
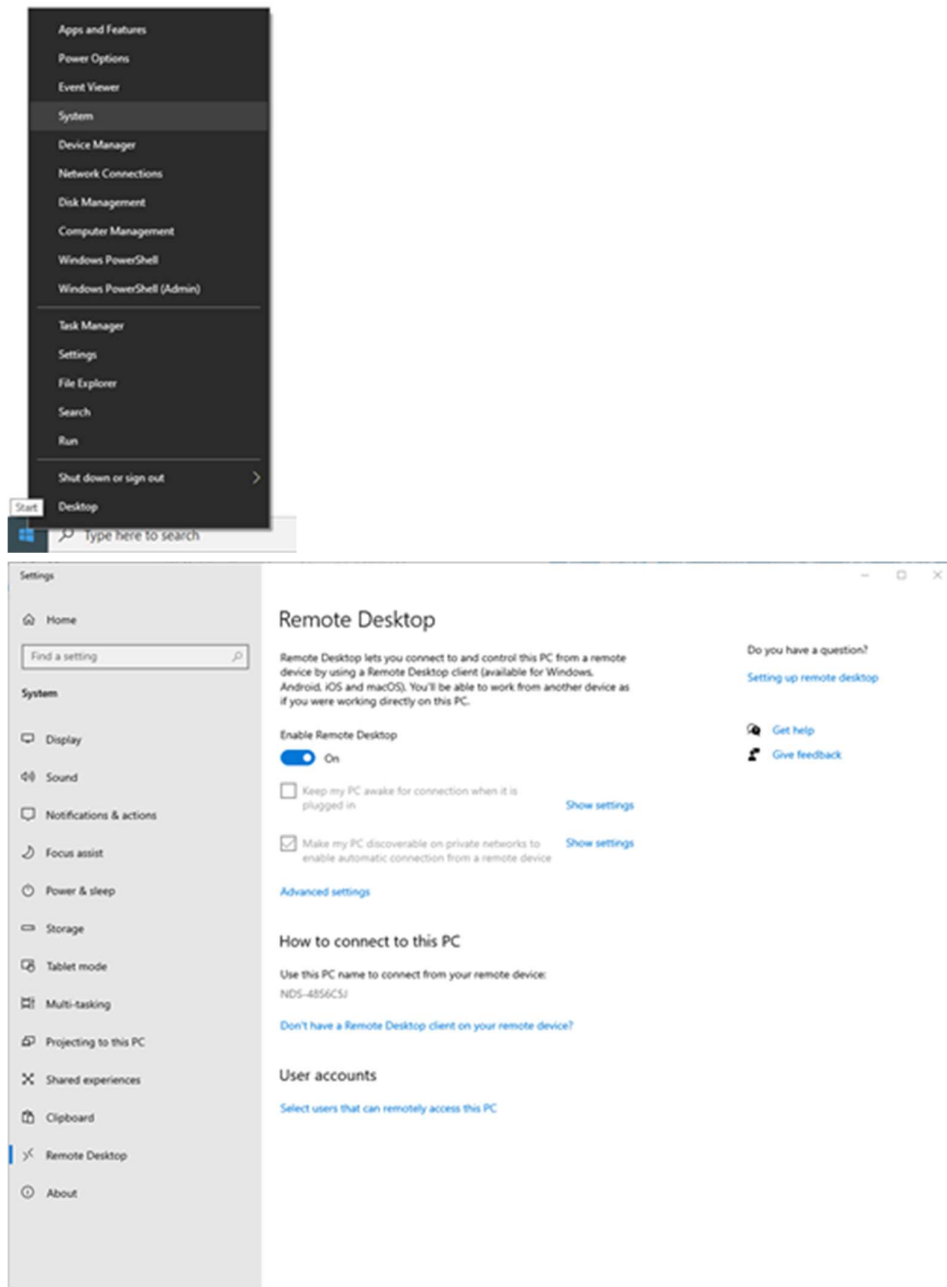


Remote Desktop to a Physical Computer within NDS

The below guide should help you gain access to your physical computer from another device. This might be because you work with sensitive data or need access to specific software or services only available on a physical computer within an NDS building.

1. Registered for remote working on the university IT the self-registration page @ <https://register.it.ox.ac.uk/self/index>. You will need your Single Sign-On username and password to access the page.
2. On your WORK computer, right-click the windows icon  on the taskbar and select the **system** option. In the settings application that opens, go to the **Remote Desktop** option and make sure that the **Enable Remote Desktop** setting is on. Also go to the **Advanced Settings** link and make sure that the **Require computers to use Network Level Authentication to connect** option is ticked.

Making a secure remote Desktop Connection



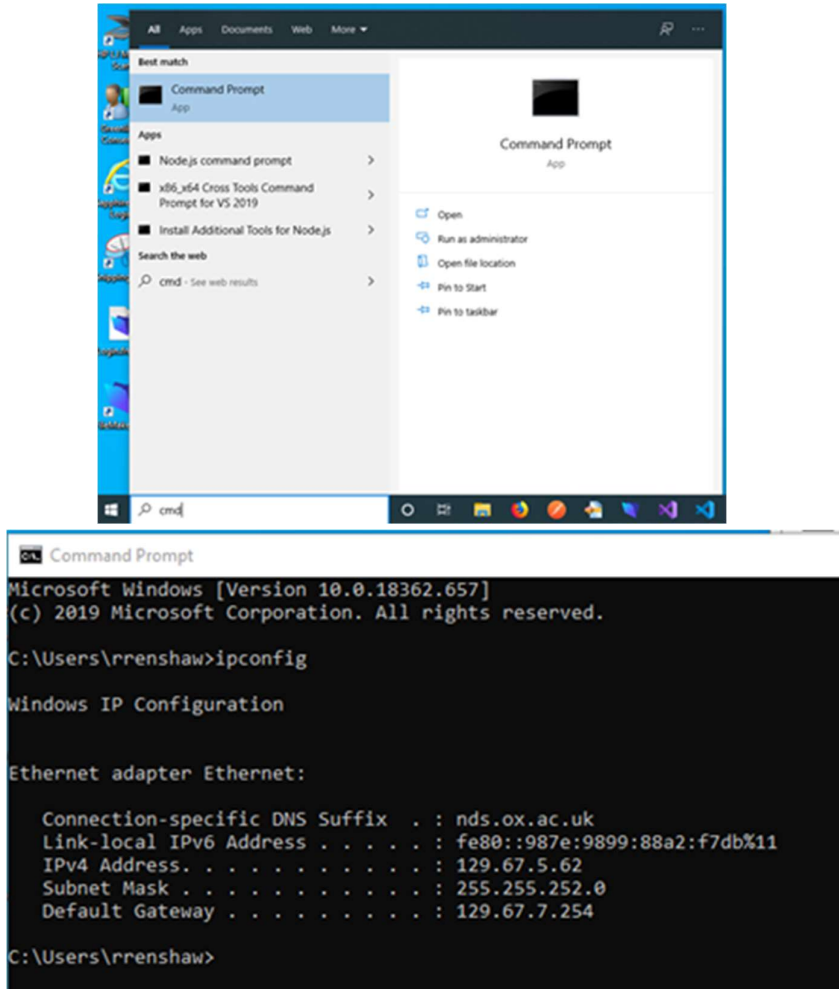
Making a secure remote Desktop Connection




Also, go to the **Power Options** page and set the **Sleep** timeout to **Never**.

