

NoMachine setup

Oxford Biomedical Data Science Training Programme

Install NoMachine

- Copy the following file from `/ifs/obds-training/apr20/shared` to your local computer
 - Mac users – `nomachine_5.3.12_10.dmg`
 - Windows users – `nomachine_5.3.12_5.exe`
- Install the application

Setting up tunnel to cgath1 on NoMachine

New connection NOMACHINE

Protocol > Host > Authentication > Proxy > Save as

Select the protocol to use to connect to the remote computer.

 Protocol **SSH**

All protocols use cryptography to protect your communication. NX is the native protocol used by NoMachine and is optimized for multimedia data. SSH is an industry standard for accessing computing resources from external networks.

Back **Continue**

Setting up tunnel to cgath1 on NoMachine

New connection NOMACHINE

Protocol > Host > Authentication > Proxy > Save as

Insert the hostname or IP and port where you want to connect.

 Host Port

The port was chosen automatically based on the default for the protocol. If the remote computer was configured to listen on a different port, please insert it above.



Setting up tunnel to cgath1 on NoMachine

New connection NOMACHINE

Protocol > Host > Authentication > Proxy > Save as

How do you want to authenticate on the host?

 Use the system login
This is the default. Choose this method to use your system password, key-based authentication or another authentication method supported by SSH.

 Use the NoMachine login
Use a server-specific RSA or DSA key and a password. Choose this method if the server is older than version 4 or if you need to use advanced features like guest logins.

[Back](#) [Continue](#)



Setting up tunnel to cgath1 on NoMachine

New connection NOMACHINE

Protocol > Host > **Authentication** > Proxy > Save as



Choose if you want to connect using the default key or with new RSA or DSA key generated for this server.

Use an alternate server key
/Users/lucy/Desktop/cgat150.key ...

Load the RSA or DSA key used to connect to this server.

Copy cgat150.key to your local computer from
`/ifs/obds-training/apr20/shared/week1`

Back Continue

Setting up tunnel to cgath1 on NoMachine

New connection NOMACHINE

Protocol > Host > Authentication > Proxy > Save as

Use a HTTP proxy for the network connection.

