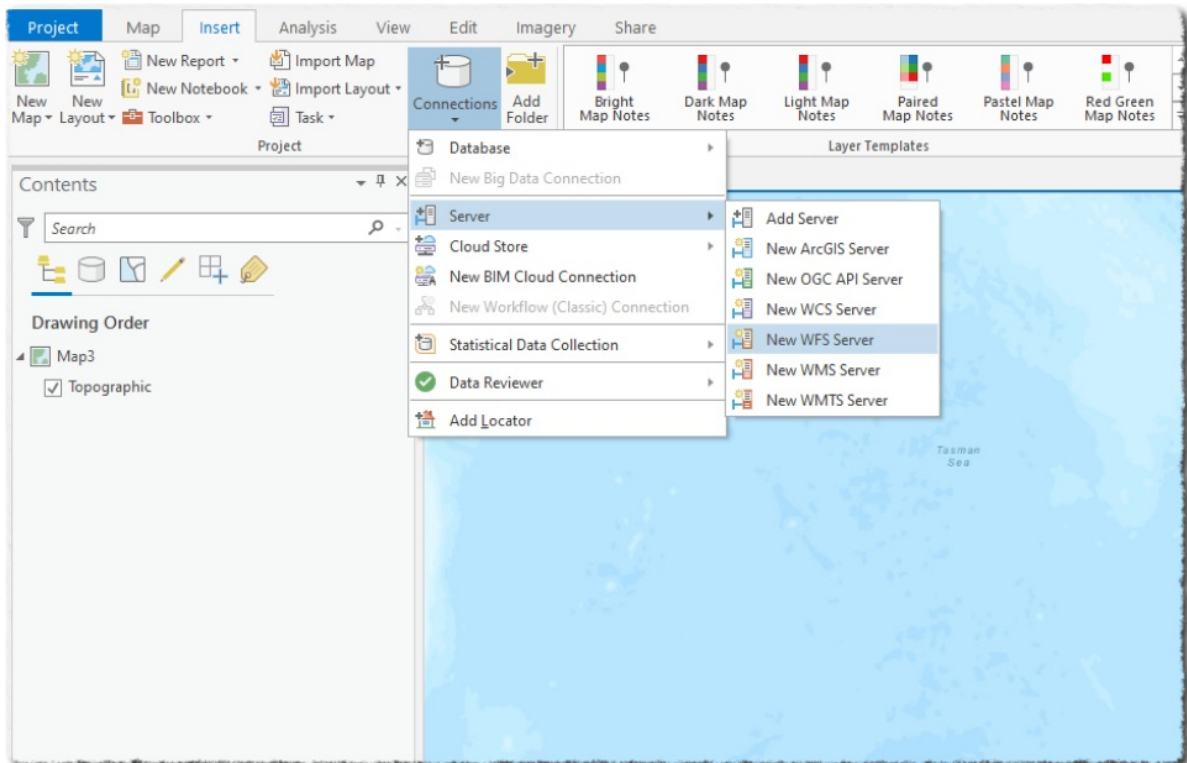


# Accessing the Rappt.io map feeds with ArcGIS

## Accessing layers

1. You can add a new WFS Server via Connections > Server > New WFS Server:

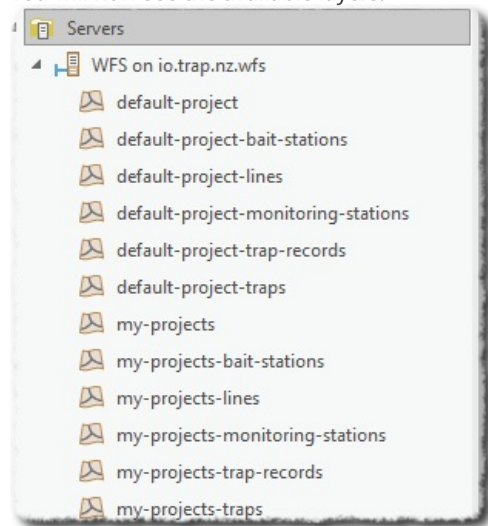


2. Enter the WFS URL in the format as [described here](#)  
`https://io.rappt.io/geo/trapnz-projects/wfs/apikey/project_id`
3. The WFS server is set to return a maximum of 10k features per request. Therefore you must set a page size value smaller than that. We suggest 5k to begin with. Add a custom request parameter of PAGESIZE, with a value of 5000
4. Leave the Authentication options blank (we are using the API key to control access)

A screenshot of the 'Add WFS Server Connection' dialog box in ArcGIS. The 'Server URL' field contains the URL 'https://io.trap.nz/geo/trapnz-projects/wfs/'. Below it, 'Examples' are provided. The 'Version' is set to 'Default version'. Under 'Custom request parameters', a table shows 'PAGESIZE' with a value of '5000'. At the bottom, there are fields for 'User Name' and 'Password', and two radio buttons for authentication: 'Save Username / Password to Windows Credential Manager' (selected) and 'Save Username / Password to connection file'. 'OK' and 'Cancel' buttons are at the bottom right.

