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OData Tips and Tricks

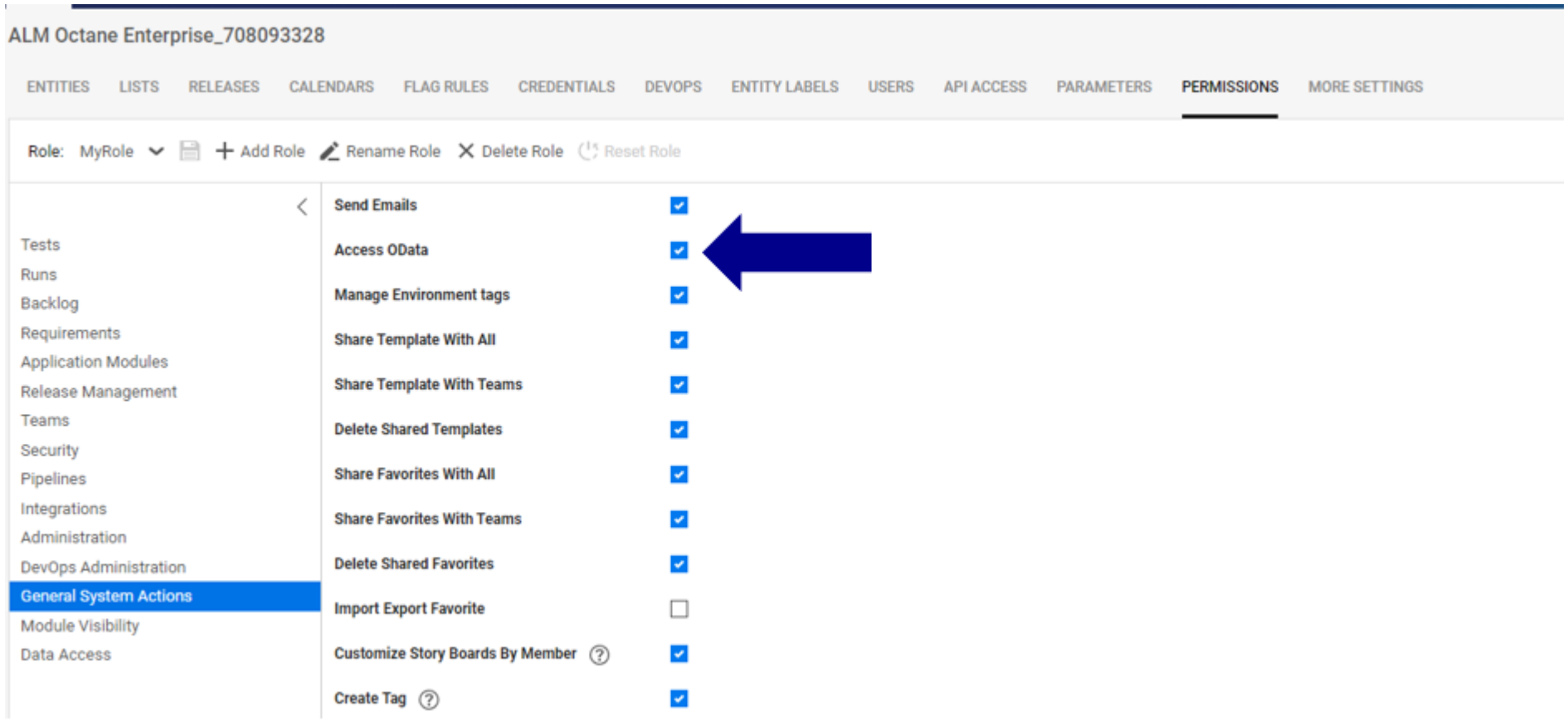
SaaS TAM

07 10 2023 | Thanh Phan

