# Guide to setting up server-related stuff

## User Accounts

### Create new user account

1. Open a terminal using a pre-existing account with sudo priviledges (see Remote connection)
2. sudo adduser <username>
3. Fill in the details, can just press Enter to skip
4. Allow user to sudo
   a. sudo usermod -aG sudo <username>
5. Allow user to use Docker without sudo
   a. sudo usermod -aG docker <username>
6. (Issue) If VSCode has a permission issue with the Docker extension
   a. ps aux|grep bin/code-server
   b. kill <process-id> (it's the first number of the row, usually quite long)
7. (Issue) If user cannot sudo or use docker without sudo, permissions need to be refreshed
   a. EITHER
      i. newgrp sudo
      ii. newgrp docker
   b. OR
      i. Just re-login
8.

### Change user account details

#### Change password

1. Log in into the account
2. passwd

### Remove user account

1. Log in to any account with sudo priviledges
2. userdel -r <username>
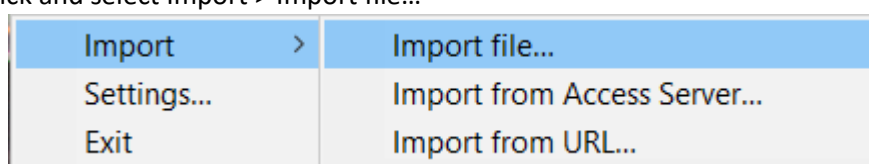   a. -r flag is to remove the home directory as well

## Remote connection

### Connect to server via VPN

#### Windows

1. Download and install OpenVPN
   a. https://openvpn.net/community-downloads/

2. There should be an icon in your task bar 
3. Right click and select Import > Import file…

   a. 
4. Browse and select the OpenVPN configuration file (Q3_VNet.ovpn)

5. Right click the icon and select connect, it should connect after a while
6. (Issue) If you encounter an error connecting, here are some potential solutions:
    a. Restart pc
    b. Run in admin mode
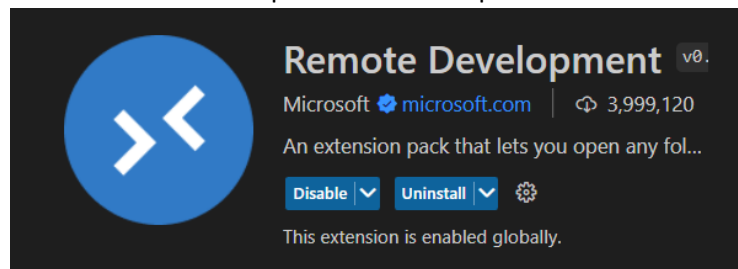    c. Use an older version of OpenVPN (2.5.5 worked for me)

## Linux (Ubuntu)
1. Open Settings > Network
2. Click the "+" sign beside "VPN"
3. Select import from file and select the OpenVPN configuration file (Q3_VNet.ovpn)
4. Turn on the VPN

## Connect to server via ssh
1. ssh <username>@11.0.0.3
    a. Server IP is prone to change if VPN Gateway is redeployed or VPN connection from server is refreshed
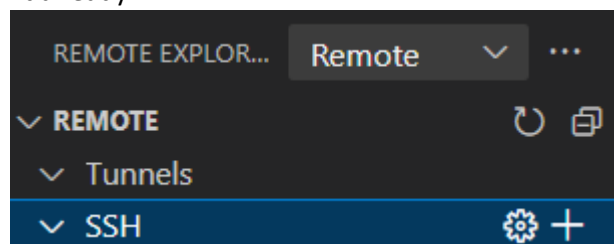
## Connect to server via VSCode
1. Download the Remote Development extension pack in VSCode

   a. 

2. Click the Remote Explorer button on the left bar , set the remote explorer to "Remote" if it hasn't already

   a. 
3. Click the "+" button and set up the ssh (see *Linux (Ubuntu)*
4. *Open Settings* > Network
5. Click the "+" sign beside "VPN"
6. Select import from file and select the OpenVPN configuration file (Q3_VNet.ovpn)
7. Turn on the VPN
5. Connect to server via ssh)
6. The platform to select is Linux