# Introduction to the CSF

# Practical session 3: File transfer

## <u>Overview</u>

We are going to:

- 1. Download a file from the CSF to our PC
- 2. Upload a file from our PC to the CSF

For more information on transferring files to/from the CSF, please see: <u>https://ri.itservices.manchester.ac.uk/csf3/filesystems/file-transfer/</u>

### Downloading an output file from the job run in exercise 2

Please follow the instructions appropriate to your operating system:

- Windows Users: You can do this in three different ways (try at least #1):
  - Windows users (option 1): Drag-n-drop in MobaXterm: When you logged in to the CSF in your MobaXterm window, it will display your remote *home* directory used on the CSF (see diagram below – the files on the CSF are displayed in the panel on the left hand side).

	*	٩	×4	*			Ý	<b>*</b> *	1	**	?	X	ଜ
sion	Servers	Tools	Games	Sessions	View	Split	MultiExec	Tunneling	Packages	Settings	Help	X server	Exi
iick (	connect	i			🔨 3. c	sf3.itserv	ices.manch	ester.ac.uk	×				
t	± 🕇 🔇	) 🛼 🗋	8 🔨	A									
/mnt	/iusers01/si	upport/	1	$\sim$					Welcome	to CSF3	3		
•	Name			^							fo (		
	£			Help	: <u>nttps</u> : its-r	<u>://rı.</u> i-team	<u>itservic</u> @manches	<u>ces.manc</u> ster.ac.	<u>uk</u> uk	ac.uk/cs	st3/getting-s	started	
	.alces												
	.ansible			=====									===
	.apptain	er					*** REM	INDER:	Scratch	Tidy Ir	n Operation	***	
1	.aspera			Domi	adar th	- <b>t</b>	atab aar	mat ha	used fo	- 1	torm storage	Files not used	
	.cache			(not	read o	r writ	ten by y	not be vou or v	vour iob	s) for 3	3 months or	longer will be	
	.ctx .chainer			remo	ved. Ho	wever,	please	note th	atify	ou have	recent jobs	reading very old	
	.checkm			data	sets, t	hose d	latasets	WILL NO	)T be de	leted.			
	.chimera	a					111	You ma	y have	files at	t risk !!!		
	.cmake				Use you	r CSF	'home' d	lir or R	DS for	keeping	important f	iles long term.	
	.comput	ell3d_py3				ines	e areas	are bac	жеа up.	Scrattr	1 IS NUT DACH	ked up.	
	.comsol	_old_17347	'1										
	.conda			Jan	2023: N	ew - c	heck you	ir scrat followi	ch usag	e (space	e consumed an	nd number of files	)
	.conda.	csf3			U.	y runn	ring the	TOLLOW	ing comm		the togen not	ie. scrusage	
	.conda.	old		4046									
	.continu	um		web-	June ∠ proxv.	023: D Theref	ore, use	ers will	. NOT be	able to	o access exte	ernal websites.	
	.cpan			repo	sitorie	s etc.	via the	e web-pr	oxy. If	externa	al access is	required, please	
	.cpan-ig	nore2		use	a batch	job o na thi	r intera	active s	ession	on a cor	mpute node (\	/ia qrsh.) For mor	е
	.cpanm			http	s://ri.	itserv	ices.mar	nchester	.ac.uk/	csf3/bat	tch/grsh/		
	.cst-wor	'kdir D											
	.cupy	2			Aug 20	 22• Al	1 200000		atch an	d pns (	isilon) stor	an has been	
	.cytosca	ape		rest	ored an	d batc	h jobs a	are runn	ing nor	mally. F	lease check	the outputs of	
	.dart			any	recent	jobs t	o énsure	e they c	omplete	d as ́exp	pected.		
	.dbus			~									
<	dcm?nii		>	6th	Sept 20	23: sc	ratch pe	erforman	nce issu	es have	been resolve	ed.	
	Follow	termina	l folder				F	lease r	ead all	notices	above ====		
									and arec				
	-												

If you don't see the panel on the left hand side, please ensure you connected to the CSF by creating a "Session" (See practical 1.) If it's still not appearing, press the Settings icon in MobaXterm, then go to the SSH tab, then ensure the "Automatically switch sidebar view to show the graphical SFTP browser" is ticked. Restart MobaXterm if you change this setting. Alternatively, feel free to ask for help.

You can simply drag-n-drop files from from the CSF by dropping them from this panel in the MobaXterm window to your PC desktop (or into a folder of your choice in the windows explorer). Give it a try to transfer your myjob.o123456 file. You will need to navigate to the folder in which it is contained – training then RCSF then examples.

 Windows users (option 2): If on the training PCs (on-campus classroom based), run WinSCP from the Start Menu (> All programs). This is another graphical drag-n-drop file transfer program.

If using your own laptop, you can download this for free (see slides for the link and instructions.)

Follow the instructions at:

https://ri.itservices.manchester.ac.uk/csf3/filesystems/filetransfer/windows/#WinSCP

to first connect WinSCP to the CSF then drag your myjob.0123456 file from the right hand pane (the CSF) to the left hand pane (your PC)

 Windows users (option 3 - Advanced): Use the scp command to do a linux style transfer from the CSF to your PC as follows:

First, open a new tab in MobaXTerm by pressing the small symbol just next to the black tab you've already got open and logged in to the CSF. This will give you another terminal window on your local PC.

In the new tab run 1s to *list* the files in the current directory. Now move to a folder on your PC:

cd MyDocuments (if that doesn't work try cd /drives/p on the training PCs or University laptops)

(cd is the linux command for change directory).

Run 1s again to list the files.

Now transfer your output file from the CSF with this command:

scp username@csf3.itservices.manchester.ac.uk:~/training/RCSF/examples/myjob.o123456 .

(notice the full stop '.' at the end of the line)

• Linux and MacOS users: Open a new shell/terminal on your PC. Now run the scp command in the new terminal to transfer the file to the CSF by running:

scp username@csf3.itservices.manchester.ac.uk:~/training/RCSF/examples/myjob.o123456 .

(notice the full stop '.' at the end of the line)

(replace *myjob.o123456* with whatever your output file is called, replace *username* with your central IT username and enter your *central IT password* when asked). Note: there is a **dot at the end of the above line**. This is important – don't forget the . (it means the myjob.o*123456* will be copied into

your *current* directory on your PC.)

### Upload a file to the CSF

- Everyone: You should now have transferred your output file from the CSF to your PC. You should be able to see a view it using your preferred methods. Rename the file on your PC/laptop to be called myresults.txt and now upload it back to the CSF. This should essentially be a case of doing the reverse of what you did for the download.
  - Windows users: use the MobaXterm or Winscp drag and drop as before. If you tried option 3 the advanced scp then follow the Linux and MacOS instructions below:
  - Linux and MacOS Users: Run this command in the terminal on your PC (not the one connected to the CSF):

scp myresults.txt username@csf3.itservices.manchester.ac.uk:~/training/RCSF/examples/

(replace *username* with your central IT username and enter your *central IT password* when asked). This will copy the file from your PC in to the training course examples directory on the CSF. Once the file has transferred, check it is there on the CSF.