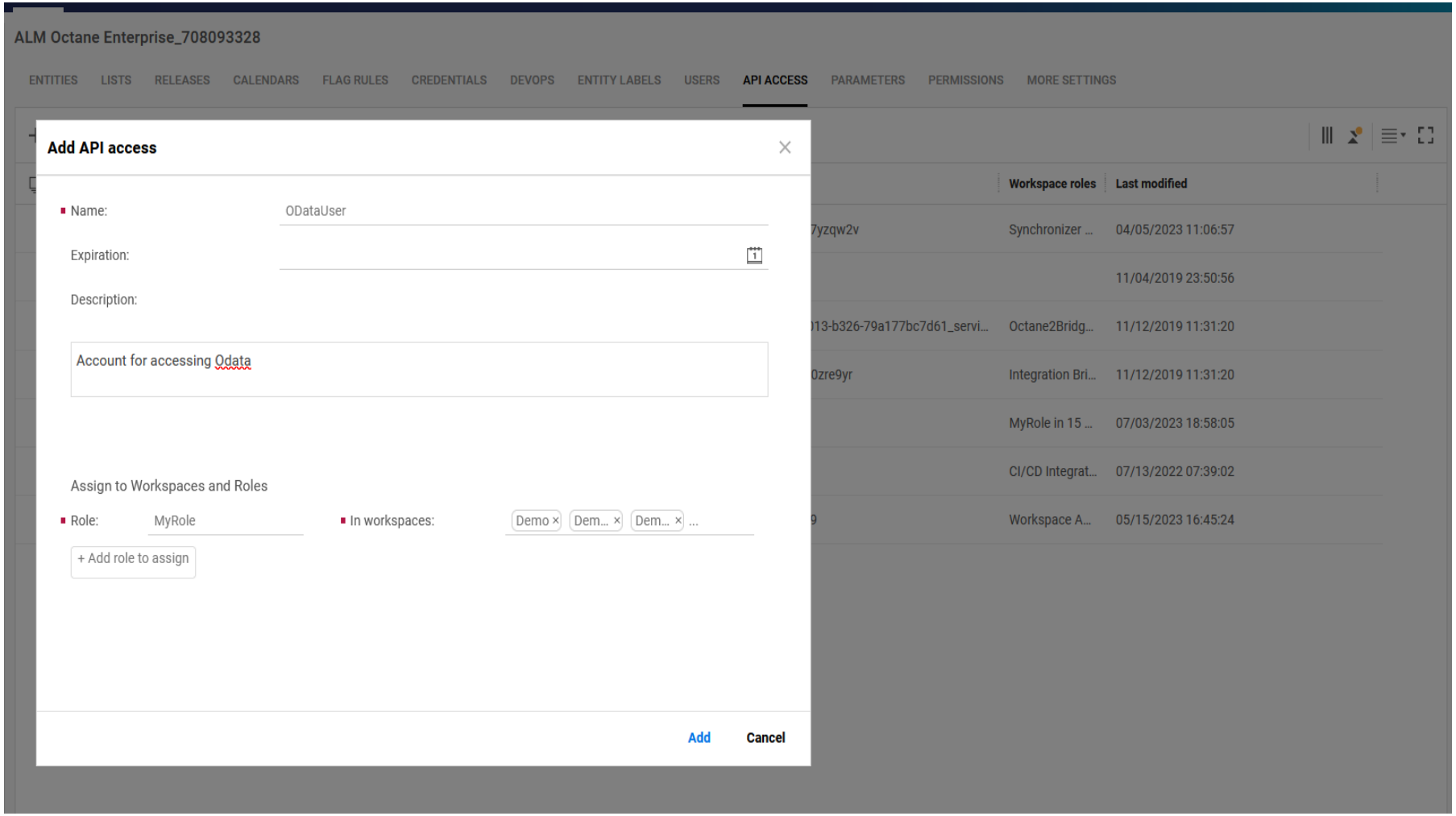
Agenda

- Prerequisites for OData
- Accessing OData using Power BI
- Accessing OData using Postman