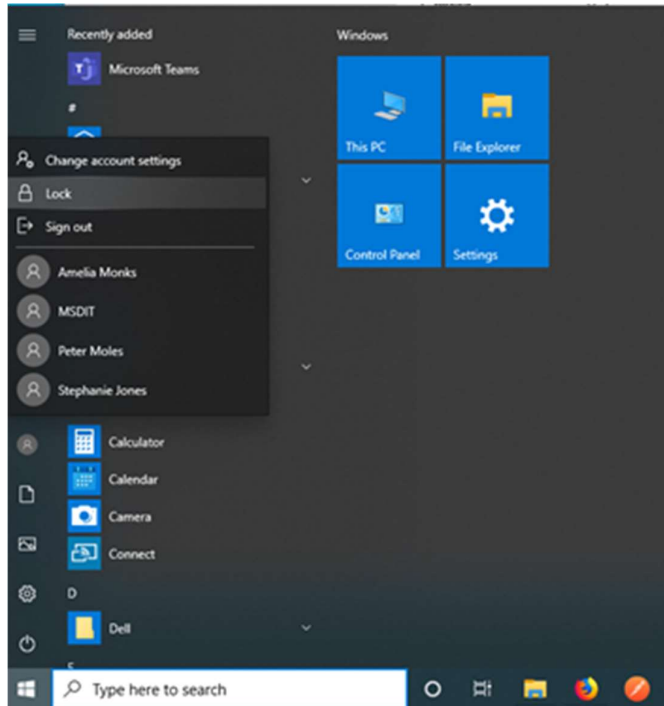
3. One last thing you need to do on your WORK computer is to type **cmd** in the searchbox and open a command prompt window. In the command window, type **ipconfig** and make a note of the **IPv4 Address**, which will be a quartet of numbers separated by dots – eg: 129.68.4.111. You will need this later to set-up remote access.

Making a secure remote Desktop Connection



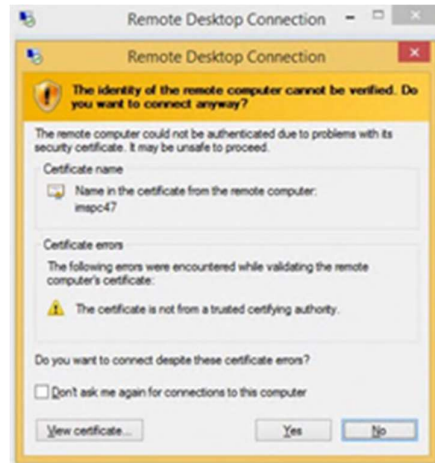
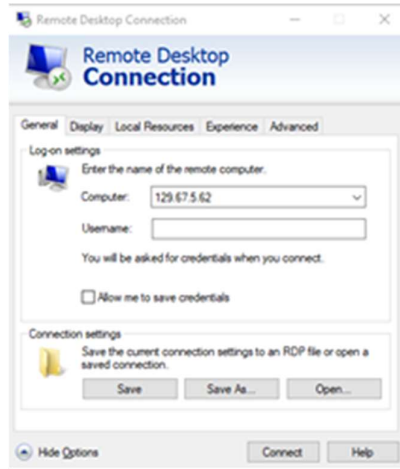
4. Your WORK computer MUST be powered-on to access remotely, so when leaving work, use the Windows Sign-out or Lock option to leave the computer running but secure. To lock your computer, either use the **Windows** and **L** keys, or (left) click the windows icon  on the taskbar and then on your account icon, to display the account management options.

Making a secure remote Desktop Connection

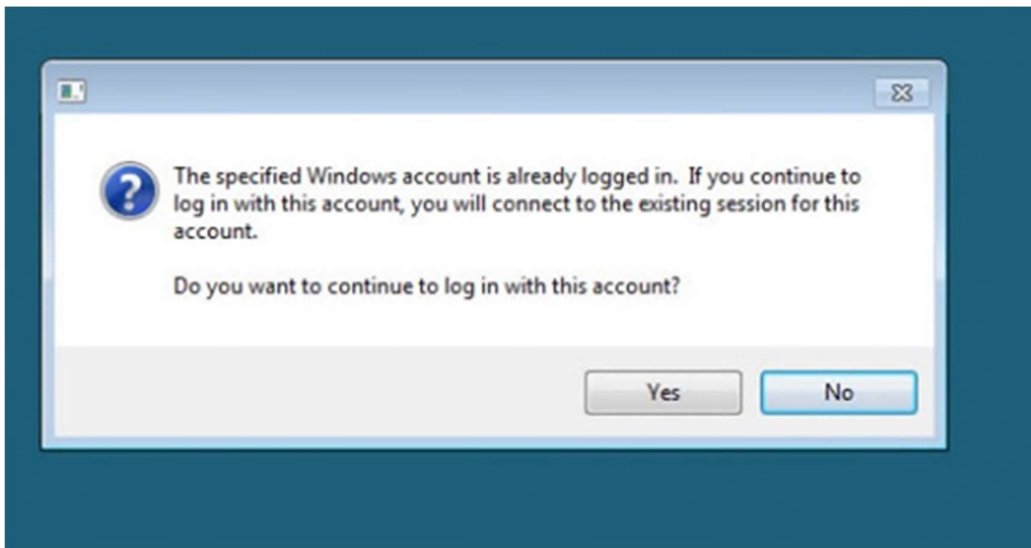


5. On your HOME computer, connect to the University IT software download page <https://register.it.ox.ac.uk/self/software> to download if required the Cisco VPN Client software appropriate to your computer's operating system, and then configure it according to the instructions available at <https://help.it.ox.ac.uk/network/vpn/index>
6. Once you have successfully installed, configured, and established a connection using the VPN Client software, disconnect and replace the text in the Ready to Connect box with **vpn.medsci.ox.ac.uk**. Having successfully connected to the MSD VPN, the Cisco AnyConnect should display the text **MSD IT services VPN**.
7. To use remote desktop access, MAC PCs and laptops will need the **Microsoft Remote Desktop** client, available by downloading from the Apple App Store if not already installed. Below is the full MSD setup instructions for further reference if required.
8. On Windows, start to type **Remote Desktop Connection** into the search box, and click to open the **Remote Desktop Connection** dialog. In the Computer field, enter the IP address you noted in step 3. You can also click the Show Options button to enter your MSD username and to save the details entered for next time. DO NOT tick the **Allow me to save credentials** option.

Making a secure remote Desktop Connection



9. On clicking **Connect** you should see a yellow warning as above. You can tick the **Don't ask me for connections to this computer** checkbox and then click **Yes**
10. If you left your username logged in to your work PC, you will then be presented with the following:



11. Click **Yes**, and you should see your WORK computer desktop and be able to do most of the things you would normally be doing at your desk. The one exception to this we've encountered so far is when working through vWorkspace with NHS resources requiring Smart card access

If you have a device at home that needs to be configured for remote desktop please contact Peter Moles who will be able to access the physical machine after the 25th March 2020 or MSD IT ithelp@medsci.ox.ac.uk

To set up the computer at home please contact Peter Moles who will be able to do a remote desktop support session to help get your connection set up.

MSD IT Services



Making a secure Remote Desktop Connection to your Work Windows 10 Desktop PC Using the MSD ITS VPN Service and a Windows, Mac OS X, or Linux Remote Desktop

MSD IT Services ithelp@medsci.ox.ac.uk

05/02/2020

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MSD IT Services February 2020

Introduction

Background

Medical Sciences Division IT Services (MSD IT) implements a security policy to protect the IT infrastructure of the University's Medical Sciences Division from unauthorised use and intrusion. As part of the security measures, MSD IT operates network filters, which block access to the MSD IT network on certain ports.

