

Canterbury Maps guide to downloading LiDAR from Microsoft Azure Storage Explorer

- 1. Download and install Microsoft Azure Storage Explorer: <u>https://azure.microsoft.com/en-us/features/storage-explorer/</u>
- 2. In Microsoft Azure Storage Explorer, expand the 'Local & Attached' option in the menu on the left-hand side.



3. Right click 'Storage Account's and click 'Connect to Azure storage'.





4. Choose to connect to a 'Blob Container'.

🚵 Connect to Azure Storage	×
Select Resource	
Select Resource > Authenticate > Connect	
What kind of Azure resource do you want to connect to?	
Subscription Sign in to Azure to access storage resources such as blobs, files, queues, and tables under subscriptions you have access to.	>
Storage account or service Attach to one or more services in a Storage account.	>
Blob container Attach to an individual Blob container.	>
ADLS Gen2 container or directory Attach to an individual ADLS Gen2 container or directory.	>
Attach to an individual File share.	>
Attach to an individual queue.	>
Table Attach to an individual table.	>
Local storage emulator Attach to resources managed by a storage emulator running on your local machine.	>
	Cancel

5. Choose the 'Shared access signature (SAS)' option and click Next.





6. Paste the below SAS URL into the 'URL' box. The display name will then be auto populated like below. Then click Next.

SAS URL: https://pgflidartestsa.blob.core.windows.net/data-transfer-public?sv=2020-04-08&si=data-transfer-public&sr=c&sig=VPJ4ea44hzlCXR7mXslIJ921rrjkoKFO%2FQ0sPohCP48%3D

Connect to Azure Storage	×
Enter Connection Info	
Select Resource > Select Connection Method > Enter Connection Info > Summary	
Display name:	
data-transfer-public	
Blob container SAS URL:	
https://pgflidartestsa.blob.core.windows.net/data-transfer-public?sv=2020-04-08&si=data-transfer- public&sr=c&sig=VPJ4ea44hzICXR7mXsIIJ921rrjkoKFO%2FQ0sPohCP48%3D	

7. You'll now get a summary screen, click Connect.

🚡 Connect to Azu	ire Storage	×	
Summar	у		
Select Resource	> Select Connection Method > Enter Connection Info > Summary		
-			
The following	ng settings will be used to connect to your resource:		
Display name:	data-transfer-public		
Resource name:	data-transfer-public		
Blob endpoint:	https://pgflidartestsa.blob.core.windows.net		
SAS:	sv=2020-04-08&si=data-transfer-public&sr=c&sig=VPJ4ea44hzICXR7mXsIIJ921rrjkoKFO%2FQ0sPohCP48%3D		
Resource type:	Container		
Permissions:	(unknown)		
I Make sure you only connect to resources you trust.			
4			
	But Crust Crust		
	Back Connect Cancel		



8. You'll now see a 'data-transfer (SAS)' container appear under 'Blob Containers'. Click on this.



9. Before you start transferring data, there is an additional setting that needs to be configured to control the number of files that get concurrently uploaded. This is to ensure the IO doesn't get maxed out when uploaded lots of large files.

In Storage Explorer, go to Edit – Settings.





10. Click Transfers.

📑 Micro	osoft Azure Storage Explorer						
<u>File Edit View H</u> elp							
·:=	EXPLORER		🖪 data-transfer-public 🛛 🗙	Settings ×			
8	Search for resources Collapse All	× $ ho$ Refresh All	Application Data Explorers	Application			
Ϋ́	≇n≱ Quick Access ⊿ 🔗 Local & Attached		Services Transfers	Appearance			
ŝ	 Storage Accounts (Attached Containers) 			Theme			
	🔺 🛅 Blob Containers			Light (default) 🗸			
	🧮 data-transfer-public (SAS)						
	👂 🚬 File Shares			Dress			
	Queues			РГОХУ			
	Tables			Proxy configuration			
	 Emulator - Default Ports) (Key) 			Select how Storage Explorer determines the proxy configuration.			

11. Scroll down to 'File Concurrency' and enter a value such as 10 as a start and see how that goes.

File Concurrency	
Overrides the (approximate) nu hits the maximum open file lim	imber of files that are in progress at any time, by controlling how many files AzCopy concurrently initiates transfers for. Consider changing this value if AzCopy it of your local OS. Valid inout values are positive whole numbers.
10	

12. Now you can transfer your files. In the right-hand side panel, you can either drag a drop the folder containing the survey data or use the Upload option at the top. The copying progress will be visible in the Activity bar along the bottom.

You should see the below folders which relate to the LiDAR datasets in Canterbury Maps. Inside each file you will be able to find the related metadata and/or read me which is a good place to start if you are struggling to understand the dataset.

Note: the NZAM_10027_2010 folder includes NZAM 10027 Ashburton, NZAM 10027 Timaru Town and Coast and NZAM 10027 Selwyn.

You may also need to use a system proxy under settings if the files are not showing due to potential internal internet filtering.

If you need help, please email info@canterburymaps.govt.nz

