SOFTWARE DEFINED NETWORKS

iQuila Cloud
Guide to Setting up a Bridge in Windows

IQ22071r6

This Document Applies to:

iQuila Cloud

Contents

iQuila cloud guide to setting up a bridge in windows.

Introduction:

The iQuila Cloud Bridge software is an advanced AI-driven application that can bridge your entire network to the iQuila Cloud Layer2 virtual switch, this advanced software can be used in several different scenarios. This document will provide instructions on installing and setting up the Bridge software, you will be required to have a good understanding of Layer 2 networking.

Please use this software with great caution, incorrect use of this software could expose your network or cause network Loops.

(Please take care not to cause a Layer 2 loop).

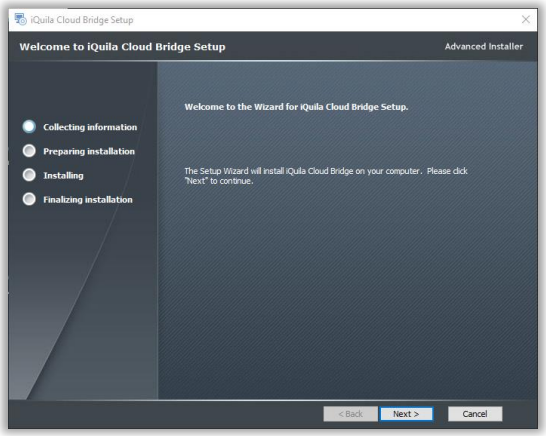
Prerequisites

Create a Bridge Device on your iQuila Cloud account. An email will be sent to you if you enter an email address, otherwise you can download the iQuila Windows Bridging software here or via the iQuila Cloud Portal next to your device and save it to the Windows Server or Windows PC that you would be installing the bridging software on.

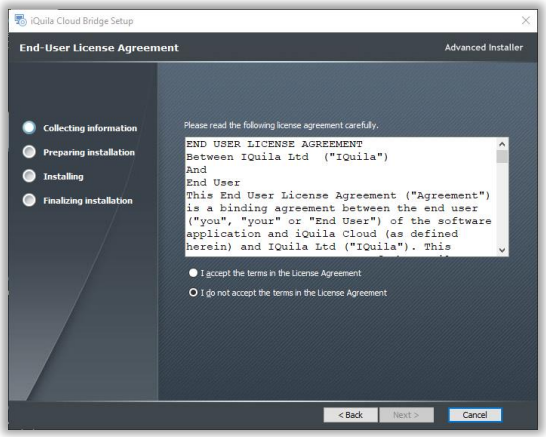
(Please note, this software should not be installed on laptops or tablet devices).

Installing iQuila Bridge:

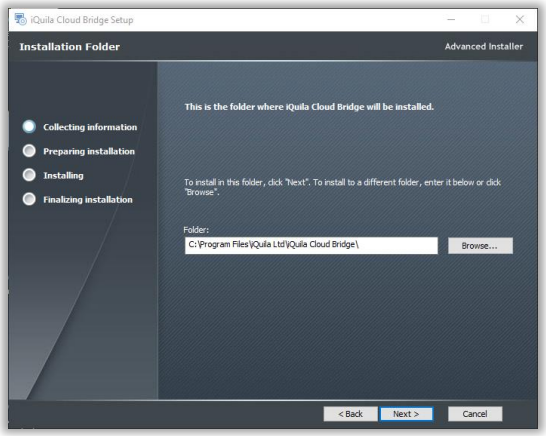
Install the iQuila Bridging software by launching the application from the email link or from the file you downloaded from the Cloud Portal.



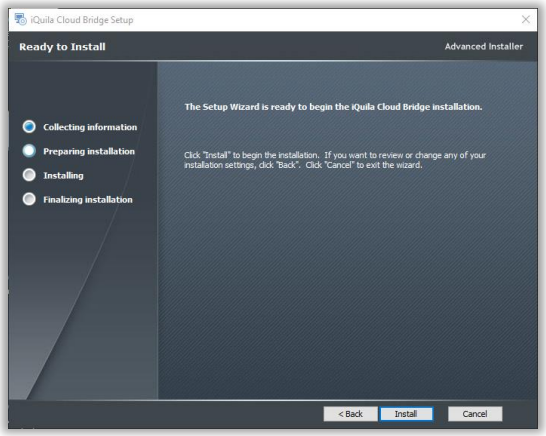
Accept the License Agreement.