Those wishing to access their office (or lab) computer can do so via 'Windows Remote Desktop', having first established a connection to MSD IT's Virtual Private Network (VPN) service.

Connections covered in this document.

- (a) Remote Windows PC to a Work Desktop Windows
- (b) Remote Macintosh PC to a Work Desktop Windows
- (c) Remote Ubuntu Linux PC to a Work Desktop Windows

Brief overview of the procedure

The procedure to connect to your Work Desktop PC from your Home PC requires the following steps; they are, after connecting your Home PC to your own internet connection:

1. Make a connection to your local (home) network
2. Make a Virtual Private Network (VPN) to the MSD IT Services VPN service.
3. Make a Remote Desktop Protocol (RDP) connection to your Work Desktop PC.

Before you begin - Requirements for all 3 types of connections mentioned above

These requirements are needed **BEFORE** you attempt to access your Work Desktop PC from your Home machine. You will need:

- An MSD IT network account (aka 'Novell login account')

Making a secure remote Desktop Connection. Version 6.0

- A Virtual Private Network client for your local (Home) operating system (recommended client software):
 - **Windows PCs:** The University of Oxford's IT Services Virtual Private Network (Cisco AnyConnect VPN) client.

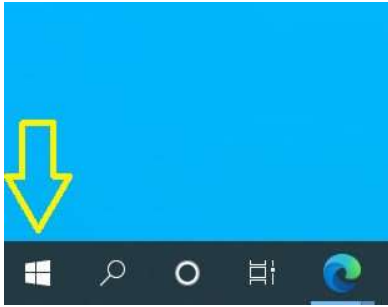
 - **Macintosh PCs:** The Apple OS X native VPN client

 - **Ubuntu PCs:** Either the University of Oxford's IT Services Virtual Private Network (Cisco AnyConnect VPN) client, or the native VPN client.
- You will also need to know the IP address of your Work PC; if you don't know this, contact MSD IT Services
- Your work computer must be switched on

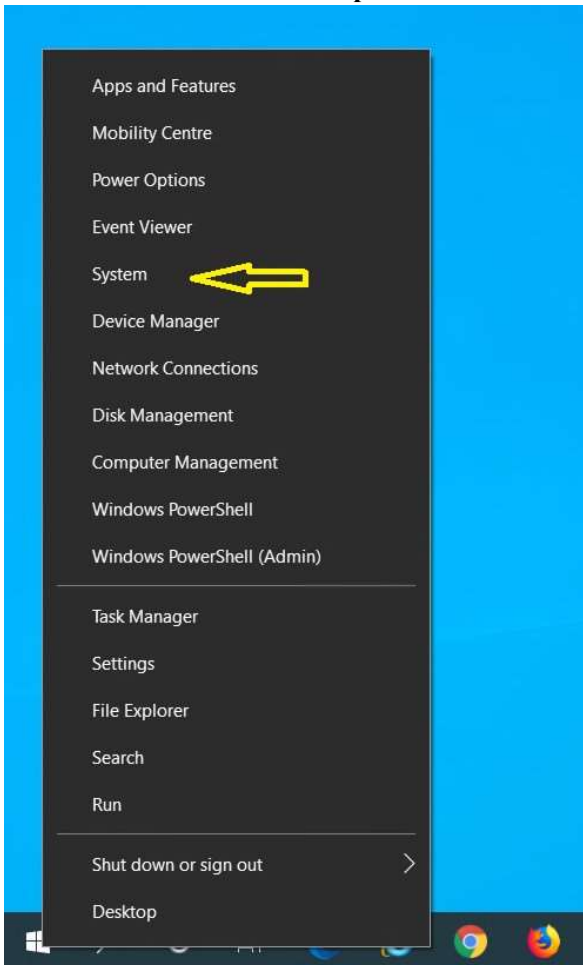
Please Note: The following step MUST be completed on your Work PC BEFORE you attempt to connect to it from your Home PC.

Enabling Remote Desktop Connection on your Work Windows PC

- In Windows 10, right click on 'Start' icon, & select '**System**':

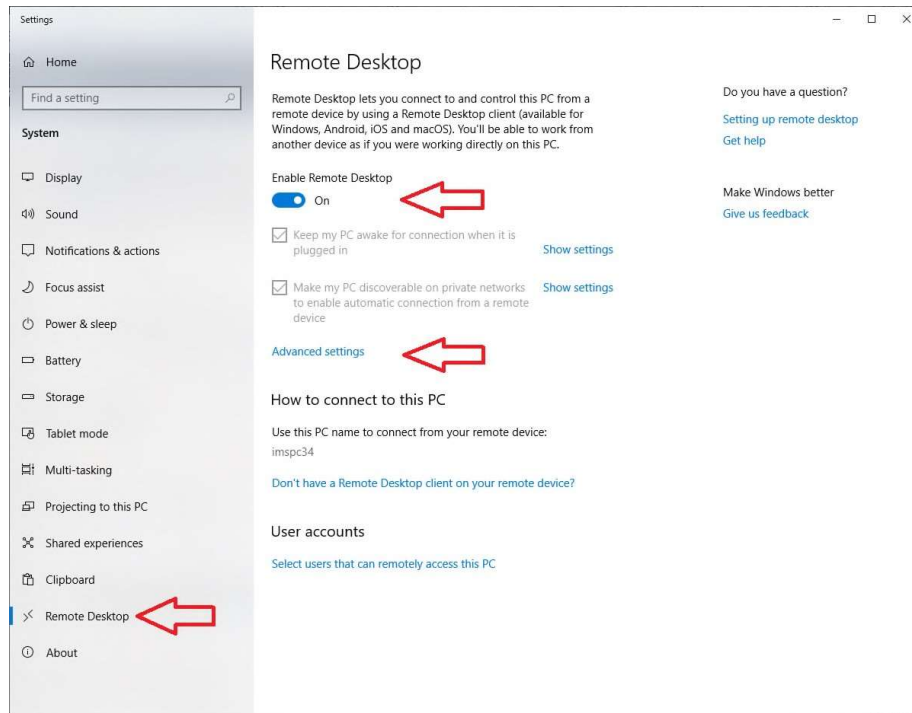


- Select '**Remote Desktop**' from the left hand column:

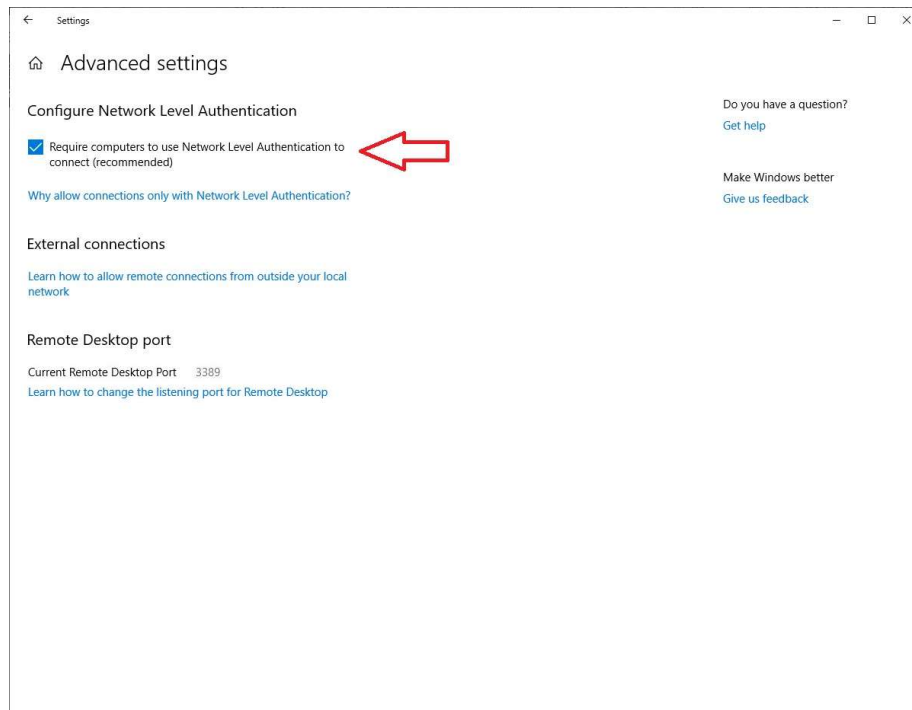


- Set 'Enable Remote Desktop' on. :

Making a secure remote Desktop Connection. Version 6.0



- Click on 'Advanced settings' & tick the box 'Requires computers to use Network Level Authentication.....'