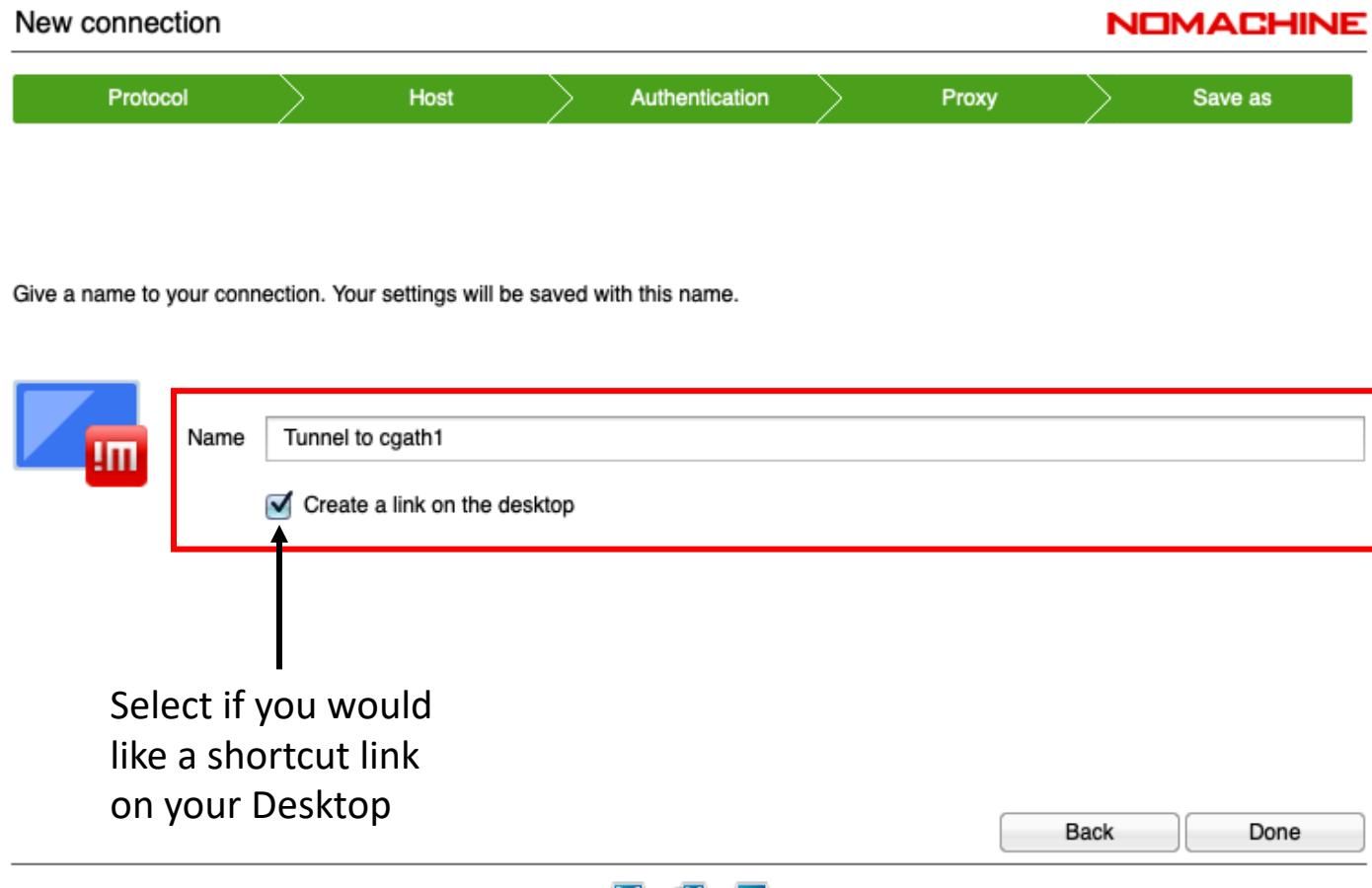
 Don't use a proxy
Choose this if you are connecting to a computer on your same LAN or if you are on a residential broadband connection.

 Connect using a HTTP proxy
Use a proxy if you are connecting to a computer outside your LAN from a corporate network where external access is protected by a firewall.

[Back](#) [Continue](#)

Cancel | Next >

Setting up tunnel to cgath1 on NoMachine



Connecting to cgath1

Type the following in your local terminal:

```
ssh -L 2222:cgath1:22 <username>@cgatui.imm.ox.ac.uk
```

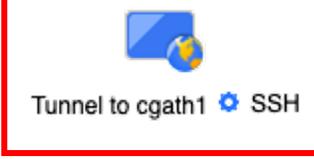
(e.g. ssh -L 2222:cgath1:22 lucy@cgatui.imm.ox.ac.uk)