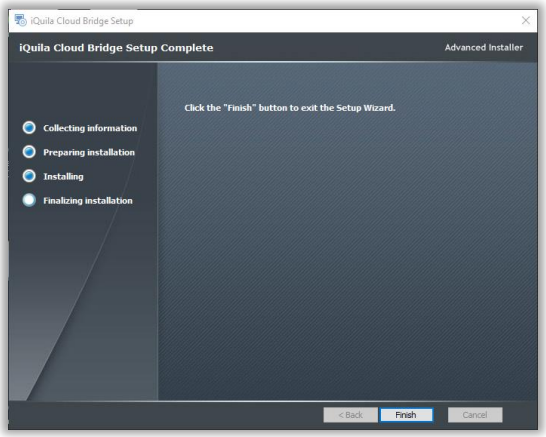
You may change the install path of the application, but we would recommend this is left to the default path.



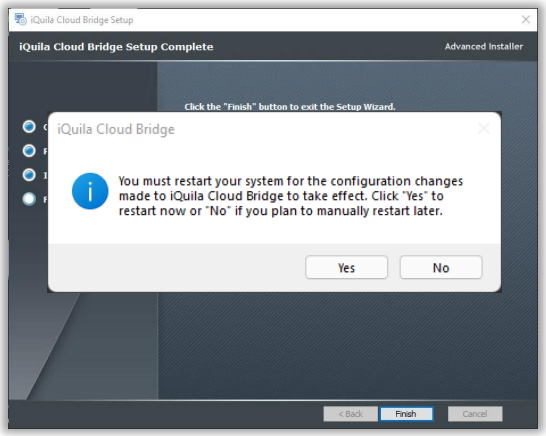
Once the wizard is ready, proceed with the install.



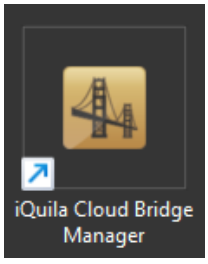
Click finish.



You must restart your system for configurations to take effect. This is mandatory for the software to function correctly.



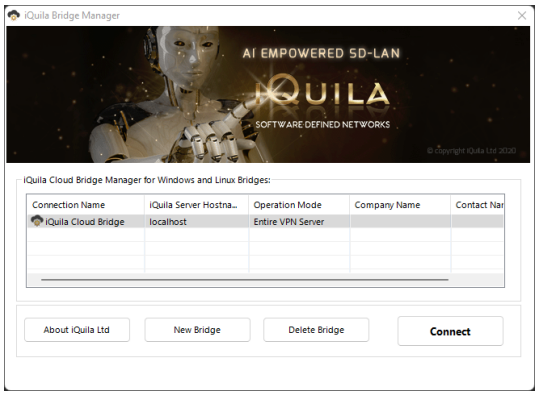
To launch the iQuila Bridge application click on the iQuila Bridge Manager icon that has been placed on your desktop. This will launch the iQuila Cloud Bridge Manager.



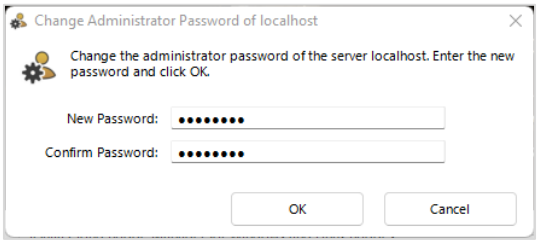
iQuila Cloud Bridge Manager.

Click Connect

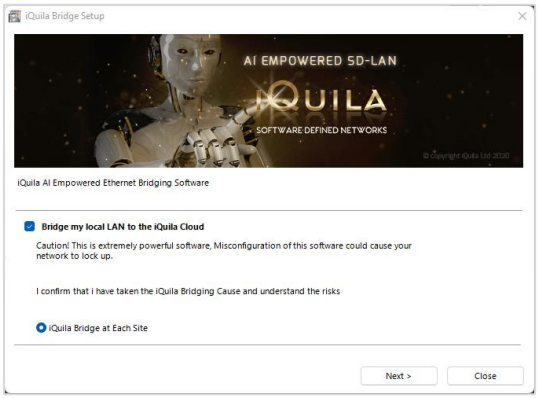
Please note if for some reason there is no entry here you will need to add a Bridge. Go to the section below in this document labelled
Adding a Bridge.