- Close the Settings panel & your work PC is now configured for Remote Desktop Access.

The next section deals with configuring your Home or remote PC to access your Work PC via the MSD IT VPN service.

Remote/Home Windows 10 PC set up

Part A: Setting up the VPN software

- If you have not already done so, download and install the Cisco AnyConnect VPN Client from the University of Oxford IT Services Registration Pages at:

<https://register.ox.ac.uk>

Log in with your Single Sign On (SSO) username/password and select 'Software', then 'VPN Client' from the links provided. Download the Windows 10 client and install it; this client is preconfigured for use with the University of Oxford VPN Service but you must use the MSD IT VPN service for RDP sessions.

- Once installed, start the Cisco AnyConnect VPN Client:

Start> Cisco > Cisco AnyConnect Secure Mobility Client

- Make sure the 'Ready to connect' box contains:

vpn.medsci.ox.ac.uk

...as shown:



...then click on 'Connect'.

- Following your first successful connection the login panel will look like this:



- There is no need to over type the address.
- Next enter your Novell account details in the 'Username:' and ' Password:' boxes provided:

Making a secure remote Desktop Connection. Version 6.0

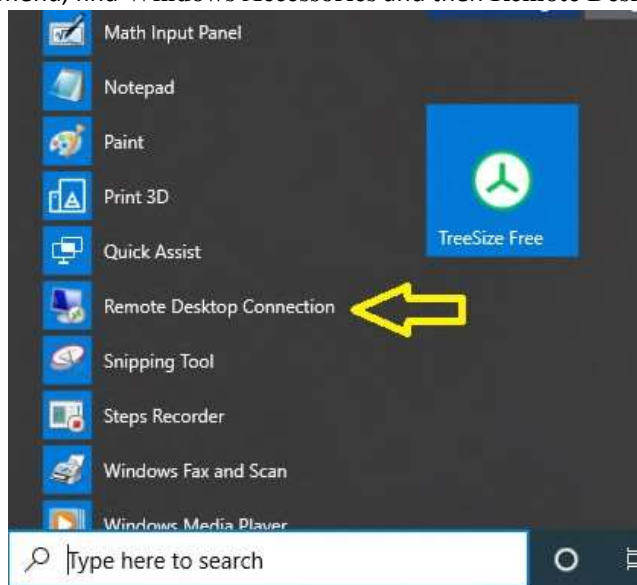


...then click 'OK'

Once a successful connection has been made, the VPN Client will minimise itself to the System Tray (bottom right hand corner of the desktop.)

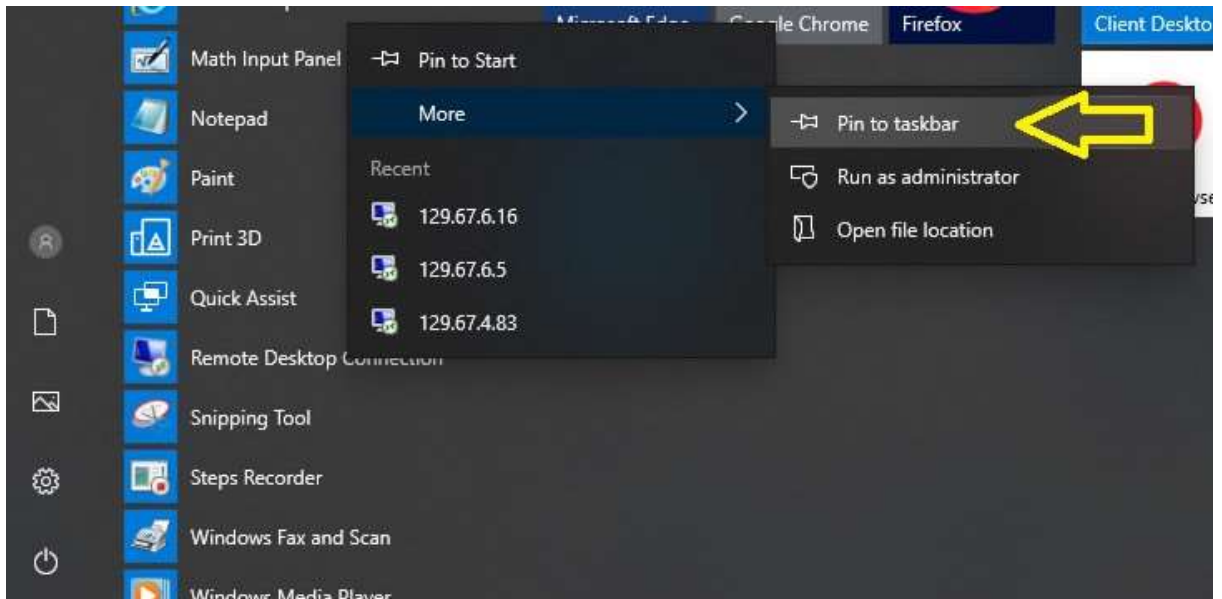
Part B: Setting up the Remote Desktop software and connecting

- From the Start menu, find **Windows Accessories** and then **Remote Desktop Connection**:



Tip: You may like to pin this to your task bar, by a right click on the item & then select more & Pin to task bar:

Making a secure remote Desktop Connection. Version 6.0

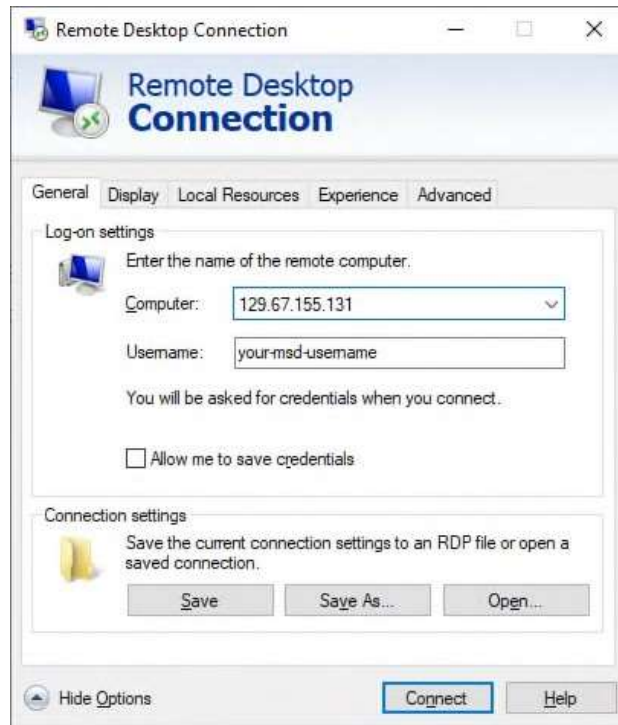


- In the pop panel select: ‘**Show Options**’ in the bottom left hand corner



- Type in the IP address of your work computer (e.g. ‘129.67.155.131’) and your MSD Network username, then click Connect