Enable Access OData

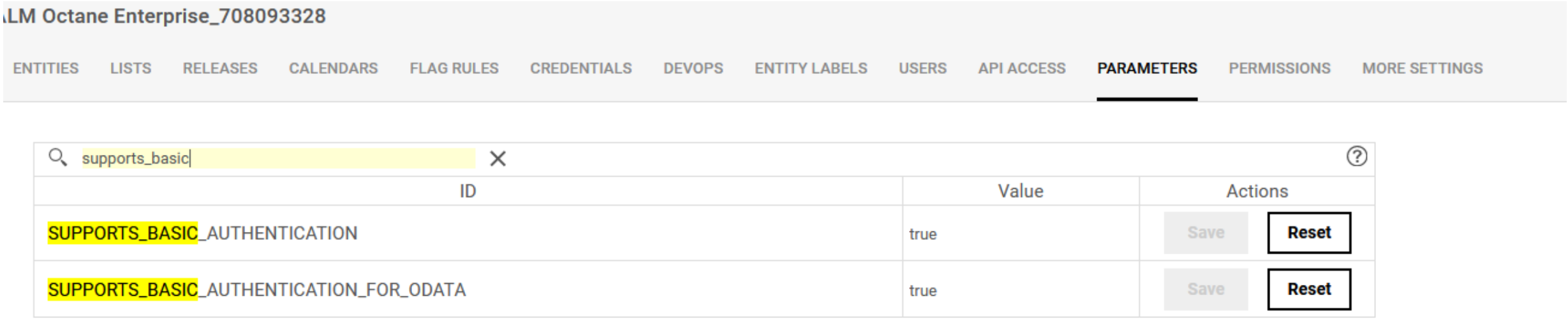


Create API Key And Grant Access to Workspace

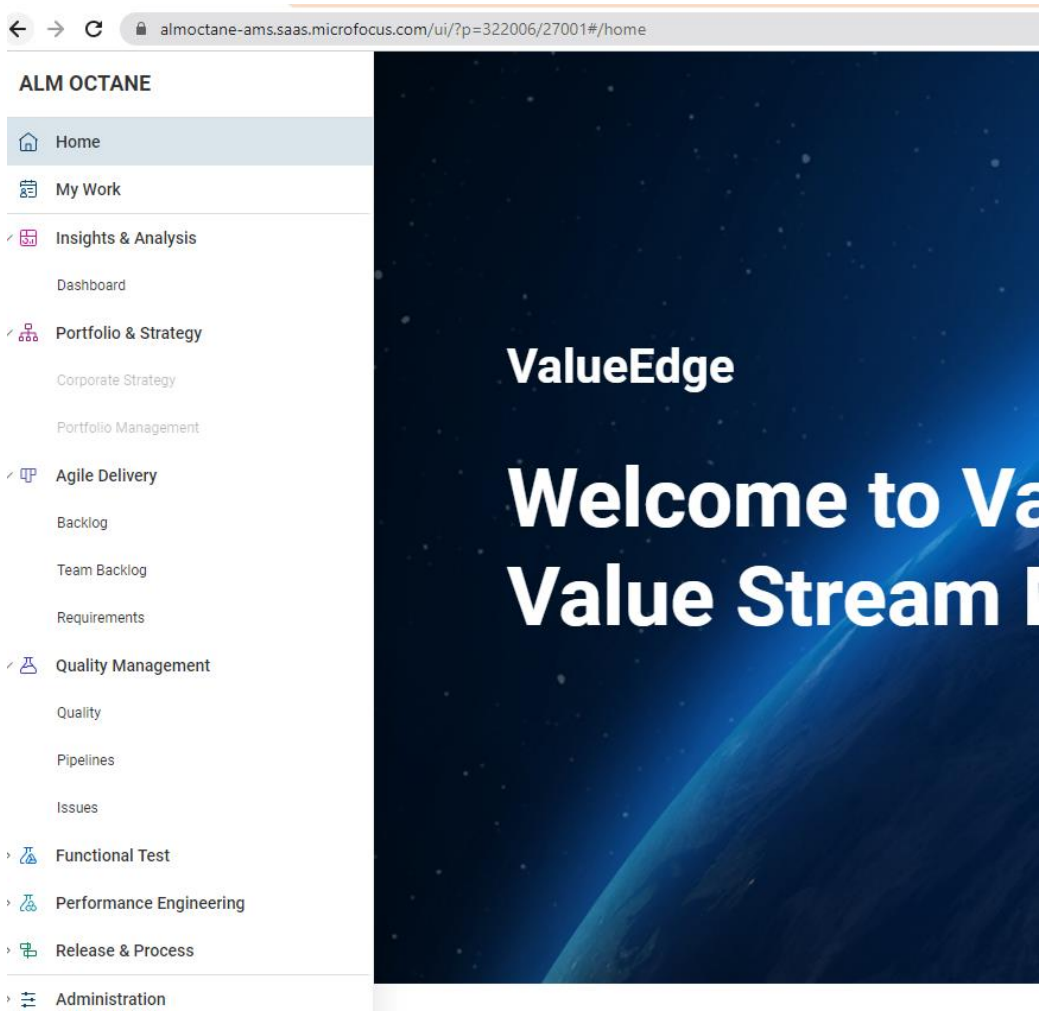


Create an APIKey and provide access to the appropriate workspaces

Enable SUPPORTS_BASIC_AUTHENTICATION



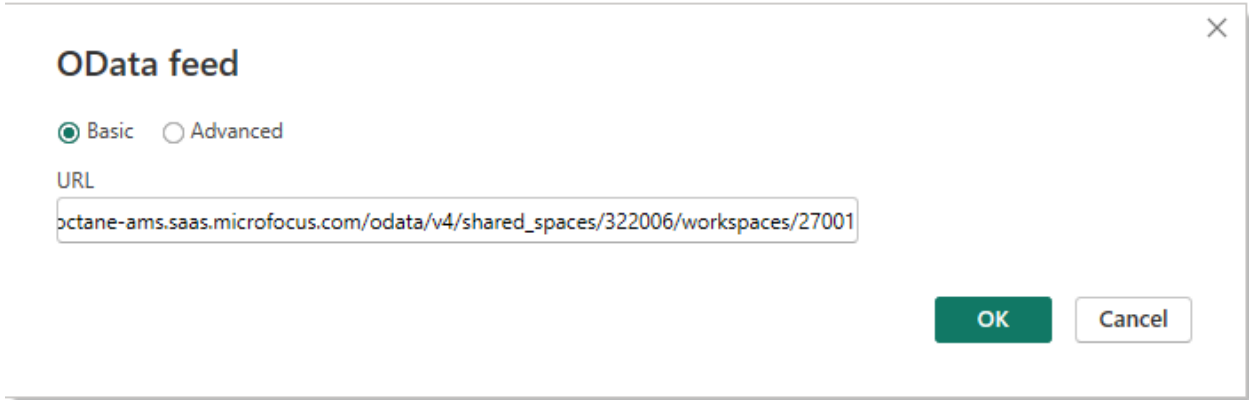
PowerBI Connection



<https://server> :<port> /odata/v4/shared_spaces/<space_ID>/workspaces/<workspace_ID>/

Example:

https://almoctane-ams.saas.microfocus.com/odata/v4/shared_spaces/322006/workspaces/27001



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Cross Workspaces

Single workspace:

<https://server> :<port> /odata/v4/shared_spaces/<space_ID>/workspaces/<workspace_ID>/