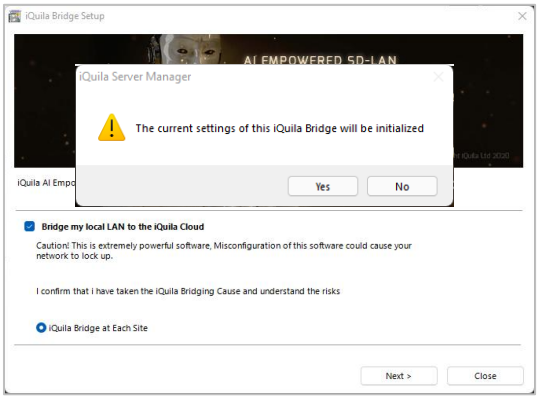
The system will ask you to create a new password. Enter a new password in the password box and click OK.



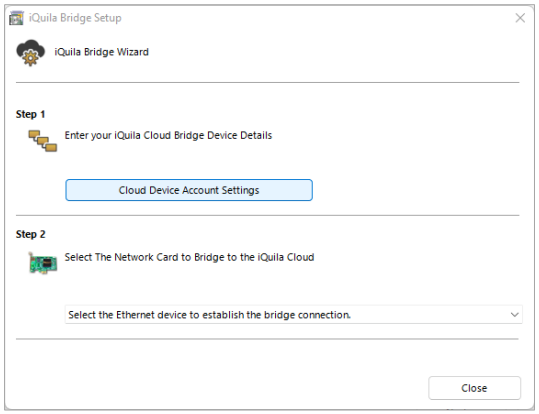
You will be prompted with a statement asking you to confirm that you have had training and understand how Layer 2 networking works. If you understand Layer 2 networking, please proceed. Alternatively, please contact iQuila Support.



The wizard will ask for confirmation to use the current settings. Click Yes.



iQuila Bridge Wizard Step 1



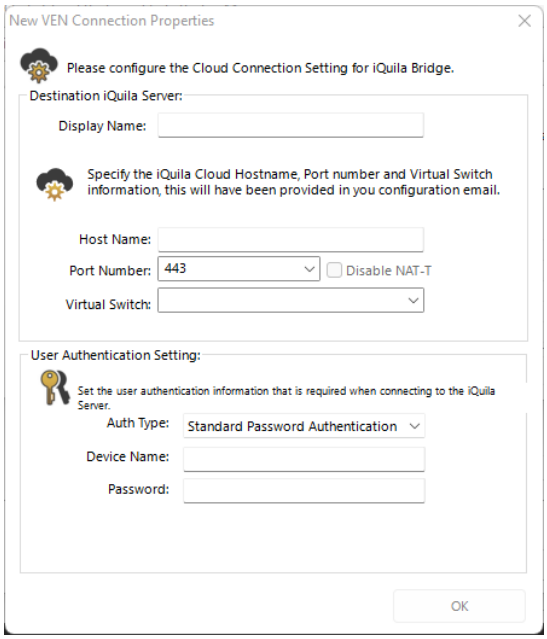
Entering the iQuila Cloud Bridge Account details.

Select Cloud Account Setup.

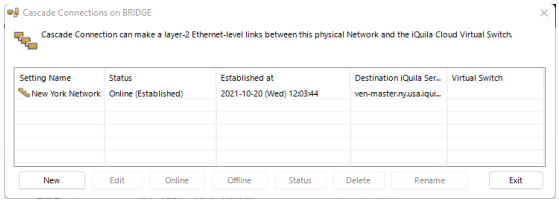
Note: Details required here are in the email sent when the Bridge device was created.

Cloud Account Setup

Display name:
Enter a name for your Cloud Device. E.g Device name or location
Host Name:
This is the Hostname of the iQuila Cloud server you are connecting to. This will be shown in the email that was sent when you created your device on the iQuila Portal.
Port Number:
Please leave this as 443 unless directed otherwise by iQuila support.
Virtual Switch:
The name of the virtual Switch that your Bridge device resides on.
Device Name:
The iQuila Bridge Device Name.
Password:
The password you created for the device.
Proxy setting:
If you are connecting via a Proxy server, please enter the correct Proxy information
Click OK.

