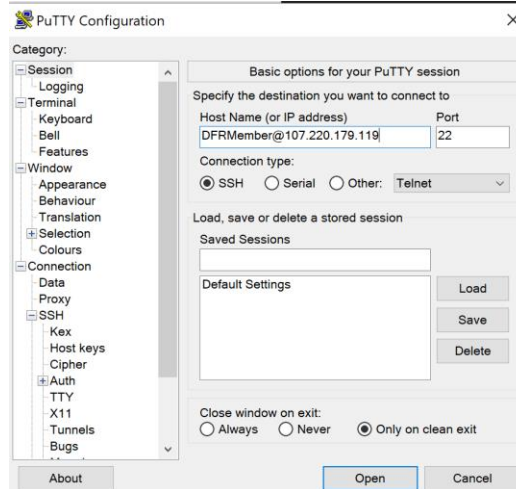
- b.
- c. Follow/click green arrows
- d. Type in the source port and destination as shown
- e. Click add, do not click open
- f. You will see this in the box above as show under "Forwarded ports:"
- g. Then click back on red arrow
- h. Leave this window open
5. Start Plink (ssh tunnel)
 - a. Open command line
 - i. Windows key, type cmd, enter
 - b. Type: plink -ssh DFRMember@<ip> -L 47827:localhost:47827 -N -v
 - c. You will see similar messages as below, when it says press return hit enter

```

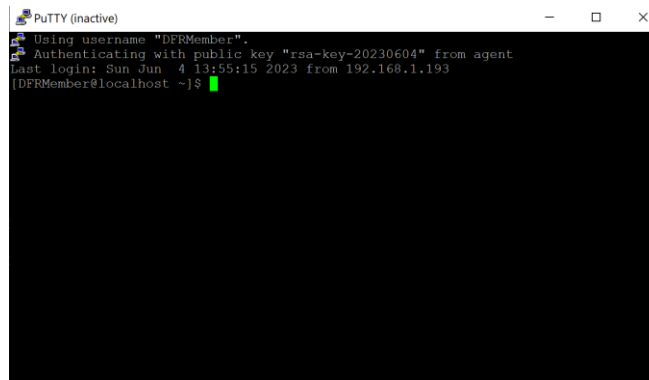
C:\Users\haybe>plink -ssh DFRMember@107.220.179.119 -L 47827:localhost:47827 -N -v
Looking up host "107.220.179.119" for SSH connection
Connecting to 107.220.179.119 port 22
We claim version: SSH-2.0-PuTTY_Release_0.78
Connected to 107.220.179.119
Remote version: SSH-2.0-OpenSSH_9.0
Using SSH protocol version 2
No GSSAPI security context available
Doing ECDH key exchange with curve Curve25519, using hash SHA-256 (unaccelerated)
Server also has ecdsa-sha2-nistp256/rsa-sha2-512/rsa-sha2-256 host keys, but we don't know any of them
Host key fingerprint is:
ssh-ed25519 255 SHA256:5erR/YTA/190a3Q0igdm67e+7+ASIsPwSYBHurnQZjA
Initialised AES-256 SDCTR (AES-NI accelerated) outbound encryption
Initialised HMAC-SHA-256 (unaccelerated) outbound MAC algorithm
Initialised AES-256 SDCTR (AES-NI accelerated) inbound encryption
Initialised HMAC-SHA-256 (unaccelerated) inbound MAC algorithm
Pageant is running. Requesting keys.
Pageant has 1 SSH-2 keys
Using username "DFRMember".
Trying Pageant key #0
Authenticating with public key "rsa-key-20230604" from agent
Sending Pageant's response
Access granted
Access granted. Press Return to begin session.
Local port 47827 forwarding to localhost:47827
Remote debug message: /home/DFRMember/.ssh/authorized_keys:2: key options: agent-forwarding port-forwarding pty user-rc x11-forwarding
Remote debug message: /home/DFRMember/.ssh/authorized_keys:2: key options: agent-forwarding port-forwarding pty user-rc x11-forwarding

