## Connecting to WIMM Windows Desktop Working Remotely

If it becomes necessary that you work from home as a result of COVID-19 isolation requirements there are a number of options open to you. In all cases you must ensure that the machines connecting to Institute systems are patched with the latest security updates and are running anti-virus programs that are updating with the latest virus/malware information.

IP addresses in the screenshots in this document have been deliberately obscured.

It is not possible to allow remote connections to multi-user systems within the Institute. Remote access is only possibly from a single remote connection to a single user account on an Institute desktop.

1. If you have a laptop or desktop at home you must use the University of Oxford VPN client when accessing restricted University data and services from your home WiFi. Details of the University VPN can be found at:

https://help.it.ox.ac.uk/network/vpn/index

- 2. If you are transferring confidential or sensitive data from WIMM systems via USB drives or laptops then the data should be encrypted.
- 3. If you wish to access your WIMM server account home and shared folders remotely you will need to use the VPN client in order to log into the WIMM servers via the Windows MicroFocus client or the Macintosh native client.
- 4. If you want to access your WIMM home folder (not lab shared folders) remotely it is also possible to do this via a web interface, see:

https://netstorage.imsu.ox.ac.uk/

## Connecting remotely to your Institute Desktop System

If you wish to connect to your desktop computer in the WIMM then please email:

#### help@imm.ox.ac.uk

to request an account on the WIMM ssh gateway (this will have the same username and password as your University SSO account).

The instructions below describe how to use your WIMM ssh gateway account to make a connection to your Institute desktop system. Instructions are given for Windows, Macintosh and Ubuntu platforms.

It is essential that you know the IP address of the Institute computer you wish to connect to remotely. It is also essential you know the username and password to log on to your Institute desktop, your SSO (Single Sign On) username and password and your Remote access password.

Follow these instructions to find out the IP address of your Ethernet (wired) connection on your Institute desktops:

Ubuntu desktop:

https://help.ubuntu.com/stable/ubuntu-help/net-findip.html.en

Windows desktop:

https://support.microsoft.com/en-us/help/4026518/windows-10-find-your-ip-address

Macintosh desktop:

https://www.wikihow.com/Find-Your-IP-Address-on-a-Mac

## To connect from remote (home) Windows PC to an Institute Windows Desktop

#### On your Institute Windows Desktop

Note the Ethernet IP address of the Institute Windows system.

On the Institute Windows Desktop you will need to enable sharing:

On the device you want to connect to, select **Start** > **Settings** > **System** > **Remote Desktop**, and turn on **Enable Remote Desktop**.

← Settings	
යි Home	Remote Desktop
Find a setting	Remote Desktop lets you connect to and control this PC from a remote device by using a Remote Desktop client (available for Windows,
System	Android, iOS and macOS). You'll be able to work from another device as if you were working directly on this PC.
🖵 Display	Enable Remote Desktop
(小) Sound	On
Notifications & actions	plugged in Show settings
	Make my PC discoverable on private networks to Show settings enable automatic connection from a remote device
🖒 Power & sleep	Advanced settings
📼 Storage	How to connect to this PC
- Tablet mode	Use this PC name to connect from your remote device:
曰: Multi-tasking	Imwin10dcjoin.imm.ox.ac.uk
Projecting to this PC	Don't have a Remote Desktop client on your remote device?
X Shared experiences	User accounts
🛱 Clipboard	Select users that can remotely access this PC
→ Remote Desktop	

# Click **Show settings** next to **Keep my PC awake for connection when it is plugged in** set the settings as below:

$\leftarrow$	Settings	
ŵ	Home	Power & sleep
Fi	nd a setting $ \rho $	Screen
Sys	tem	When plugged in, turn off after $\checkmark$
Ţ	Display	
다))	Sound	Sleep
$\Box$	Notifications & actions	When plugged in, PC goes to sleep after
I	Focus assist	Never ~
$\bigcirc$	Power & sleep	
	Storage	Performance and Energy
댼	Tablet mode	Power mode: Better performance
Ħţ	Multitasking	- Ø
Ð	Projecting to this PC	Best energy savings Best performance
ж	Shared experiences	Save energy and battery life
ĥ	Clipboard	Make your battery last longer by choosing shorter times

Go back to Remote Desktop. Under **User Accounts** ensure that only one user be allowed to access the system remotely and ensure that user account has a strong password.