Making a secure remote Desktop Connection. Version 6.0



- You should then receive a message like this:

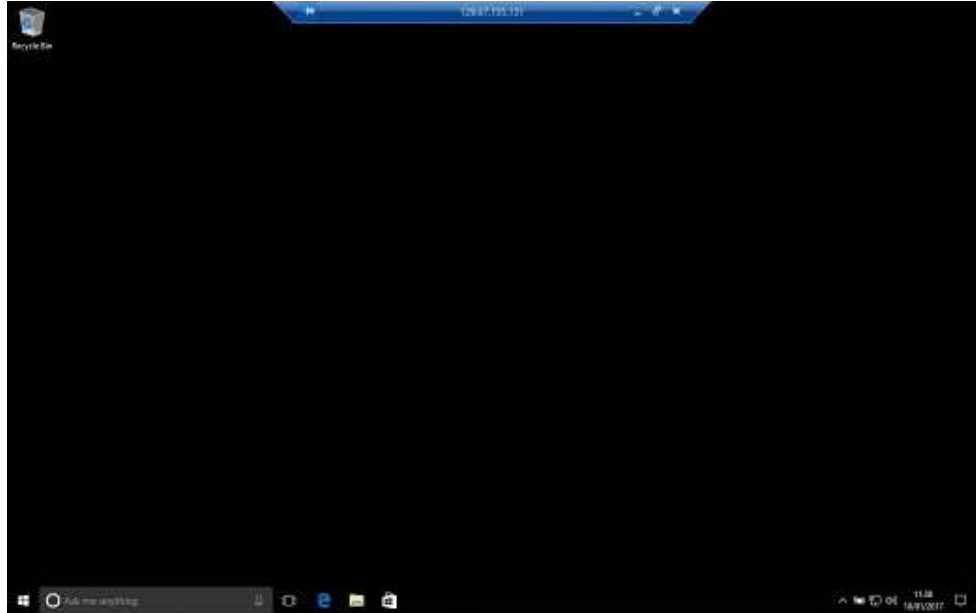


- Tick the box '**Don't ask me for connections to this computer**' and then click 'Yes'.
- If you left your username logged in to your work PC, you will then be presented with the following:

Making a secure remote Desktop Connection. Version 6.0



- Again select 'Yes' and you will finally be connected to your Work PC:

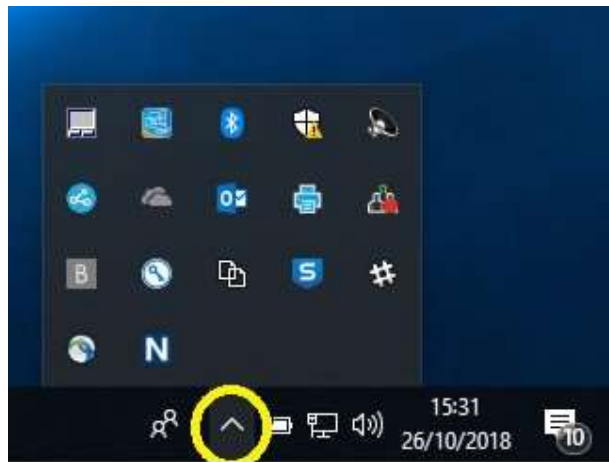


- If you hadn't left your remote computer logged in and you need access to your network drives, you can now log into the network
- If you see a large letter 'N' in the system tray:

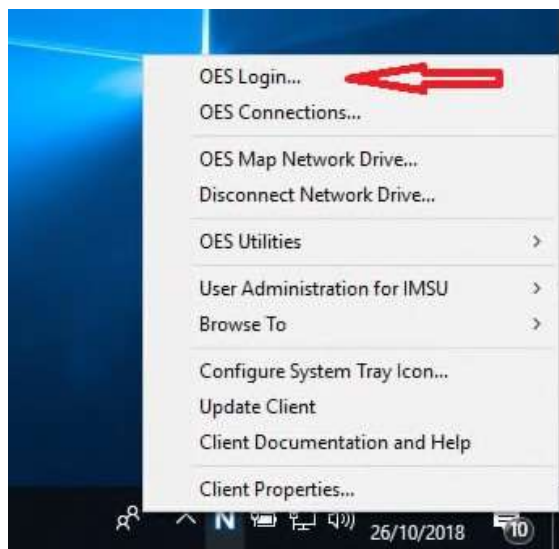


- If you don't see the 'N' in the system tray, click on the caret

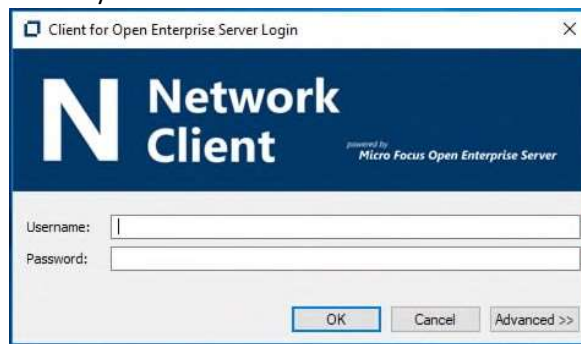
Making a secure remote Desktop Connection. Version 6.0



- Then right click-on the 'N' & click on 'OES Login...'



- You can then log in to see your network drive:

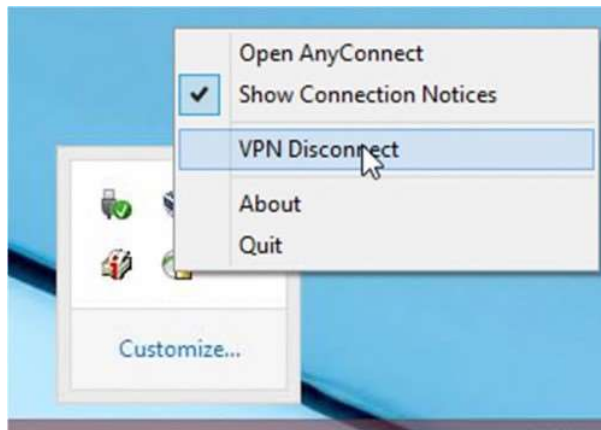
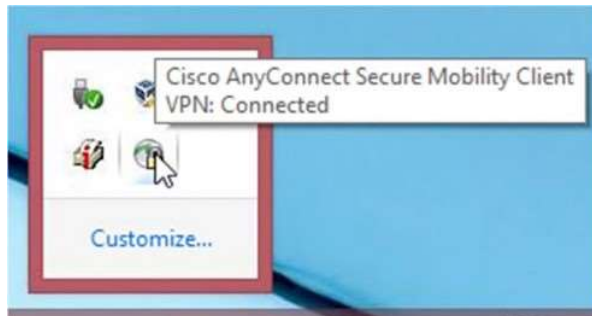


Part C: Disconnecting from your Work Desktop PC

- Close down the RDC session (do not 'Shutdown' or 'Log off' from your Work PC - unless this is actually what you want to do), simply click on the 'X' on the top central panel of the RDP Screen, titled with your Work PC's IP address, e.g.:



- Now close the VPN Session; in the System tray locate the Cisco AnyConnect icon, right click on it and select 'VPN Disconnect':



This will end your VPN session.