Connecting to cgath1

Recent connections

NOMACHINE

View Sort Find a user or a desktop New Open Edit Settings

 Tunnel to cgath1 SSH

 Connection to klyn.molbiol.ox.ac.uk SSH

 Connection to deva.molbiol.ox.ac.uk SSH

Click on the connection to cgath1 in NoMachine

 Connect



Connecting to cgath1

Tunnel to cgath1

NOMACHINE

 View  Sort  Find a type  My desktops  New desktop

 Create a new GNOME virtual desktop

 Create a new KDE virtual desktop

 Create a new XDM virtual desktop

 Create a new VNC virtual desktop

 Create a new RDP virtual desktop

 Create a new CDE virtual desktop

 Create a new custom session

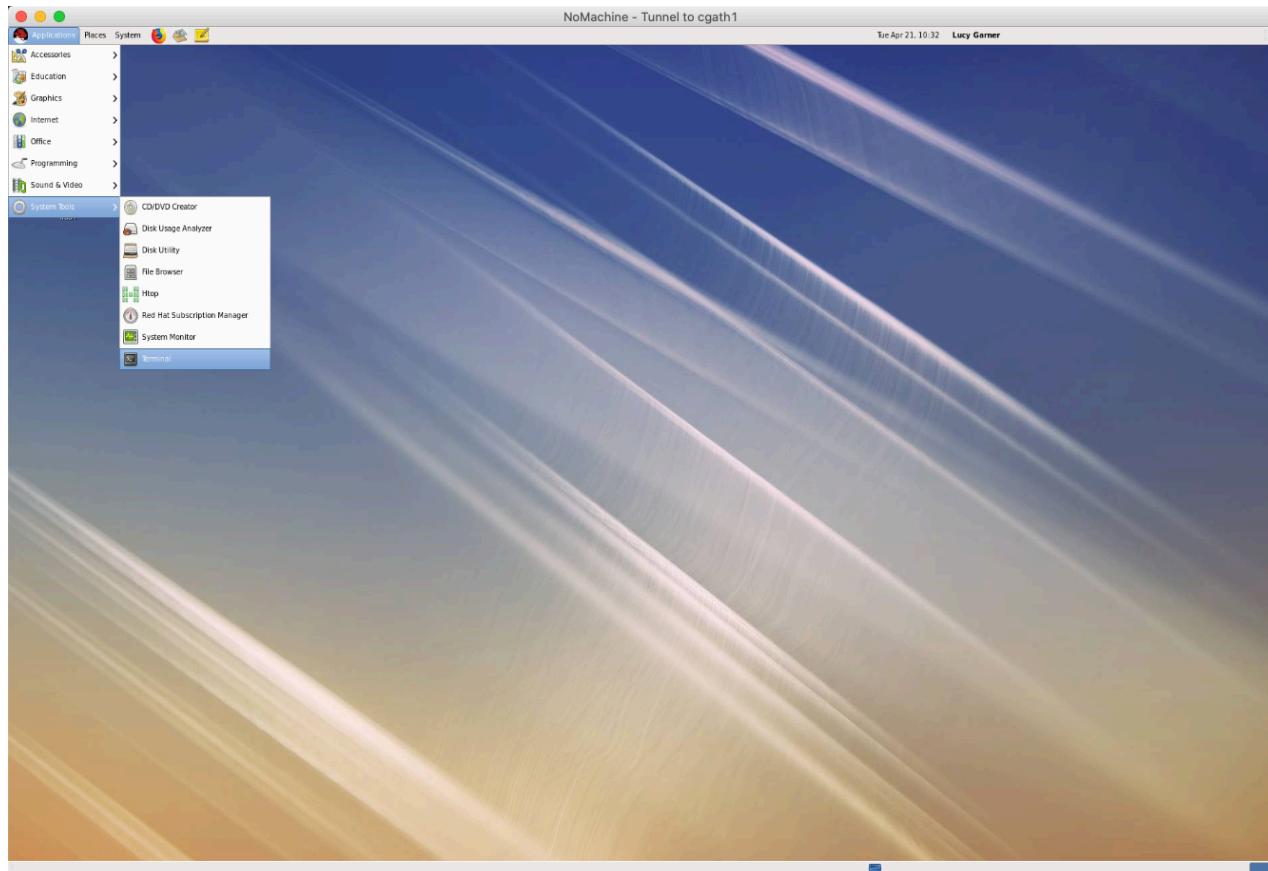
Save this setting in the connection file

 Back  Continue



Connecting to cgath1

Applications → System Tools → Terminal



.ssh/config

```
Host nx
hostname cgath1
User <username>
ExitOnForwardFailure yes
ServerAliveInterval 300
ServerAliveCountMax 2
RequestTTY no
ProxyCommand ssh <username>@cgatui.imm.ox.ac.uk nc %h %p
LocalForward localhost:2222 localhost:22
```

If you add the above to your `~/.ssh/config` file, you will only need to type
`ssh nx` in your local terminal (instead of `ssh -L 2222:cgath1:22 <username>@cgatui.imm.ox.ac.uk`)