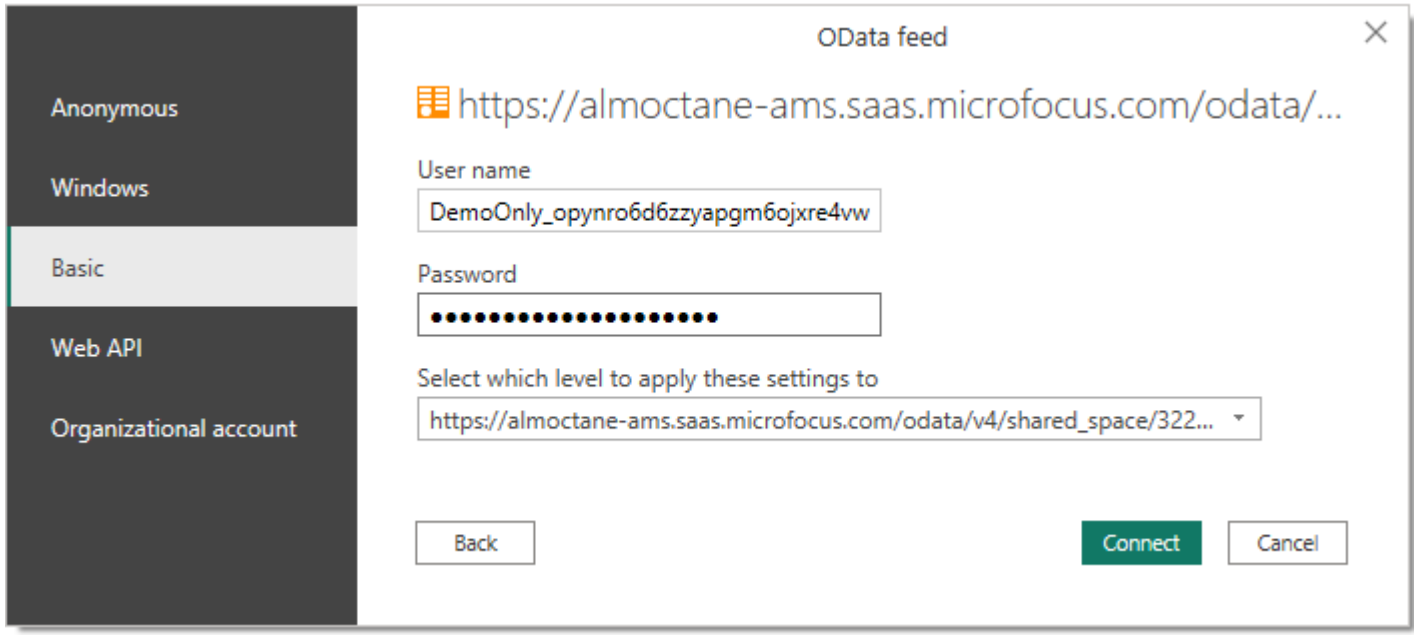
Multiple workspaces:

<https://server> :<port> /odata/v4/shared_spaces/<space_ID>/workspaces/<workspace_ID>/cross_workspace/<1002>,<1003>

All workspaces:

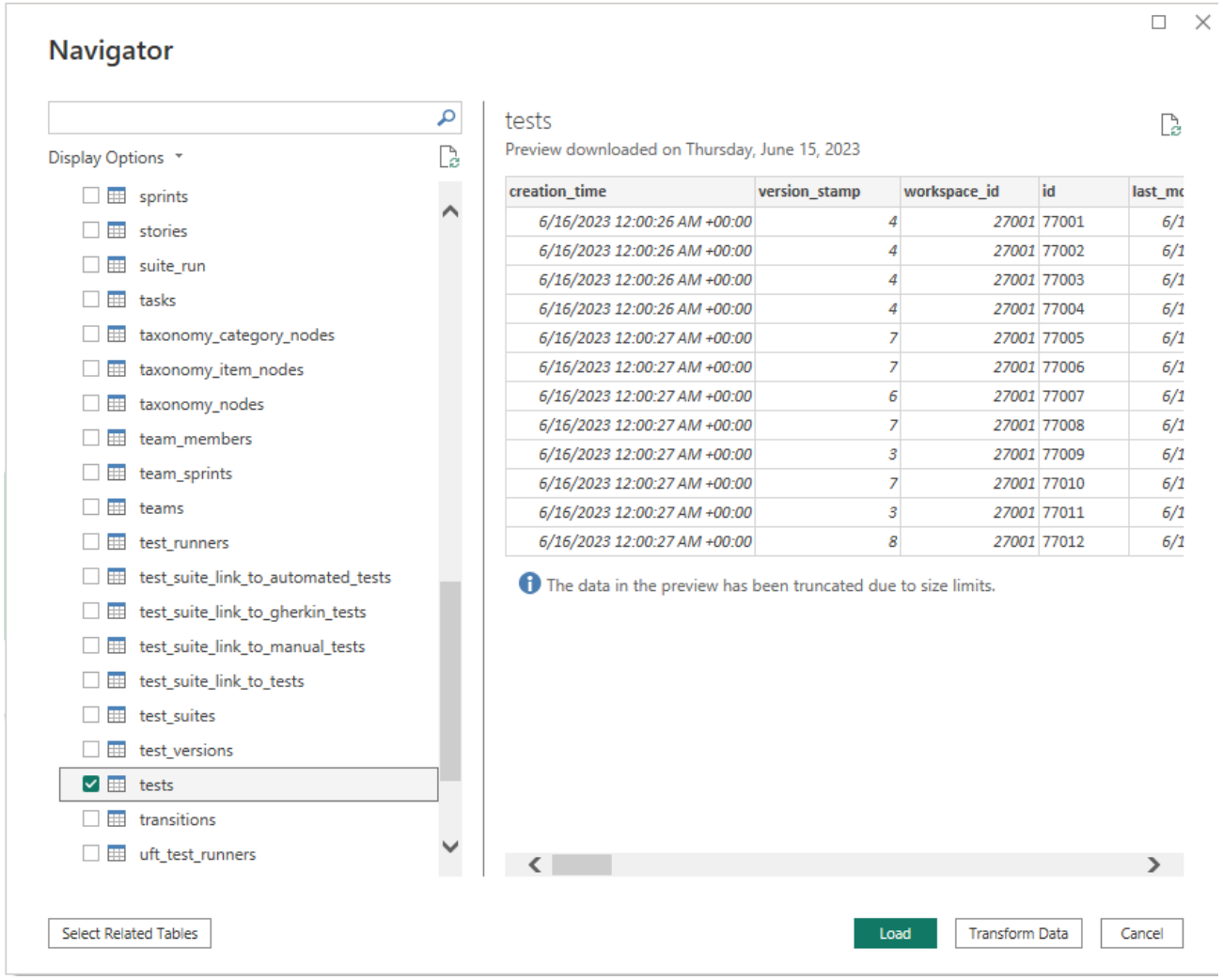
<https://server> :<port> /odata/v4/shared_spaces/<space_ID>/workspaces/<workspace_ID>/cross_workspace/*