```

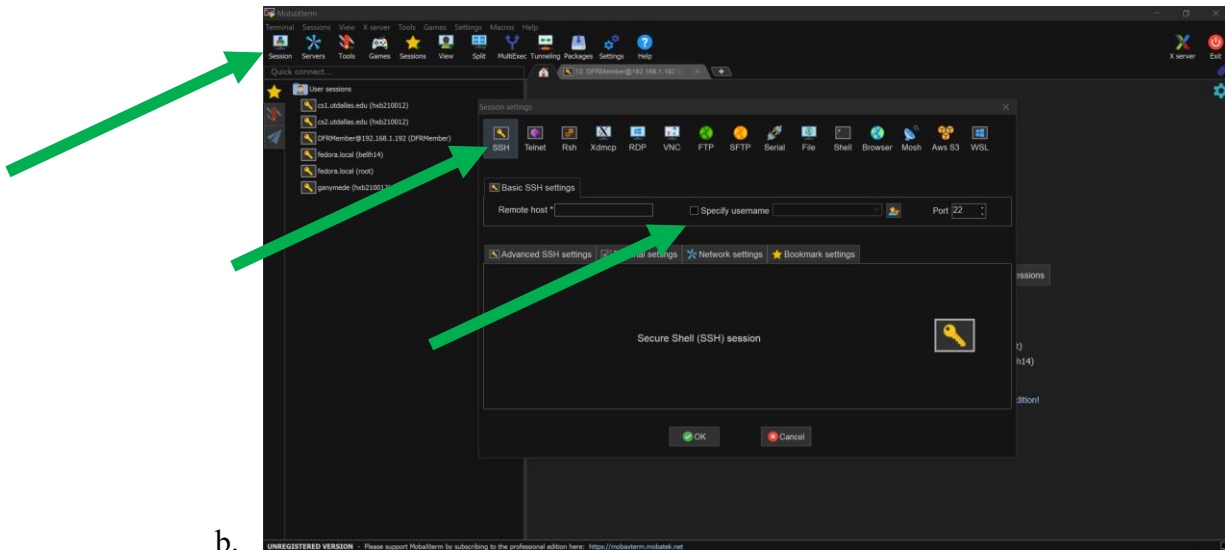
- d.
- e. Leave this running while you are connected to the server
- f. Only have to do this next step once
 - i. Go back to the putty window from earlier, type this in and click open



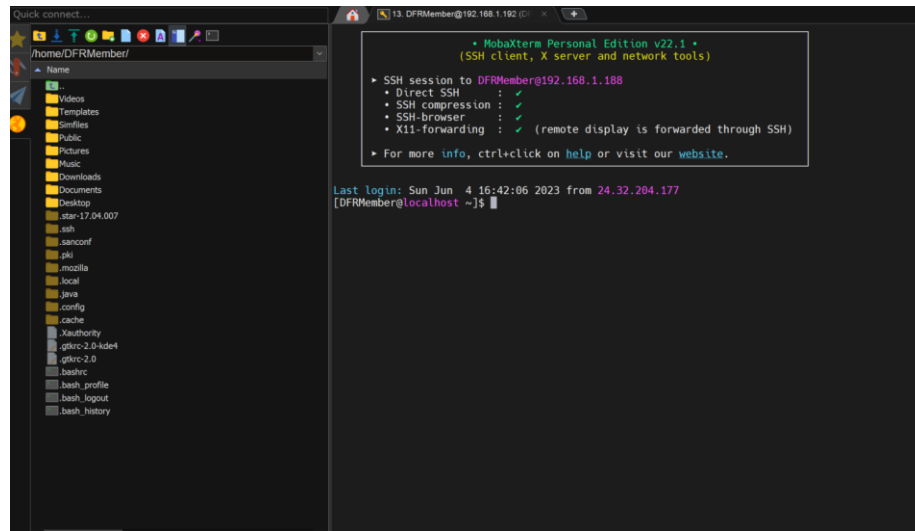
- ii.
- iii. You will see this ish



- iv.
 - v. This only needs to be done the first time
6. Open MobaXTerm
 - a. Open it



- b.
- c. Click following green arrows
- d. In remote host type the same hostname you used for putty in step f
- e. In Specify username type: DFRMember
- f. Click Ok
- g. This will be saved on later uses as shown in the left panel
- h. Should see this



- i.
- j. For now you can just create a new directory for yourself and upload sim files to there
- k. Works like normal, double click / right click
- l. You can upload or download with right click to/from current directory
- m. You don't have admin privileges on this account so let me know if that causes a problem
- n. There is about 6 TB of spare space on this drive, will add more later, just lazy
7. Open star
 - a. Type and enter: starccm+
 - b. This will pull up starccm gui locally
 - i. You do not need to have star installed

- ii. This runs off the server, don't worry
- c. You can now use starccm like normal
 - i. Remember to use POD
 - ii. Parallel set to 24 (for now)