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#### On your Home Windows Desktop

On your home Wifi you will need to use Oxford University VPN connection:

https://help.it.ox.ac.uk/network/vpn/index

#### Open a command prompt as Administrator:

https://blog.techinline.com/2019/08/14/run-command-prompt-as-administrator-windows-10/

#### In administrator command prompt enter (remote desktop port is 3389)

ssh SSO\_username@sshgw.imm.ox.ac.uk -L 3391:WIMM\_Windows\_IP\_Address:3389

The first time you do this you will be prompted to accept the ECDSA key fingerprint – type yes in response to this prompt:



You then need to run the Remote Desktop client to access the Institute desktop. Click on the **Start** menu and type

Remote

The system will then display:



Double-click Remote Desktop Connection to display:



Click Show Options drop-down to see all options

Enter the following:

#### localhost:3391

퉣 Remote	Desktop Connection		_		$\times$
	Remote Desktop Connection				
General Di	splay Local Resources Expe	rience Adv	vanced		
	Enter the name of the remote co	omputer.			
	Computer: localhost:3391			$\sim$	
	Usemame:				
	You will be asked for credentials	s when you o	connect.		
	Allow me to save credentials	I			
Connection	n settings				
	Save the current connection se saved connection.	ttings to an I	RDP file o	or open a	
	Save Save	• As	Op	ben	
Aide Opt	ions	Conr	nect	Help	)

Enter the username for the account permitted in the Remote Desktop connection set up on the Institute desktop

Click on Display tab, use the following settings:

둸 Remote Desk	top Connection		_		×
Re Co	mote Desk Dnnectio	top n			
General Display	Local Resources	Experience	Advanced		
Display configur	ation				
Sma	to the size of your re to the right to use the 1 1024 by 768 se all my monitors fo	emote desktop e full screen. Lar pixels r the remote se	o. Drag the sl ge ession	ider all the	
Colours Choo High	nse the colour depth n Colour (15 bit) nnection bar when 1	of the remote	session. reen		
Hide Options			Connect	Help	>

Click the General tab and click the Save button to save these settings.

#### and click Connect

You will be prompted to enter the username and password to connect to your Institute desktop:

Windows Security		×
Enter your credentials		
These credentials will be used to	connect to localhost.	
User name		
Password		
Remember me		
ОК	Cancel	

Enter the username and password you have enabled for Remote connections. If prompted with a verification prompt:

## 🎭 Remote Desktop Connection × The identity of the remote computer cannot be verified. Do you want to connect anyway? The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed. Certificate name Name in the certificate from the remote computer: Certificate errors The following errors were encountered while validating the remote computer's certificate: The certificate is not from a trusted certifying authority. Do you want to connect despite these certificate errors? Don't ask me again for connections to this computer View certificate .. Yes No

Tick the **Don't ask me again for connections to this computer** and click on yes.

The Institute Windows desktop will be displayed as a window on your local machine:



To close the connection click the X on the top right of the window displaying the Institute desktop.

When you have finished your remote session to your Institute desktop it is essential that you exit the ssh gateway by typing exit:

Last login: Wed Mar 11 11:52:29 on ttys000 [Immproeth0:~ lcm\$ ssh lynne@sshgw.imm.ox.ac.uk -L 5901:129.67.56.124:5900 [lynne@sshgw.imm.ox.ac.uk's password: Last login: Wed Mar 11 14:42:55 2020 from lmmproeth0.imm.ox.ac.uk [[lynne@sshgw ~]\$ exit logout Connection to sshgw.imm.ox.ac.uk closed. lmmproeth0:~ lcm\$

### To connect from remote (home) Macintosh to an Institute Windows Desktop

#### **On Institute Windows Desktops**

Follow steps in **On your Institute Windows Desktop** above.

#### **On your Home Macintosh**

Download the Microsoft Remote Desktop client from the Mac App Store:

https://itunes.apple.com/app/microsoft-remote-desktop/id1295203466?mt=12

Open Terminal window (\Applications\Utilities) and type the following command

ssh SSO\_username@sshgw.imm.ox.ac.uk -L 3391:IP\_Address\_WIMM\_Windows\_PC:3389



Open Microsoft Remote Desktop

Enter the computer address as

localhost:3391

Next to User Account select Add a User Account from the drop-down menu:

0 🔴 🔴		Microsoft R	emote Desktop		
	* • + •	PCs	Workspaces	Q Search	
mbam	Add a User Acco	unt			
	Username	User@Dom	ain or Domain\User		
	Password	:			
		Show pa	ssword		
	Friendly name	: Optional			
ccure.i					
			Cancel	Add	-
	Gateway:	No gateway		\$	-
		Bypass for	local addresses		

Enter username (not password) for account set to permit remote connections:



Go to **Display** tab set screen options as below:

Edit PC			
PC name:	localhost:3	3391	
User account:	pcadmin		0
General	Display	Devices & Audio	Folders
Resolution:	Default fo	or this display	
Color quality:	Medium ( Optimize Only rece 10, Wind Vindows	16 bit)	ions to Windows Iter. <b>2n on resize</b> to Windows 8.1, Iter.
		Ca	ncel Save

## Click **Add** button. Double-click on the localhost desktop:



## You will be prompted for the password for the Windows account:

000		
Conn	Enter Your User Account	
localr	This user account will be used to connect to localhost:3391 (remote PC).	
Secur	Username: pcadmin	
	Password:	cel
	Show password	
	Cancel	

Enter the password.

You may be prompted to accept a certificate



Trust the certificate and click **Continue**. The Windows desktop will then open on your Macintosh Desktop.

When you have finished your remote session to your Institute desktop it is essential that you exit the ssh gateway by typing exit:

