

Virtual Analysis Computers (VMs)

Quick-start Guide

Location: Remote

(Updated: 10/2/2021)

Connection Software: Remote Desktop



<complex-block>

THE UNIVERSITY

Available Computers

- Cupid (384GB RAM, 1x P4000 GPU) [IMB-Cupid.imb.uq.edu.au]
- Hercules (1TB Ram, 3x V100 GPUs) [IMB-Hercules.imb.uq.edu.au]
- Lucifer (1TB RAM, 3x V100 GPUs) [IMB-Lucifer.imb.uq.edu.au]
- Saturn (1.5TB RAM, 3x V100 GPUs) [IMB-Saturn.imb.uq.edu.au]

Available Software: Amira*, Arivis Vision 4D**, Arivis SIS Converter**, FIJI, FlimFit, Handbrake, Huygens**, Imaris, Imaris Stitcher, Imaris Converter, LAS X**, Microvolution***, NIS-Elements, NIS-Viewer, SBConverter, Slidebook, TeraStitcher, VLC, Zen Blue, Zen Black

*Access to Amira VM at QBI, **Available on Saturn VM only, ***Available from within FIJI

Local Cache Storage: These computers have a minimum of 4TB local scratch space. This is not backed-up and all users can delete data on this drive to make space as required.

Connecting to VMs Remotely

If you are working from home, or off-site (from IMB) or via WiFI, you will need to connect to the UQ-VPN (Virtual Private Network) before connecting to the VM computers. To do this you will need the Cisco AnyConnect VPN software and an IMB associated UQ-SSO account.

| | 🕥 Cisco AnyC | onnect Secure Mobility Client | | - | | × |
|---|--------------|--|---|----|-----------|-----|
| ٩ | | VPN: Connected to vpn.uq.edu.au. vpn.uq.edu.au | ~ | Di | isconnect | |
| | 02:07:35 | | | | 1 | Pv4 |
| | 0 | | | | | |

Address: vpn.uq.edu.au

Credentials: UQ-SSO

Connecting to Network attached Storage

- $\circ~$ Data you generate on this device should be backed up to a server for future retrieval and use.
- The IMB has access to a number of servers both internally managed, as well as UQ-wide resources, think carefully where you would like to store your data.
 - IMB Transfers
 - Not backed up
 - Deleted every 7 days
 - <u>\\transfers.imb.uq.edu.au</u>

o UQ RDM

- Project based shared drive
- Can be cached locally (<u>\\data.imb.uq.edu.au</u>)
- For more information see <u>rdm.uq.edu.au</u>
- All IMB Cached RDMs are linked via <u>\\uq.edu.au\uq-inst-gateway2</u>
- Note this uses UQ-SSO credentials (type uq\username)

Notes on Remote Computing

When you book a system via PPMS you can normally arrive at the microscope and if someone is using it (without a booking) you can ask them to leave. This isn't possible with the Remote VMs, instead we have a new program that monitors bookings in PPMS and will force log you out without a booking.

The tool also allows you to extend you booking by 60minutes (if no one else has booked after you), send you email reminders before your session ends, and logout directly.

Connecting to the VMs using Mac OS

Using Self Service download and install Microsoft Remote Desktop 8

Or

Login to the apple store with your private account and download the latest version

Add a PC using the Plus "+" button Or Type Command+N

Enter the PC Name: one of the following (only add the ones that appear in PPMS)

IMB-Cupid.imb.uq.edu.au IMB-Hercules.imb.uq.edu.au IMB-Lucifer.imb.uq.edu.au IMB-Saturn.imb.uq.edu.au

User Account: Add User Account User Name: UQ Username Password: UQ password Friendly name: UQ

Tick the "Show More" button

General Tab

Friendly Name: Name of the PC you entered above, Example: Hercules Gateway: Leave empty

Group: you can put the computers into different groups if you like by clicking on the Group dropdown and selecting "Add Group"



| ••• | Microsoft Re | mote Desktop | |
|-------------------|--------------|---------------|---------------------|
| * • + • | PCs | Workspaces | Q Search |
| PC Name | User Account | Gateway | Date Last Connected |
| | | | |
| Add PC | | | |
| PC name: | MB-Hercules | .imb.uq.edu.a | 4 |
| User account 🗸 | Ask when rec | uired | |
| Conoral | | | |
| General | | | |
| Friendly name: | | | |
| Group | | | |
| | Add User Acc | count | |
| Gateway: | No gateway | | |
| | | | |
| | | | |
| Add - 11 A | | | |
| Add a User Accour | IC | | |
| Username: | uqjbloggs | | |
| Password: | ••••• | | |
| | Show pass | sword | |
| Friendly name: | uq | | |
| | | | |
| | | Cano | cel Add |

| Add PC | | | | |
|----------------|---|--|--|--|
| PC name: | IMB-Hercules.imb.uq.edu.au | | | |
| User account: | ບດ ᅌ | | | |
| General | Display Devices & Audio Folders | | | |
| | | | | |
| Friendly name: | Hercules | | | |
| Group: | Analysis Servers | | | |
| Gateway: | No gateway | | | |
| | Reconnect if the connection is dropped Connect to an admin session Swap mouse buttons | | | |
| | Cancel | | | |

Display Tab

Untick "use all monitors" Untick "Start session in full screen" Tick "Update the remote session resolution on resize" Color Quality: High (32bit)

Sound Tab

Tick "Clipboard"





Folders Tab

Choose a folder to use on your computer that will also appear on the remote PC, so that you can move files back and forth Tick "Printers" Tick "Clipboard"

Click Save Click on the newly created PC Icon to connect

Don't Forget to Log off the Server when you're finished, by double clicking the "VM Logoff" button on the desktop, or by Clicking on the Start button in the bottom left of the screen, clicking on the Person icon and then clicking "Sign Out".