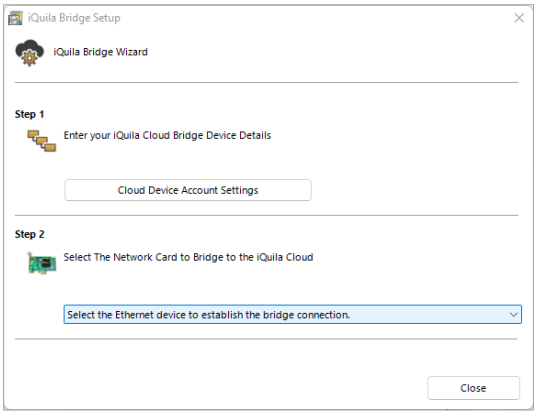


The new connection will show online.
Click Exit.



iQuila Bridge Wizard Step 2

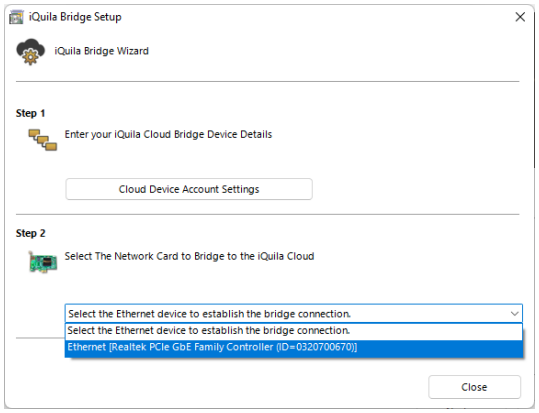
Select the Network Card to Bridge to the iQuila Cloud.



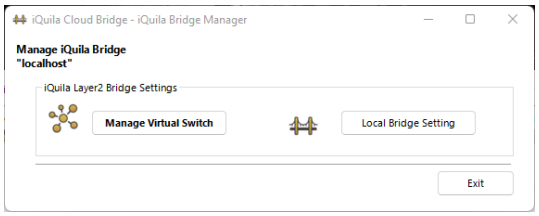
Select the dropdown and select the Network adaptor you would like to Bridge.
Once selected, click Close. This will now bridge your network to the iQuila Cloud Switch.

Click Close.

(All traffic that is located on this network adaptor will now be bridged.)

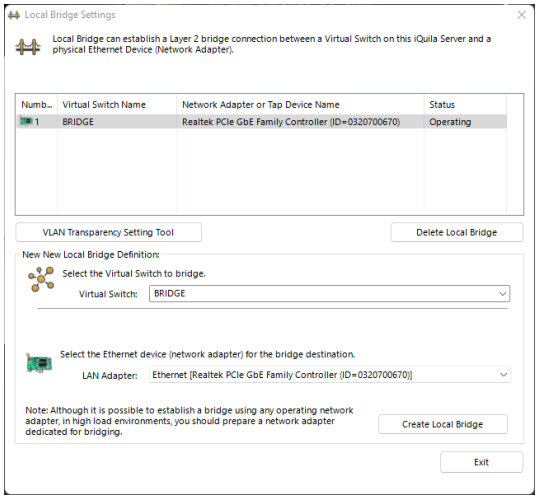


To check your Bridge connection select Local Bridge Settings.



The status of the Bridge is showing Operating.

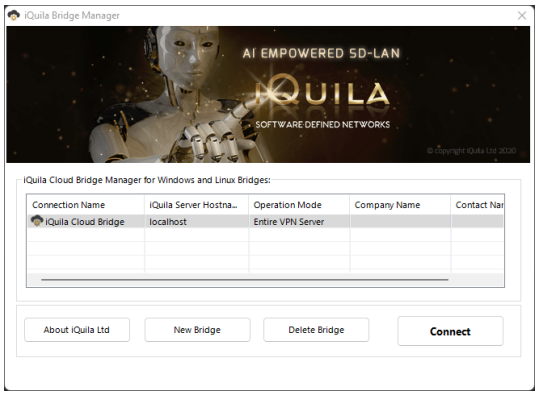
Select Exit twice to close.



Adding a Bridge.

Add New Bridge allows you setup another Bridge connection.