Parameter	Value
PAGESIZE	5000

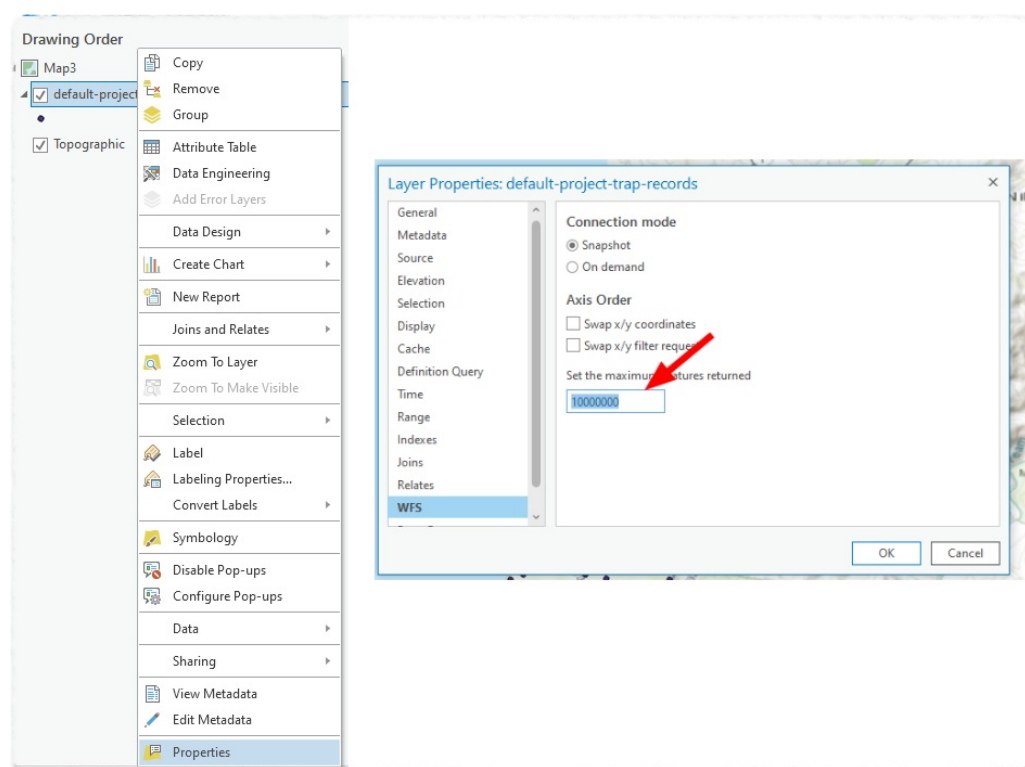
You will now see the available layers:



## Working with the layers

Right-click or drag the layer to the map to see the features.

Note that, by default, ArcGIS only shows a maximum of 3000 features in the WFS layer. To change this, right-click the layers, select properties and then set the maximum features to something well above what you expect should be returned.



## Filtering records

You can add a **CQL filter** to a WFS connection to filter features from the WFS server. This can be achieved by adding this parameter to the Custom request parameters - which can greatly reduce the amount of data retrieved (speeding up the transfer and improving performance).

For example - if you are only interested in this year's records, you could add a CQL filter as a Custom request parameter

WFS Server Connection Properties: WFS on io.trap.nz.wfs

**General**

Name: WFS on io.trap.nz.wfs

Server URL: https://io.trap.nz/geo/trapnz-projects/...

Examples: http://gisserver.example.com/arcgis/services/SampleWorldCities/MapServer/WFSServer?  
http://gisserver.example.com:8080/geoserver/ows?

Version: 2.0.0

Custom request parameters

Parameter	Value
PAGESIZE	5000
SWAPXY	FALSE
SWAPXYFILTER	FALSE
cql_filter	record_date %3E '2021-01-01'

Add Row Remove Row

Authentication (Optional)

User Name:

OK Cancel

Add cql\_filter as Parameter, and record\_date %3E '2021-01-01' as Value.

Note: symbols such as '<' and '>' need to be URL encoded, hence the %3E in place of >

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★ Created 15 December 2021 20:22:23 by Daniel Bar-Even

✎ Updated 8 July 2024 02:11:49 by Cosmos