Connecting to VMs using Windows

Click on the Start button at the lower left of the screen and start typing "Remote Desktop Connection".

The Application will appear in the list, click on it to open the software.

Enter the PC Name: one of the following

IMB-Cupid.imb.uq.edu.au IMB-Hercules.imb.uq.edu.au IMB-Lucifer.imb.uq.edu.au IMB-Saturn.imb.uq.edu.au

Click on the "Show Options" button in the lower left corner of the window

Enter your IMB username: UQ username Tick the "Allow me to save credentials" tickbox Click the "Save" button

Display Tab

Adjust the slider as required, leave it at Large, unless you have a slow internet connection.

| | Best match | | | | |
|---------|---|--|--|--|--|
| ŵ | Remote Desktop Connection Desktop app | | | | |
| | Apps > | | | | |
| | Remote Desktop Licensing Diagnoser | | | | |
| | Settings > | | | | |
| | System | | | | |
| | Access RemoteApp and desktops | | | | |
| | Allow Remote Assistance invitations to be sent from this computer | | | | |
| | Invite someone to connect to your PC and help you, or offer to help someone else | | | | |
| | Select users who can use remote desktop | | | | |
| | RemoteApp and Desktop Connections | | | | |
| | Allow remote access to your computer | | | | |
| | | | | | |
| <u></u> | | | | | |
| | remote | | | | |
| - | A 🗆 🥃 📄 | | | | |

| ₽5 Remote Desktop Connection - □ > | | | | | | \times |
|---|---------------------------------|--------------|------------------|-----------|-----------|----------|
| Remote Desktop Connection | | | | | | |
| General [|)isplay Local F | Resources | Experience | Advanced | ł | |
| | Enter the name | e of the ren | note computer | | | |
| 2 | Computer: | IMB-Herc | ules.imb.uq.ed | lu.au | ~ |] |
| | User name: | uqjbloggs | | | | |
| You will be asked for credentials when you connect. | | | | | | |
| Allow me to save credentials | | | | | | |
| Connectio | n settings | | | | | |
| | Save the curre saved connect | nt connect | tion settings to | an RDP fi | e or open | а |
| | Save | | Save As | | Open | |
| | | | | | | |
| Alide Op | tions | | | Connect | He | lp |
| | | | | | | |
| Nemote | Desktop Conn | ection | | - | | × |
| | Remote | Deskt | ор | | | |

| Display configuration Choose the size of your remote desktop. Drag the side way to the right to use the full screen. Smal Large | r all the |
|---|-----------|
| Choose the size of your remote desktop. Drag the slide way to the right to use the full screen. Small Large | r all the |
| Small Large | |
| | |
| Full Screen | |
| Use all my monitors for the remote session | |
| Colors | |
| Choose the color depth of the remote session. | |
| Highest Quality (32 bit) | |
| | |

Institute for Molecular Bioscience

Local Resources Tab

Tick Printers and Clipboard

| 4 | Rer Co | note Desk nnectio | top n | | | |
|------------|-----------------|--------------------------------------|------------------|---------------|----------|--|
| General D | isplay | Local Resources | Experience | Advanced | | |
| Remote au | udio Conf | igure remote audio Settings | settings. | | | |
| Keyboard | Appl | y Windows key con | nbinations: | | | |
| Ŷ | Only Exan | v when using the fu nple: ALT+TAB | Il screen | ` | - | |
| Local devi | ices an Choo | d resources ose the devices and | d resources that | at you want t | o use in | |
| 20 | your | remote session. rinters | Clipb | oard | | |

| 2 |] Smart cards | ^ |
|-----|---|---|
| | Ports | |
| | Drives | |
| _ | Local Disk (C:) | |
| | Cache (D:) | |
| | Microscopy (\imbshare imb un edu au) (Y:) | |
| | Objective (A) objective induced and (1) (7) | |
| | Drives that Lalva in later | |
| m F | Chores that I plug in later | |
| • | Other supported Plug and Play (PnP) devices | ~ |

General Display Local Resources Experience Advanced

Choose your connection speed to optimize performance Detect connection quality automatically Connection quality-dependent features: Desktop background Font smoothing Desktop composition Show window contents while dragging Menu and window animation Visual styles

Performance

Persistent bitmap caching Reconnect if the connection is dropped

Hide Options

| ction Quality Automatically | |
|-----------------------------|--|
| | |

| Exp | eri | ien | ce | Tal | b |
|-----|-----|-----|----|-----|---|
| | | | | | |

Tick "Drives"

remote server

Click the "More" Button

Detection Conne

Select the Drives or folders you'd like to share with the

Advanced Tab

If server authentication fails: "Connect and Don't Warn Me"



Connect Help

Click "Connect" button

| Hide Options | Connect | Help |
|--------------|---------|------|

Type your UQ password Make sure "Remember me" is ticked

Click "OK" button to connect to the Server

| Windows Security × | | | | | |
|--|--------|--|--|--|--|
| Enter your credentials | | | | | |
| These credentials will be used to connect to IMB- Hercules.imb.uq.edu.au. | | | | | |
| uqjbloggs | | | | | |
| Password | | | | | |
| Remember me | | | | | |
| More choices | | | | | |
| OK | Cancel | | | | |

If you see this message, Tick "Don't ask me again ..." Click Yes

Don't Forget to Log off the Server when you're finished, by double clicking the "VM Logoff" button on the desktop, or by Clicking on the Start button in the bottom left of the screen, clicking on the Person icon and then

clicking "Sign Out".