Remote/Home Mac OS X PC set up

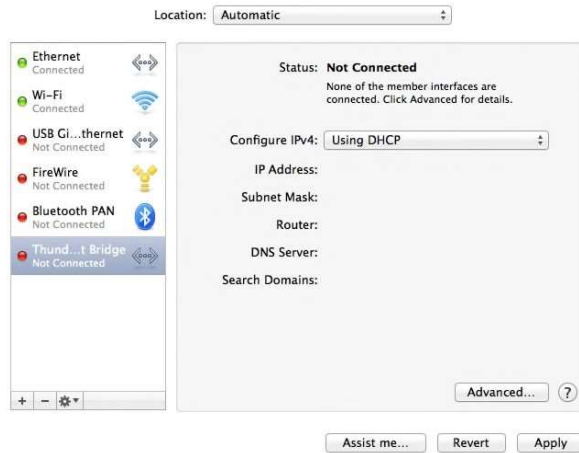
Part A: Setting up the VPN software

- To configure the Apple OS X native VPN client, from **System Preferences** (either from the Dock or the Apple Menu) select **Network**:

Making a secure remote Desktop Connection. Version 6.0



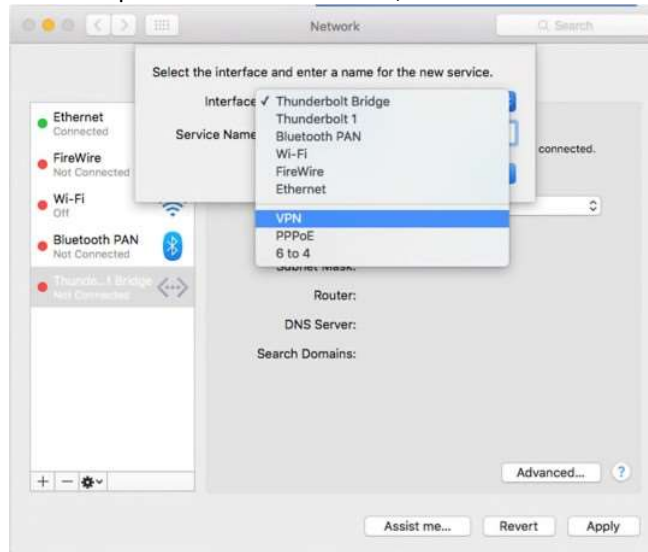
- In the Network Control Panel click on the '+' symbol in the lower left hand corner to add a new network connection:



Making a secure remote Desktop Connection. Version 6.0



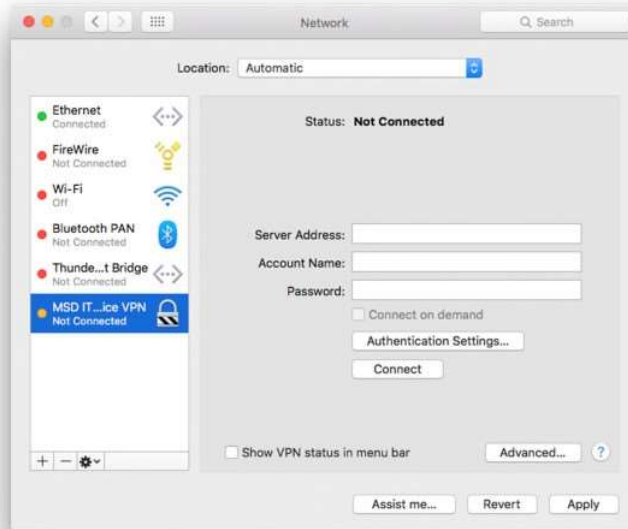
From the pull down 'Interface:' list, select VPN:



- Then from the 'VPN Type:' list select 'Cisco IPSec' and give the service a name (in the example below, 'MSD IT Services VPN'), then click the 'Create' button.



- You will now see the new service in your list of Network services (shown below as 'MSD IT Services VPN Not Connected'):



Making a secure remote Desktop Connection. Version 6.0



It now needs to be configured for access. Click on the 'Authentication Settings...' button; you will see the screen below, in the 'Shared Secret:' box enter: **Medicine**

- in the 'Group Name:' box enter:

MSD



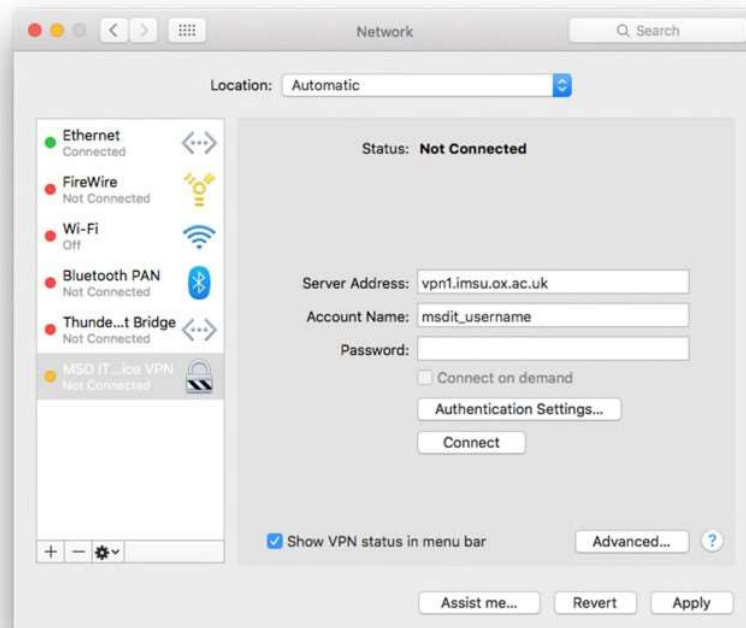
...then click 'OK'

- Next make sure you enter:

vpn.medsci.ox.ac.uk

in the 'Server Address:' box

- You can also add your MSD IT Services Novell username; we would **NOT** recommend adding your password at this stage.



Making a secure remote Desktop Connection. Version 6.0

□

Tick the box 'Show VPN Status in menu bar'. Once all these changes are made click on the 'Apply' button to save them. You will now see a new icon in the Status Menu bar (near the top right) as shown below:



- You can use this to pull down the options menu to select 'Connect', once connected successfully a counter to the right of the icon may start counting up the connection time, if you have enabled this option.

Part B: Setting up the Remote Desktop software and connecting

- Open 'Remote Desktop Connection' either from the Dock or via Go > Applications > Remote Desktop Connection, and in the 'Computer:' box type the IP address of your work PC (we will use '129.67.155.131' as an example here) as shown below:



- You will then be presented with another dialog:



- Enter your Novell User name and Password (leave the domain field blank) and click 'OK.'

Making a secure remote Desktop Connection. Version 6.0

□

You should now have a Remote Connection to your work desktop:

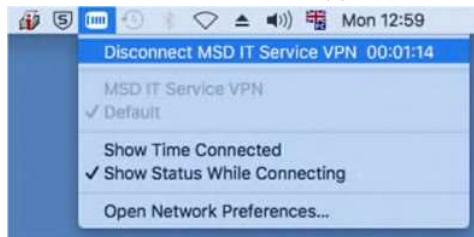


Part C: Disconnecting from your Work Desktop PC

- To disconnect the remote connection, simply close RDC.



- Now click on the VPN icon in the Apple Menu and select 'Disconnect'



You are now disconnected from your Work PC.

Ubuntu 14.04 Home PC set up

This guide has been compiled using Ubuntu 14.04 'Trusty Tahr'; other flavours of Ubuntu (and indeed linux) may vary.