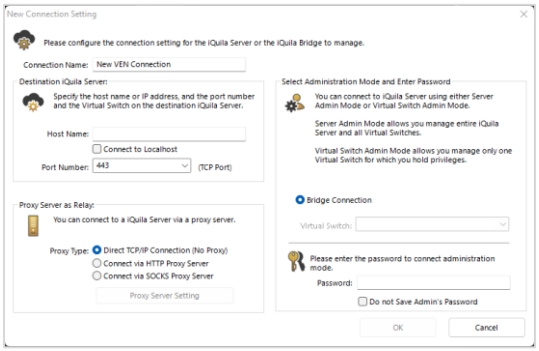
Please contact an iQuila Support if required for extra support on this option.



Note if for some reason entry was blank when you first opened the iQuila Cloud Bridge Manager.

Click Add New Bridge.

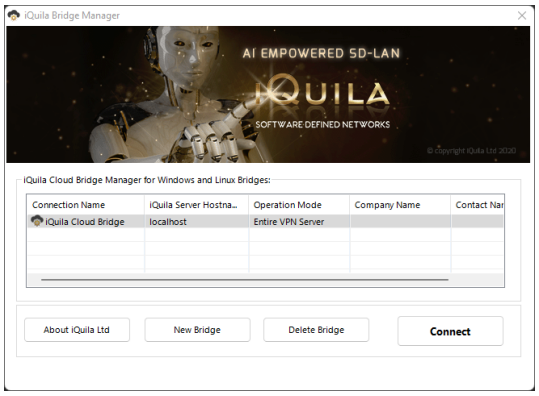
Enter a Connection name. e.g. Network or Location.
Enter Host Name found on the email.
Tick Connect to Localhost
Leave Port as 443
Enter Password
Click OK.



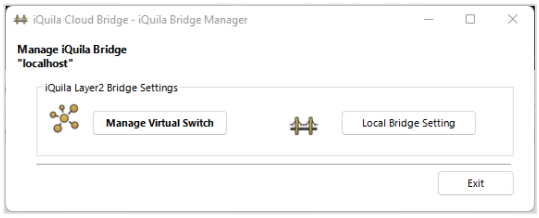
Viewing Active Sessions on the network.

Launch the iQuila Bridge Manager.

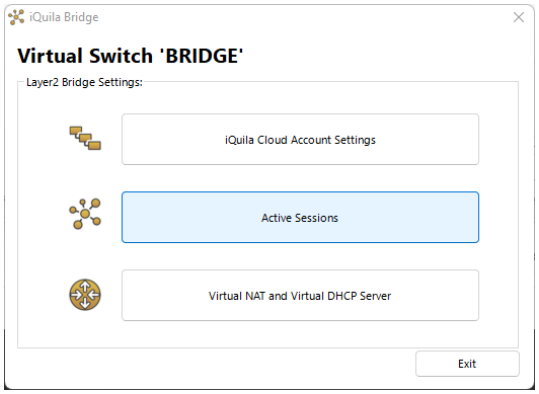
Click Connect.



Select Manage Virtual Switch.

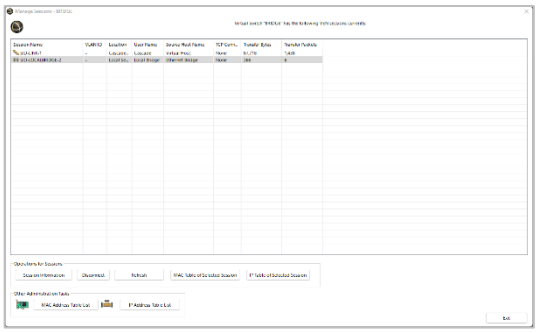


Select Active Sessions.



The Sessions Manager window will be displayed. This will show all active sessions on the remote network and local bridge.

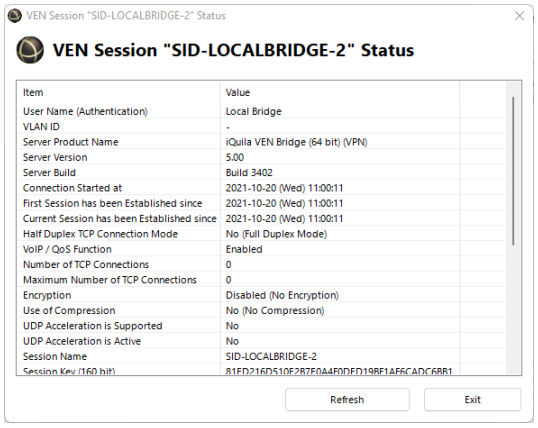
There are a number of functions at the bottom that are now covered in the next sections.