Use Basic Authentication



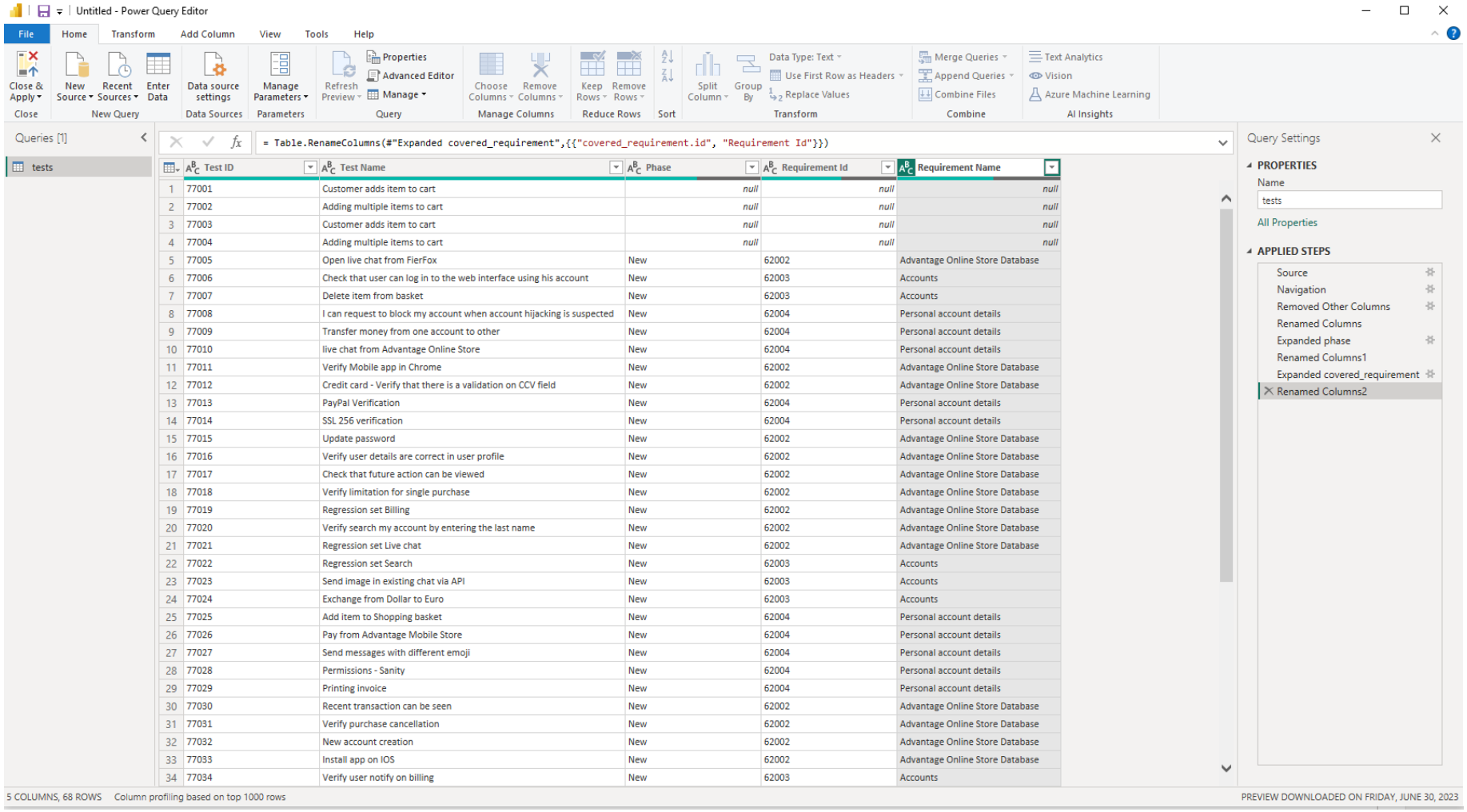
Use Basic authentication and enter API Key for “User name” and Secret for “Password”

