How to set up the bastion host to login into the Sonic Cluster - Windows

Please ensure you have an account on the bastion host and Sonic to complete these steps.

To get an account on the Bastion Host, please log in to <u>www.ucd.ie/ithelp</u>, and click "Get Help", and request access to the Bastion Host using the form.

To get access the the Sonic HPC, log in to <u>www.ucd.ie/ithelp</u>, click "Request Something", and search for "New HPC Account Request" in the "Research IT" category.

To connect to Sonic via the Bastion Host:

1) Download and install Putty

2) Fill out the setting as below with hostname as resit-ssh.ucd.ie and UCD Sonic Tunnel into Saved

Sessions

∃ Session	Basic options for your PuT	TY session
└── Logging ⊡- Terminal └── Keyboard	 Specify the destination you want to Host Name (or IP address) 	Port
Bell	resit-ssh.ucd.ie	22
⊟ Window	Connection type: C Raw C Telnet C Rlogin G	SSH C Serial
Appearance Behaviour Translation	 Load, save or delete a stored session Saved Sessions 	n
Selection	UCD Sonic Transfer	_
Colours	Default Settings	Load
Data		Save
- Telnet Blogin		Delete
⊞-SSH L-Serial	Close window on exit C Always C Never C Dnly on clean exit	

- 3) In the left-hand navigation tree, click Connection > SSH > Tunnels. Enter the port that you want to connect to locally (this can be any high number port you want e.g 9880) under "Source port"
- 4) In the "Destination" field enter login.ucd.ie:9880 or whatever port number you used in step 3

5) Click Add

tegory:		
- Bell 🔺	Options controlling SSH connections	
Features Features Features Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Kex Cipher EAuth TTY Y11	Data to send to the server Remote command: [ssh login.ucd.ie] Protocol options Don't start a shell or command at all Enable compression Preferred SSH protocol version:	
	C 1 only C 1 C 2 © 2 only Sharing an SSH connection between PuTTY tools Share SSH connections if possible Permitted roles in a shared connection: Upstream (connecting to the real server) Downstream (connecting to the upstream PuTTY)	
-X11 -Tunnels -Bugs -More bugs		

6) To make this session automatically log into Sonic . On the left-hand navigation select Connections > SSH. Under "Remote command" enter SSH login.ucd.ie

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🖃 Session	Basic options for your PuTTY se	ession
E Terminal	 Specify the destination you want to connect Host Name (or IP address) 	Port
Bell	resit-ssh.ucd.ie	22
Features	Connection type: C Raw C Telnet C Riogin © SS	H C Serial
Appearance Behaviour Translation	Load, save or delete a stored session Saved Sessions	2
Selection	UCD Sonic Transfer	
Colours	Default Settings	Load
Data		Save
Telnet Rlogin ⊡ SSH Serial		Delete
	Close window on exit. C Always C Never C Only on a	clean exit

- 7) On left hand navigation to back to the top and select "Session ". Click "Save" to ensure you don't need to enter all these details every time you log in and then Click "Open"
- 8) This brings you first to the login screen for resit-ssh and once you enter your UCD Connect credentials it drops you to login.ucd.ie where you again enter your UCD Connect credentials
- 9) Now you are on the sonic cluster. In further you can just open putty select UCD Sonic tunnel select load and you go straight to step 8

Transferring Data in and out of Sonic through the Bastion Host using WinSCP

- 1) <u>WinSCP</u> is the tool we recommend for transferring data to and from Sonic for Windows users.
- 2) Create a new connection to the Sonic cluster using your <u>connectusername@login.ucd.ie</u> (sonic.ucd.ie will also work for connections to the Sonic as they resolve to the same IP address)

Pew Site Connect_Username@login.ucd.ie	Session File protocol:	
	Host name:	Port number:
	login.ucd.ie	22
	User name:	Password:
	Connect_Username	
	Edit	Advanced

3) Click **Edit** on the connection once it has been saved and go to the **Tunnel** menu. Add the below setting:

Hostname: resit-ssh.ucd.ie

Username: your Connect username

Port number: 22

Environment Directories Recycle bin	Connect through SSH tunnel Host to setup tunnel on	Port oumber:
Encryption SFTP	resit-ssh.ucd.ie	22 🚔
Shell Connection Proxy	User name: Pas Connect_Username	sword:
SSH Key exchange Authentication Bugs Note	Tunnel options Local tunnel port: Tunnel authentication parameters	Autoselect 🗸 🗸

- 4) Hit **OK** and save the changes to your connection.
- 5) Hit **Login**, you should then be prompted for your **Connect password** for resit-ssh.ucd.ie, once that has been enter you should then be prompted for you Sonic password (also you **Connect password**). Once enter it can take a few seconds to connect.