Making a secure remote Desktop Connection. Version 6.0

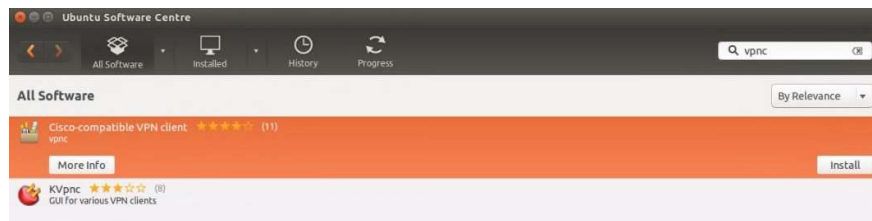
□

Ubuntu offers the opportunity to use an inbuilt (with a plugin installation) VPN Client or the Cisco AnyConnect VPN Client. We deliberately skirt the issue of installation of the AnyConnect Client here and recommend using the native VPN client on 64-bit Ubuntu - unless you find solving multiple dependency issues an enjoyable challenge.

Part A: Setting up the VPN software

(i) Native VPN Client

- Firstly you need to install the native Ubuntu Cisco Compatible VPN 'plugin.' Go to the Ubuntu Software manager, type in `vpnc` and highlight 'Cisco-compatible VPN Client' and select 'Install'



If you can't find this in the Ubuntu Software manager, open a terminal and type

```
sudo apt-get install network-manager-vpnc
```

and press Enter. Provide your password when prompted and allow apt-get to install the necessary software.

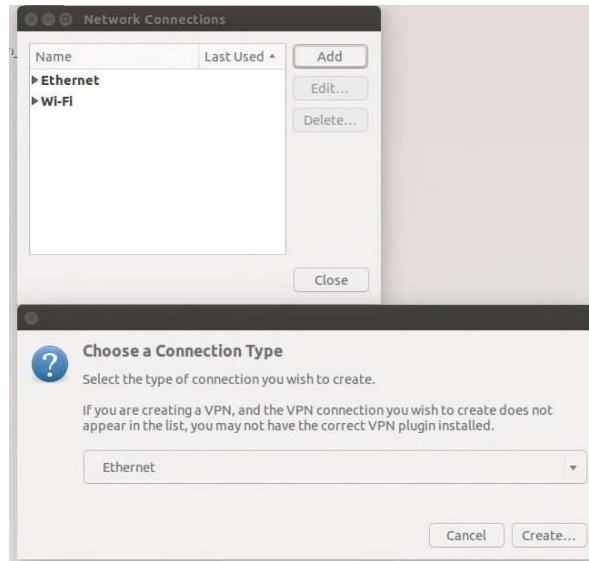
- Once installed, go to the Network Manager near the top right hand corner (the \updownarrow icon) and select 'VPN Connections' then 'Configure VPN':



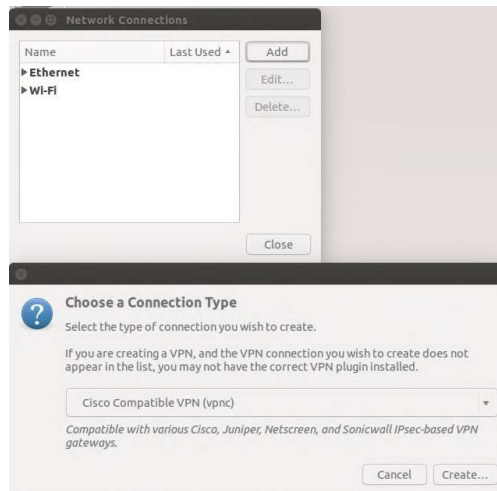
- Then from the Network Connection box click 'Add' and from the drop-down box scroll down to 'Cisco Compatible VPN (vpnc)' and select it:

Making a secure remote Desktop Connection. Version 6.0

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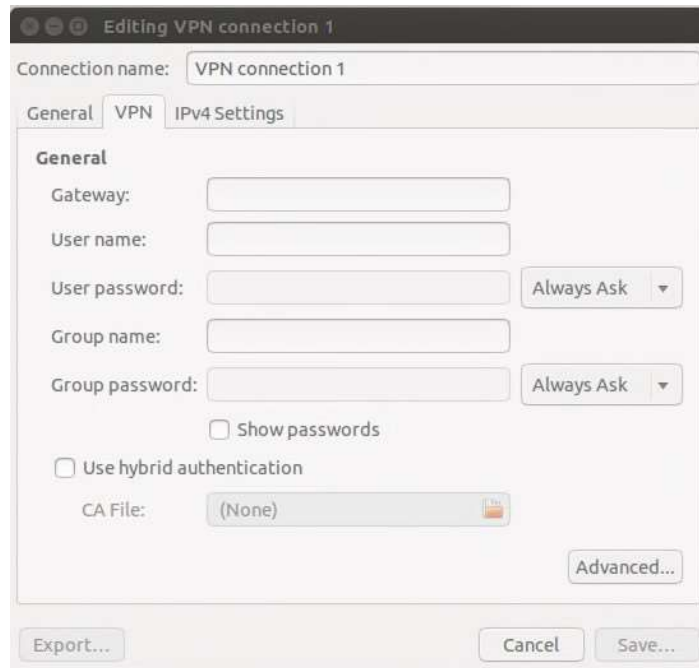
- Once selected click on the 'Create' button to configure the client:



- In the Connection Name field enter something like 'MSD ITS VPN'; for the other boxes:

Gateway: = **vpn1.imsu.ox.ac.uk**
User name: = **Your MSD IT Novell username**
User password: = **Leave blank**
(select 'Always Ask' from the menu options)
Group name: = **MSD**
Group password: = **Medicine**
(select 'Save' from the menu options)

□



- Then click 'Save' and close all the windows
- To connect, select the VPN Service you created from the list in the Network Manager in the top right hand corner; you will be asked to enter your MSD ITS Network/Novell account password, as shown below:



- Once this is done you should now have established a VPN connection to the MSD Network.

(ii) [The Cisco AnyConnect Secure Mobility Client](#)

- If you have not already done so, download and install the Cisco AnyConnect VPN Client from the University of Oxford IT Services Registration Pages at:

<https://register.ox.ac.uk>

Making a secure remote Desktop Connection. Version 6.0

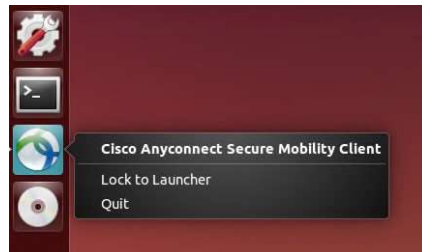
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Log in with your Single Sign On (SSO) username/password and select 'Software', then 'VPN Client' from the links provided. Download the 'Client for Linux' and install it; this client is preconfigured for use with the University of Oxford VPN Service but must use the MSD ITS VPN service for RDP sessions

- Once the Cisco AnyConnect VPN Software has been downloaded and installed, start the Cisco VPN Client from the Ubuntu Search Box:



Hint: Right click on the Cisco Icon and select 'Lock to Launcher' for future use.



- Once started up, you can configure it as you would the Windows and Mac versions, as shown below:



Making a secure remote Desktop Connection. Version 6.0

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- Enter **vpn1.imsu.ox.ac.uk** in the 'Connect to:' box:



- Then enter your Remote Access Account username and password in the appropriate boxes and click 'Connect'.