Select VE Collection to load



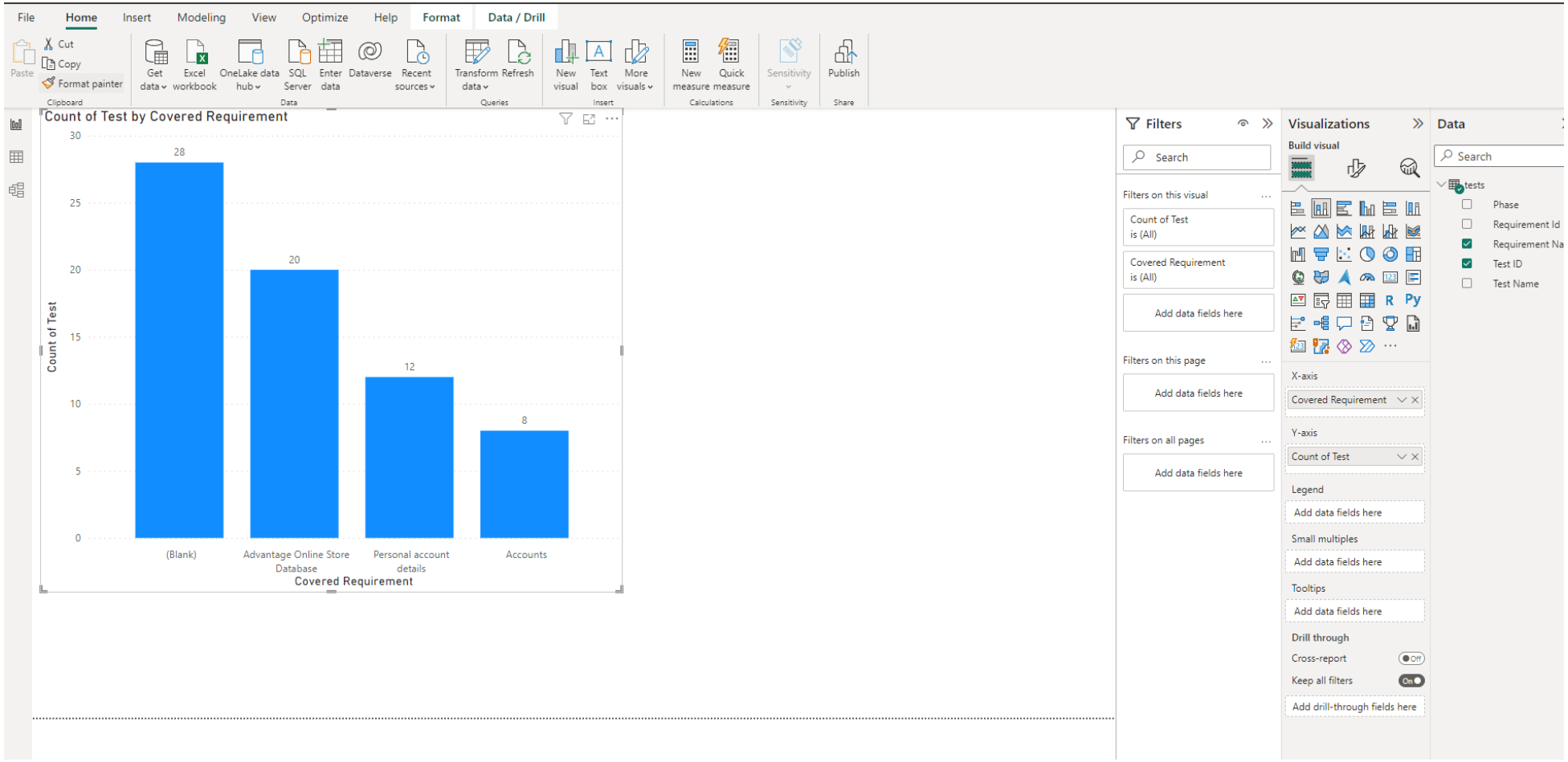
Select the collection from the connection. There are 59 collections available.

