

**University of Minnesota**  
**Center for Magnetic Resonance Research**  
**Standard Operating Procedure**

## C104-05 - Connecting Macs to CMRR servers with VNC

Mac Finder supports VNC sessions to CMRR servers

### Connect using terminal ssh

Open a terminal window (Finder -> Applications -> Utilities -> Terminal)

ssh [userid@range1.cmrr.umn.edu](mailto:user@range1.cmrr.umn.edu)

Login with your CMRR password

### Start a vncserver session

This will run a desktop session in the memory of the server.

vncserver

set a password (I usually recommend the same as your CMRR password)

(This will give you a desktop number, e.g. range1.cmrr.umn.edu:23)

exit

You can close the terminal window - you only need it to start the session

### Connect using Finder

This will open a graphical desktop on the server.

Finder -> Go -> Connect to Server

Server address:

Enter your desktop number + 5900 (e.g. vnc://range1.cmrr.umn.edu:5923)

Give your VNC password

Your desktop should open up in a window. You can now start programs

To leave, just close the window (do not choose log out from the menu)

The programs will continue to run in the memory of the server.

You only need to start a session once, you can close and open it multiple times.

If the server is rebooted, your session will end and you will need to start another one.

### Killing a VNC session

Log into the server with terminal ssh as above

Use the desktop number for your session

ps -fu userid

vncserver -kill :23

## Changing your vnc password

Start terminal ssh and connect as above

```
cd .vnc
```

```
mv passwd passwd.bak
```

```
vncserver
```

This will start a new session (e.g. range1.cmrr.umn.edu:24) and prompt you for a new password

Kill the new, unneeded session (e.g. vncserver -kill :24)

```
exit
```

## Updating your xstartup / Using XFCE

XFCE works better than Gnome/KDE on Centos and RHEL7. To update your xstartup and to start using XFCE, do the following:

Start putty and connect as above

```
cd .vnc
```

```
cp /opt/local/bin/xstartup.vnc xstartup
```

**Purpose**

**Scope**

**Definitions**

**Responsibility**

**References**

**Forms / Templates**

**Appendices / Tables**

**Revision History**

SOP Number / Version:	C104-05 / 1.2
Approval Date:	07/21/2015
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Author/Owner:	Brian Hanna / John Strupp

Version Number	Approval Date	Change from Previous Version
1.0	7/08/2015	
1.1	7/21/2015	Standard formatting
1.2	10/13/2015	Corrected server address vnc://xxx:59xx
1.3	3/29/2019	Added XFCE and updating xstartup

<b>Approval Signatures</b>	<b>Date</b>
Author/Owner:	
Regulatory Compliance Coordinator:	

Center Director:	
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