- Once a successful connection has been made, the client will minimise itself to the Launcher. To check your 'Connection Status', click on the 'Cisco AnyConnect Secure Mobility Client'



- You can then see the connection details as shown below:

Making a secure remote Desktop Connection. Version 6.0

□



Part B: Setting up the Remote Desktop software and connecting

- Install (if not already present) the Remote Desktop software called 'Remmina' - This can be done from the 'Ubuntu Software Centre'
- Once installed, from the Ubuntu Search box type:

Remmina

and click on the 'Remmina Remote Desktop Client' application icon:



This will open Remmina in the Launcher

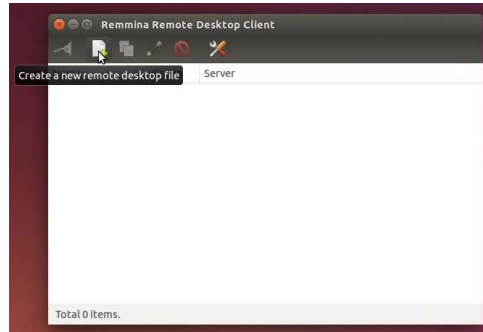
(**Tip:** Right Click on the Remmina icon and select 'Lock to Launcher' for later use)



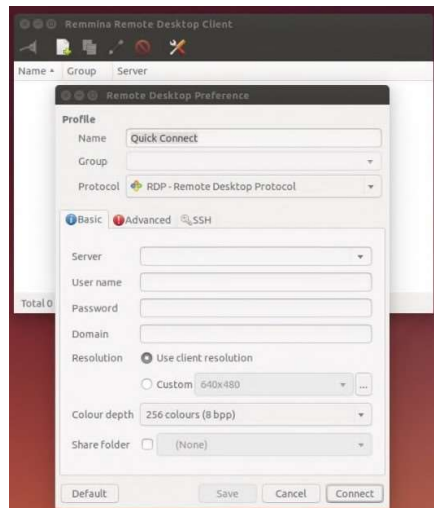
- Once Remmina is open on the desktop, click the 'Create a new remote desktop file' button (the icon with a green + symbol):

Making a secure remote Desktop Connection. Version 6.0

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- On the 'Basic' tab:



...give the Profile a name like 'Work Desktop' and fill in the fields as shown below:

Server: IP address of your Work PC

User name: Your MSD IT Network/Novell username



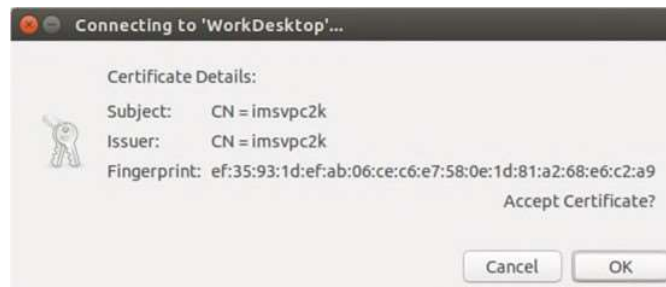
- In the 'Advanced' tab you can change the video Quality setting, from fastest to slowest as necessary:

Making a secure remote Desktop Connection. Version 6.0

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- Click on the 'Connect' button and enter your MSD IT Services Network/Novell Account password. The very first time you connect you will see a dialog similar to the one below:

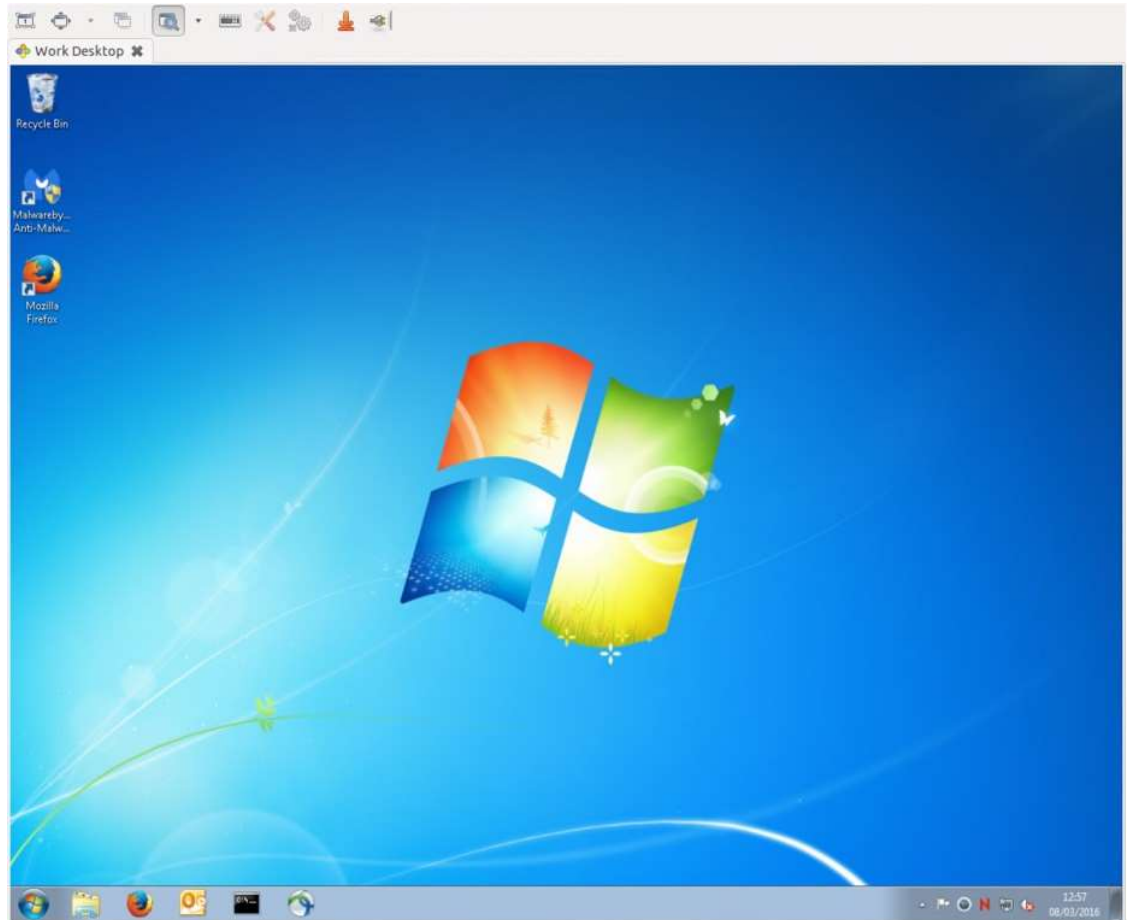


- Click OK
- If you left your username logged in to your work PC, you will then be presented with the following:



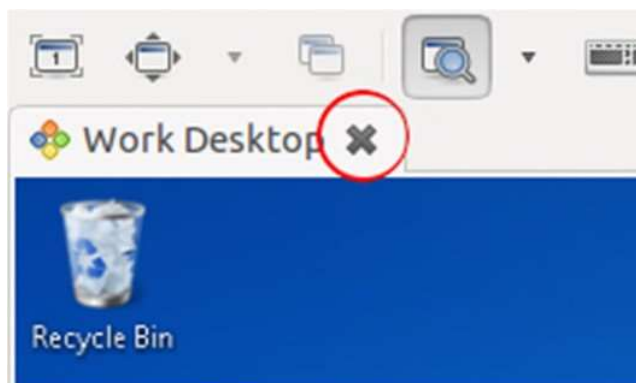
- Click 'Yes' and your Remote (Work PC) Desktop will be displayed.

□



Part C: Disconnecting from your Work Desktop PC

- To disconnect simply click on the **X** on the tab for the name you saved the connection as (in this case 'Work Desktop'):



- Then disconnect the VPN Connection, either via the Network Manager > VPN Connections > Disconnect, or via the Cisco AnyConnect client, whichever was used.

□

The MSD IT Services Team.