Transform Data



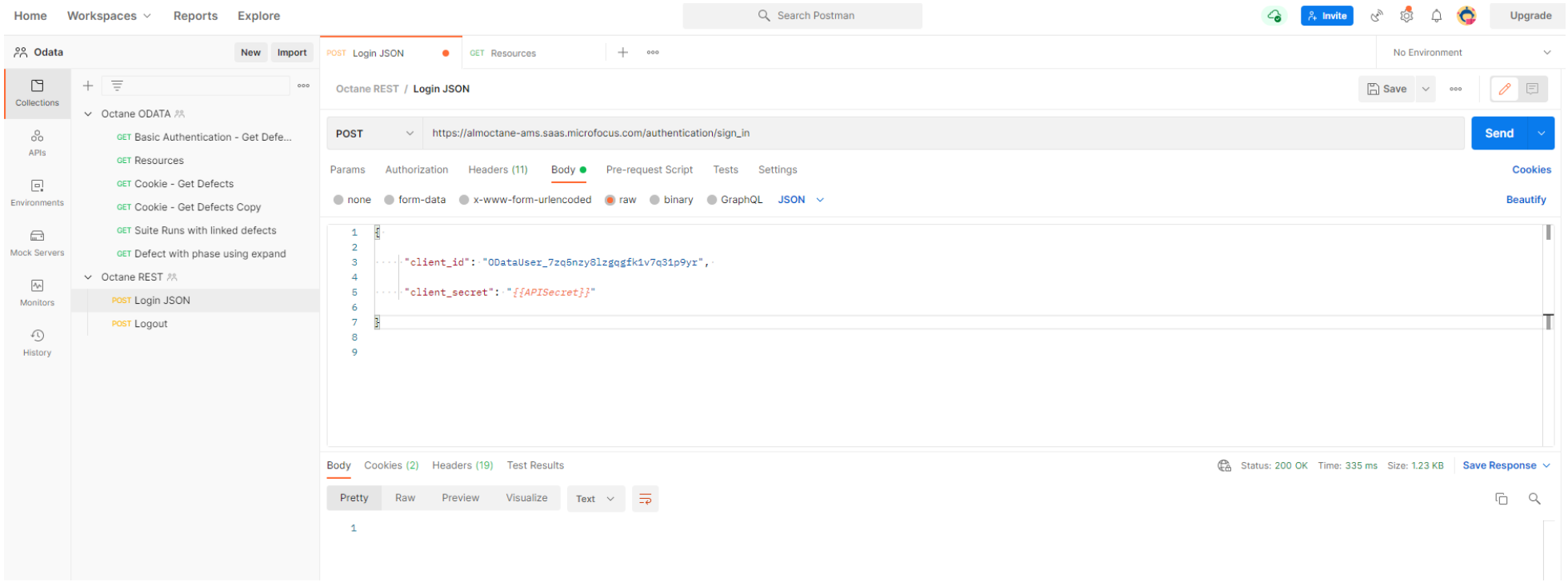
Transform data by applying column selection, filter, rename and etc.

Graph Data



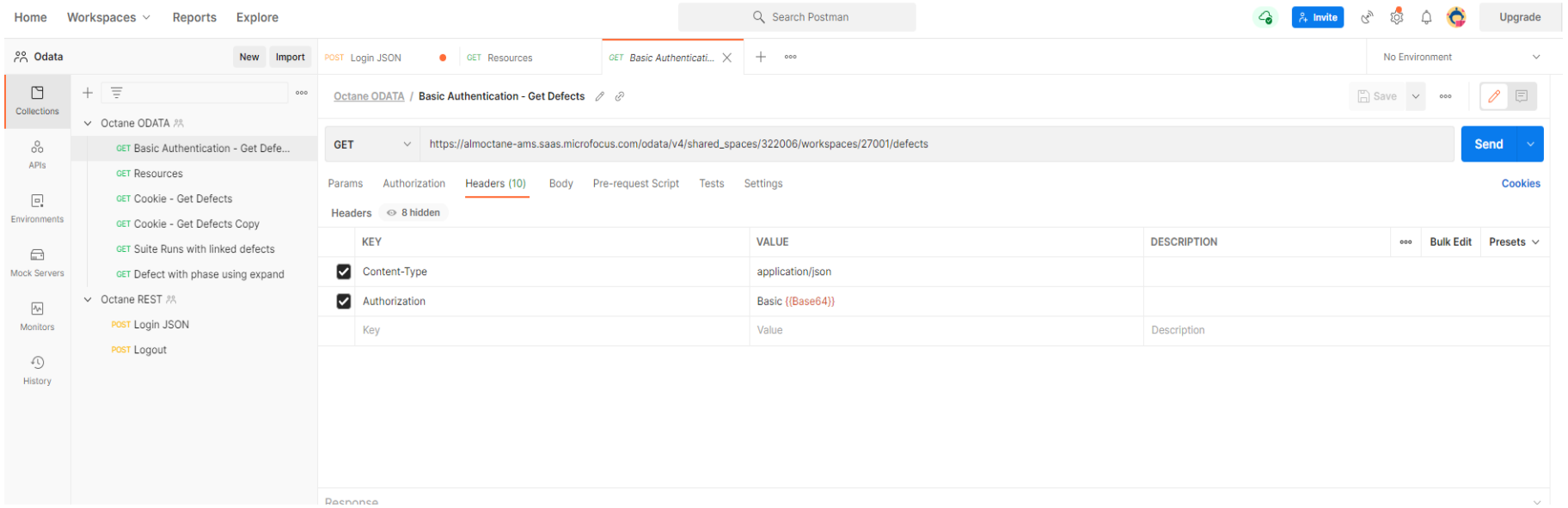
Graph data using the data load in PowerBI