In the Operations for Session area:

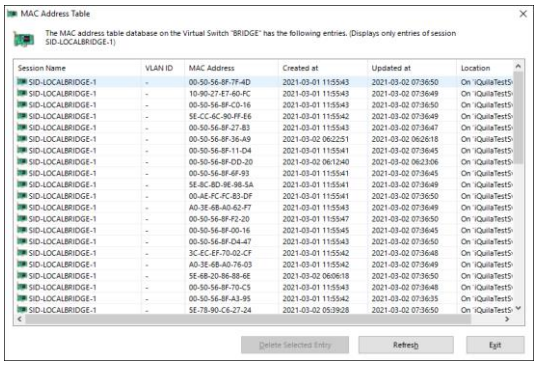
Session Information:

Double click the SID-LocalBridge-# opens detailed information on the currently selected session.



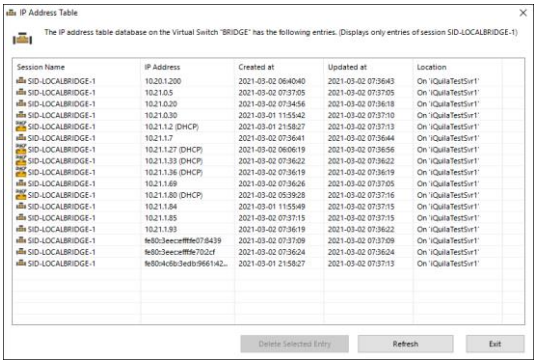
MAC Table of Selected Session:

Displays of all MAC addresses on the local bridge.



IP Table of the selected session:

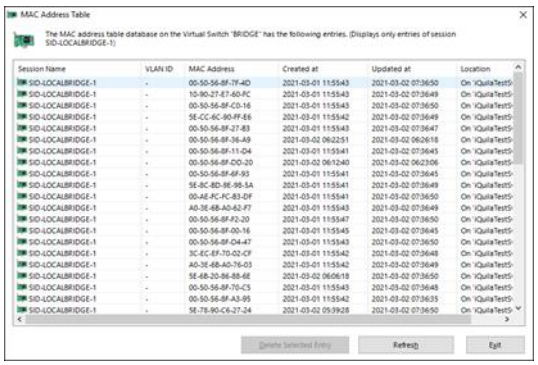
Displays all IP addresses on the local bridge.



Other Administration Tasks area:

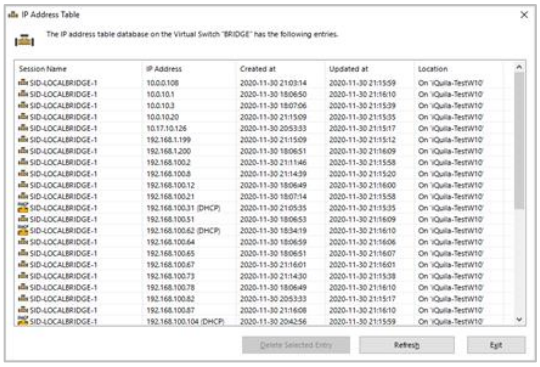
MAC Address Table List:

Displays all MAC addresses on the local database. This will be all the MAC addresses the iQuila Bridge software can see across the complete network.



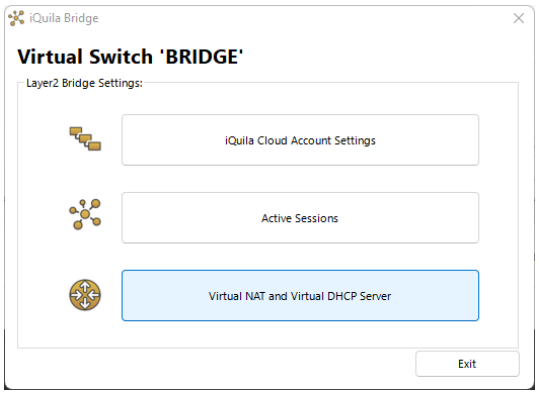
IP address Table:

Displays all IP addresses on the local database. This will be all the IP addresses the iQuila Bridge software can see across the complete network.

