Connecting to Diamond's Linux computers remotely

Installing the up-to-date version of NoMachine

Some users are unable to connect to i14 workstations because they do not have installed the up-to-date version of NoMachine. Therefore, the remote desktop software should be updated/downloaded from:

https://www.nomachine.com/download

Once installed, "Add" a new connection (blue rectangle in the screenshot below). This will open a new window, in which the Host would be 'nx.diamond.ac.uk', being the NX the protocol in the right-hand side menu. To finalise the connection, click "Add" at the top-right corner (red rectangle below).

Machines NDMAL O Add O Edit @ Connect @ Search	o ×	a NoMachine
O Add □ Edit ⊇ Connect	OMACHINE	Machines
	Settings	O Add Connect Search View Order
< Add connection NOMAGE	MACHINE	Add connection
Address Machine address Name, host, port and Configuration Authentication and m Direct connection name> Direct connection over the Internet. Give a name and save the settings for your connection. Name Host nx.diamond.ac.uk Port 4000 Protocol NX •	O Add	Address Name, host, port and Configuration Authentication and m Machine address Info Model, OS and produ Image: Configuration over the Internet. Give a name and save the settings for your connection. Sive a name and save the settings for your connection. Name Host mx.diamond.ac.uk



Then, double click the 'Connection to nx.diamond.ac.uk' to start the connection:

-		- 0 ×
Machines		NOMACHINE
O Add D Edit Connect	Q Search	🗰 View 🛛 🐼 Order 💁 Settings
Connection to nxdiamond.ac.uk, Linux o NX	Connection to Connection to Connection to Source Connection to Connection to Source diamond.a inx-user.diamond.ac.uk, Linux o NX Linux o NX Linux o NX	

And you should add your FedID + your password (if you click 'save this password in the connection file' you will not be asked again the next time you connect):

MoMachine - Connection to nx.diamond.ac.uk	— 🗇 🗡
Connection to nx.diamond.ac.uk	NOMACHINE
Please type your username and password to login as a system user.	
Username	
Password	
Save this password in the conn	ection file
	Cancel OK

Subsequently, select 'create a new virtual desktop':

III NoMachine - Connection	to nx.diamond.ac.uk				_	o ×
 Connection to 	nx.diamond.ac.uk					ACHINE
🗳 My desktops 🗖 No	ew desktop	Q Find a type			III View	s Order
X	Δ	1	Ve			
Create a new custom session	Create a new virtual desktop	Create a new RDP virtual desktop	Create a new VNC virtual desktop			
			<c< td=""><td>onnect to an existing desktop></td><td></td><td></td></c<>	onnect to an existing desktop>		
Save this setting in the setting	connection file					

At this point, you should see the option to connect to an already created 'i14-ws002' node. If this workstation does not appear automatically, you could type i14-sw002 into the "Find a node" tab at the top of the screen. Finally, click "connect":



Ensuring that you are connected to i14-ws002

In the top-left corner, click in the red hat symbol, and then select the "terminal" option:



When the terminal appears, you should read your [FedID @ i14-ws002 ~] as shown in the screenshot below (again, changing ws005 by ws002 in this case).



If you see ["your FedID"@csXXr-sc-serv-XX ~]\$, that means that you are connected to a virtual session, and NOT to the i14-ws002 computer. Therefore, you need to log-off from this session (switch-off bottom at the top-right corner, later select "Log Out", see below).

Then repeat the search for the 'i14-ws002' in the "ssh.diamond.ac.uk" connection.



Once it pops out, please type the two command-lines below to automatically setup the User's desktop:

cd /dls_sw/i14/ops/user_setup/

./setup_user.sh

View Search Terminal Help

'@cs05r-sc-serv-08 ~]\$ cd /dls_sw/il4/ops/user_setup/ '@cs05r-sc-serv-08 user_setup]\$./setup_user.sh

If no icons are shown in the desktop after submitting the previous command, there is some further display options to modify. To do this, type "**gnome-tweaks**" on a new terminal, which will open a window with several options. In the "Desktop" tab, please select the 'Show Icons' option to be ON (red circle, image below):

Q Tweaks	Desktop x
Appearance	Icons on Desktop
Desktop	Show Icons
Extensions	Home
Fonts	Network Servers OFF
Keyboard & Mouse	Mounted Volumes ON
Power	
Sound	
Startup Applications	
Top Bar	
Windows	
Workspaces	

In the 'Extensions' tab also, please ensure that the Window List, the Workspace buttons and the Workspace grid are all ON. There is further tweaking to do by selecting each one of the individual metallic wheels marked with a red-square in the image below:

Q Tweaks	Extensions ON ×
Appearance	Move clock to left of status menu button OFF
Desktop	Launch new instance
Extensions	Aways darch a new instance when cacking in the dash of the application view.
Fonts	No topleft hot corner Disable the hot corner in the top left; you can still reach the overview by clicking the activities
Keyboard & Mouse	button or pressing the dedicated key.
Power	Systemmonitor System monitor showing cpu and memory usage in the message tray. OFF
Sound	
Startup Applications	User themes Load shell themes from user directory.
Top Bar	
Windows	Window list Display a window list at the bottom of the screen.
Workspaces	Workspace buttons Display a group of workspace indicator buttons on the panel providing the ability to switch between workspaces and access a list of windows on a given workspace alon
	Workspace grid Arranges workspaces in a configurable grid.

Selecting "Click to activate workspaces" in the workspace buttons.

	Workspa	ace Buttons	×
Settings	Workspace Label Format	Workspace Label Color	rs
Position Se	ttings ion to put the buttons in		Right 👻
Change th	' ne index for the buttons positio	'n	OFF
Specify po General Set	osition index :tings		1 – +
Wrap arou	und when scrolling over the wo	orkspace bar	OFF
Click to a One button	tivate workspaces will activate, the other will open the	menu	ON
Button to	activate workspaces		Primary 💌

Finally, please select 4 workspaces as rows in the "Workspace Grid" option, as shown below:

Workspace Grid		×
NOTE: Please set Workspace Creation to Static. Also, note that the m workspaces is 36.	aximum r	number of
Number of rows of workspaces:	1	- +
Number of columns of workspaces:	4	- +
Relative (to current row) workspace switching?		OFF
Wraparound workspaces when navigating?		OFF
and wrap to the same row/col (as opposed to the next/previous)?		OFF
wrap to same also for mouse scrolling?		OFF
Show workspace labels in the switcher?	ON	
Scroll Direction:	Horizo	ontal 👻
The following settings determine how much horizontal space the w in the overview can take up, as a fraction of the screen width.	vorkspac	es box
Maximum width (fraction):		0.70
Maximum width (fraction) before collapse:	0.30)

Changing the displaying options/Ending the connection

Just click in the top right corner, where a bending corner appears:

uick Acce	ss	e	🛄 Data	aVis 📃	Mapping	PyD	ev 🕸 D	ebug	Proce	ssing 🗄	Ptych	nogra	phy
% L	<u>e</u> •	× •	112	a, 🥎 [6	~ ~		в			~	-	

Furthermore, in the display options, you can re-size your session to match your screen resolution:

Input Devices Display Audio Mc in Recording Connection	e to	k on the items below or clic	he menu panel				
<click a="" connect="" device="" here="" to=""></click>		Input Devi	Display	Audio	Mic in	Recording	Connectio
Done		lick here to connect a device					
Done							
Done							
Done							
Done							
							Done

Finally, for closing the session, select the connection option from the menu, and later disconnect from the server (last screenshot below).

Note that if you close the NoMachine program without disconnecting from your session, you could connect again to your "open session" again later in the day.