Odata for Developers – Authentication using JSON



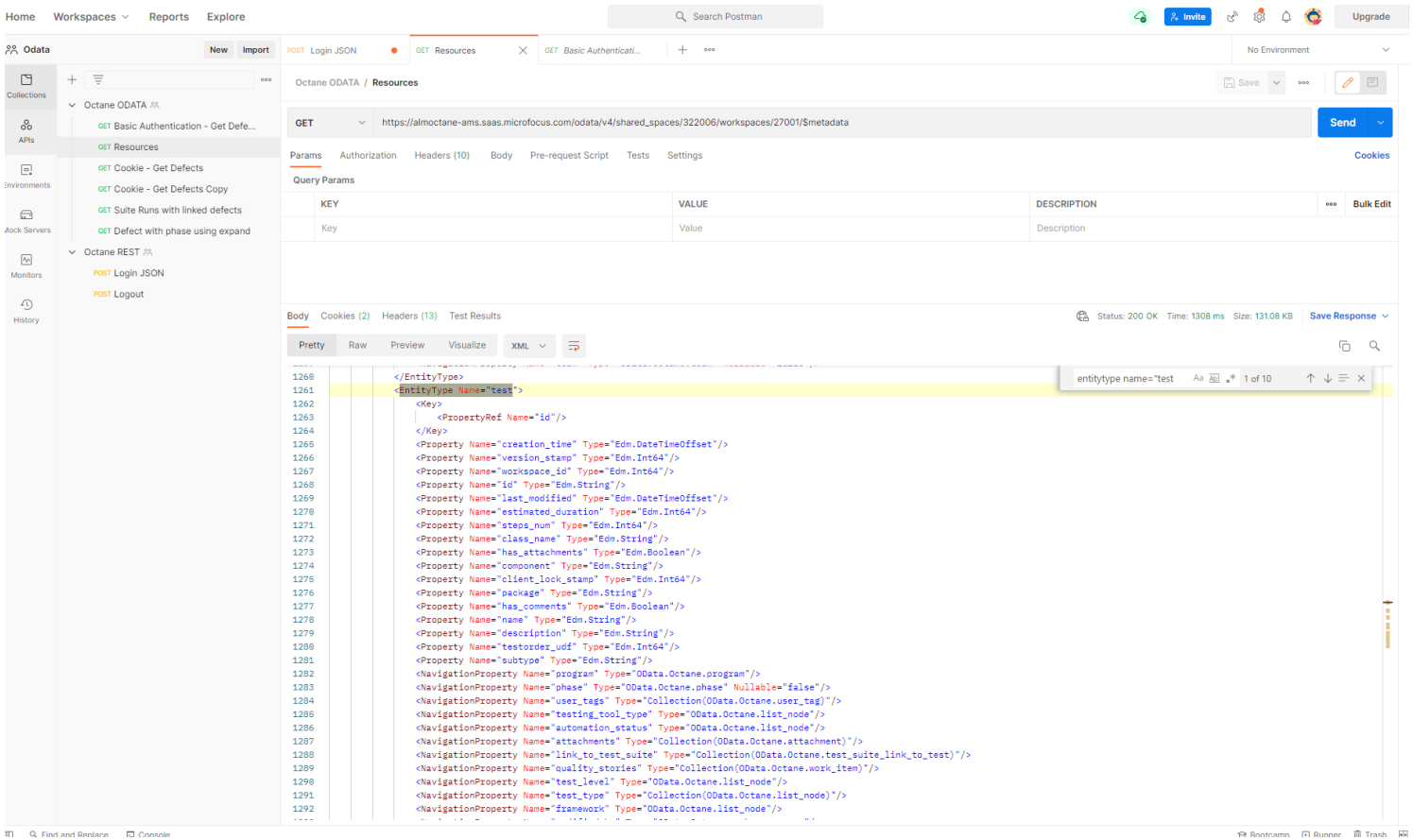
Add JSON string containing API and Secret or username and Password.

Odata for Developers – Authentication using Basic Authentication



Add Authorization Header with Base64 encrypted username:password or apikey:secret prefixed by Basic string

Odata for Developers: metadata



GET: <https://server> :<port> /odata/v4/shared_spaces/<space_ID>/workspaces/<workspace_ID>/metadata

Query metadata to get the odata REST resources

Odata for Developers: Options and Operators

Area	Supported conventions
Options	$select, $search, $filter, $orderby, $top, $count, $paging, $skip, $format, $expand, $link & $count, and returning the raw value. **Note:** When using the $skip option with the history_records entity, add two additional parameters: $originalSkip and $innerOffset. For details, see Specify an offset within history records - OData (technical preview).

$filter operators	**Logical operators**: eq, ne, gt, ge, lt, le, and, or, not, ( ). -
	
	Filtering with logical operators on entities that have associations is not always supported.
	
	↑ How do I know if I can filter an entity with logical operators?
	
	You cannot filter entities involved in associations with a multiplicity of *.
	
	Check the OData $metadata file to look for the entity's associations.
	
	The following OData metadata excerpt demonstrates that runs and releases have an association:
	
	`<Association Name="run_to_release">`
	`<End Type="OData.Octane.run" Multiplicity="*" Role="run->release"/>`
	`<End Type="OData.Octane.release" Multiplicity="1" Role="release->run"/>`
	`</Association>`
	
	• The release's multiplicity is **1**, so you can filter the run entity for a specific release with logical operators. Only one release can be associated with a run.
	
	• The run's multiplicity is *, so you cannot filter the release entity for a specific run with logical operators. Many runs can be associated with a release.

Functions	**String functions**: bool substringof, bool endswith, bool startwith

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THANK YOU