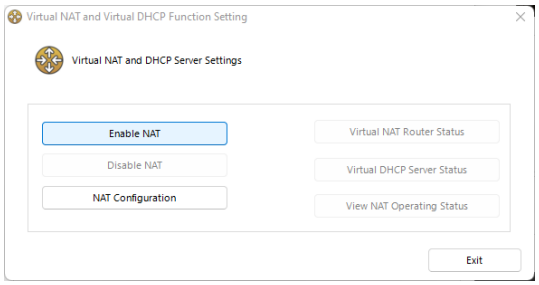


Running Virtual NAT and DHCP:

Select Virtual NAT and Virtual DHCP server.

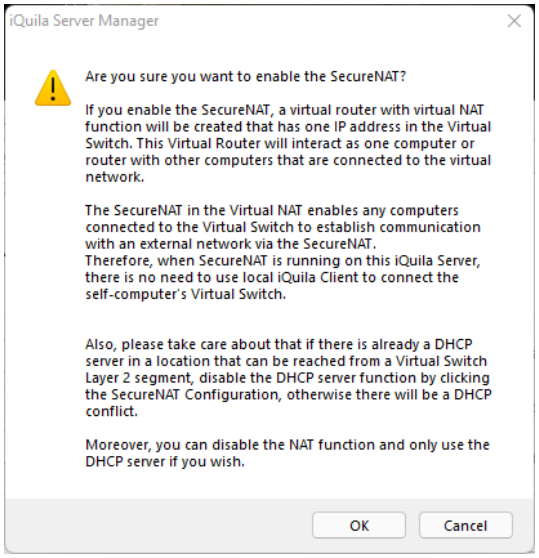


Select Enable NAT to turn NAT on.

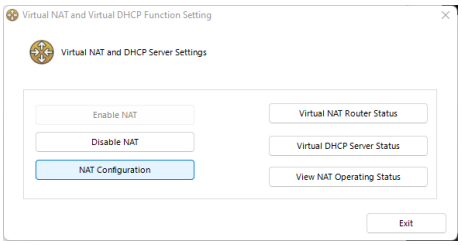


Please read as an understanding of what NAT can do is required from this point.

Click OK to Enable NAT.

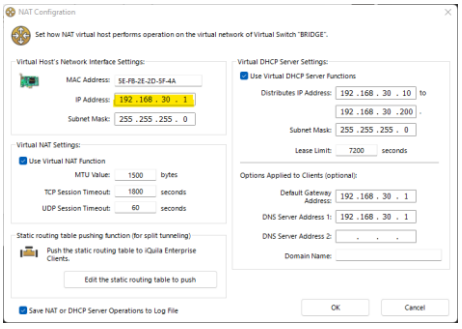


Select configure NAT to setup a custom NAT configuration.

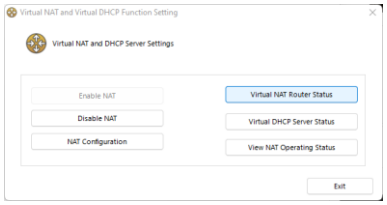


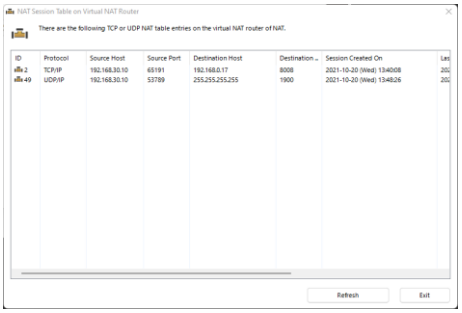
The IP Address highlighted would become the default Gateway Address of your bridge connection.

Click OK to close.

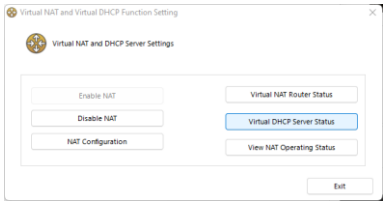


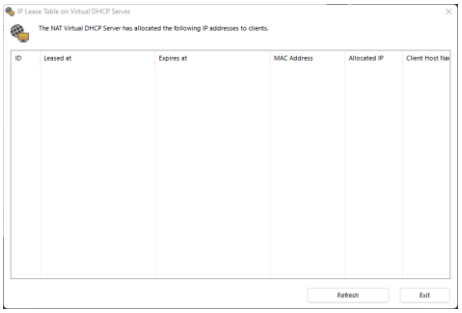
Status information can be found with the following options: Virtual NAT Router Status.





Virtual DHCP Server Status.





View NAT Operating status.