

Excercise 1 - Look at OData and create a Destination

Inhaltsverzeichnis

1. Objectives	1
2. Northwind Service	2
2.1. Metadata	2
3. Query String Parameters	3
3.1. Test Postman	3
4. Destination	5
5. Business Application Studio	7

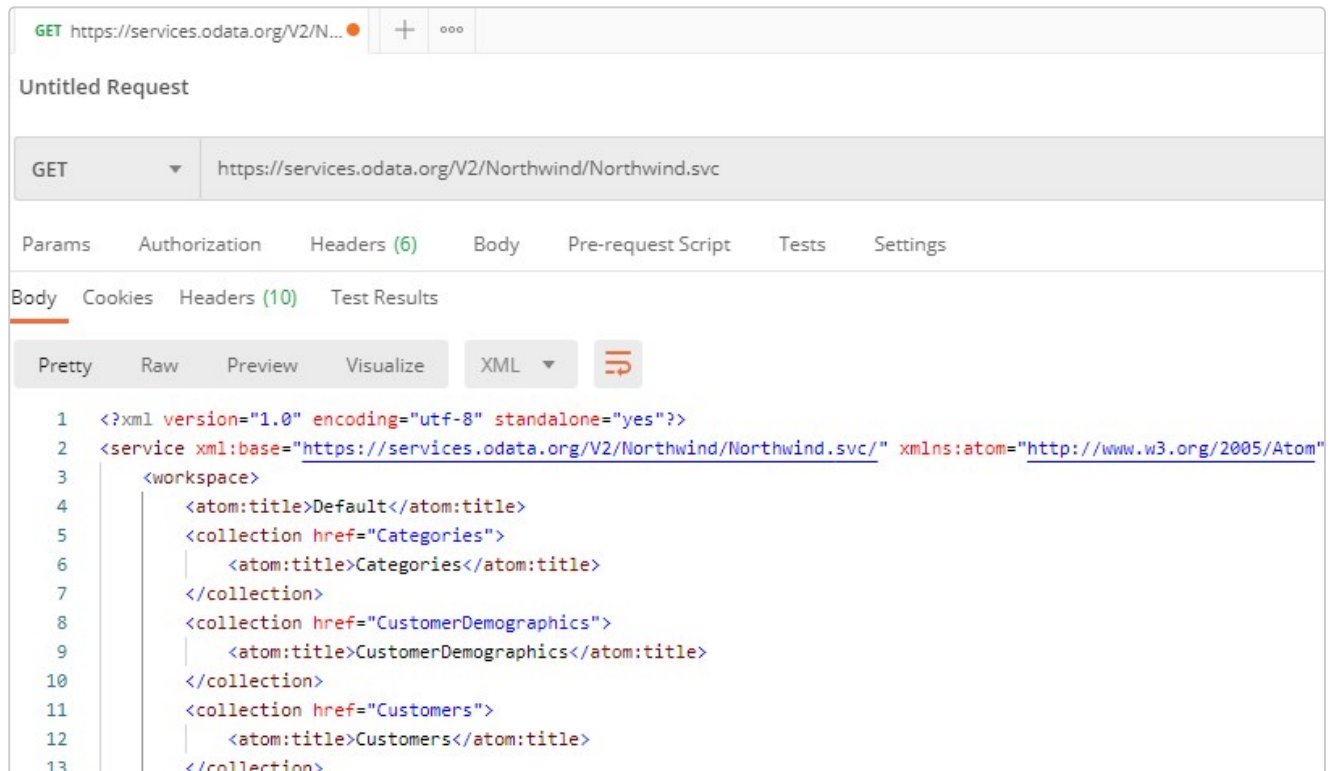
1. Objectives

- Take a look at OData Service and test it
- Create a destination for the Northwind service
- Create dev spaces for Business Application Studio

2. Northwind Service

- We will use the free OData V2 Northwind Service

<https://services.odata.org/V2/Northwind/Northwind.svc/> [<https://services.odata.org/V2/Northwind/Northwind.svc/>]



2.1. Metadata

- Metadata document describes the OData service
- Entity types
 - Properties
 - Key properties
 - Navigation properties
- Entity sets
- Associations

link::[https://services.odata.org/V2/Northwind/Northwind.svc/\\$metadata/](https://services.odata.org/V2/Northwind/Northwind.svc/$metadata/) [[https://services.odata.org/V2/Northwind/Northwind.svc/\\$metadata/](https://services.odata.org/V2/Northwind/Northwind.svc/$metadata/)]

3. Query String Parameters

\$count	The \$count system query option allows clients to request a count of the matching resources included with the resources in the response.
\$expand	The \$expand system query option specifies the related resources to be included in line with retrieved resources. You might think of this as an SQL join operation. Only navigation properties can be expanded; you can identify navigation properties in the Data Model entity relationship diagram.
\$filter	The \$filter system query option allows clients to filter a collection of resources that are addressed by a request URL.
\$expand	The \$expand system query option specifies the related resources to be included in line with retrieved resources. You might think of this as an SQL join operation. Only navigation properties can be expanded; you can identify navigation properties in the Data Model entity relationship diagram.
\$orderby	The \$orderby system query option allows clients to request resources in a particular order.
\$search	The \$search system query option allows clients to request entities matching a free-text search expression.
\$select	The \$search system query option allows clients to request entities matching a free-text search expression.
\$skip	The \$skip query option requests the number of items in the queried collection that are to be skipped and not included in the result. A client can request a particular page of items by combining \$top and \$skip.
\$top	The \$top system query option requests the number of items in the queried collection to be included in the result. A client can request a particular page of items by combining \$top and \$skip.

3.1. Test Postman

- List of Products

[../Products](#)

- Product with ProductID 3

[../Products\(3\)](#)

- Expand Category for Product 3

../Products(3)?\$expand=Category

- First 10 Products

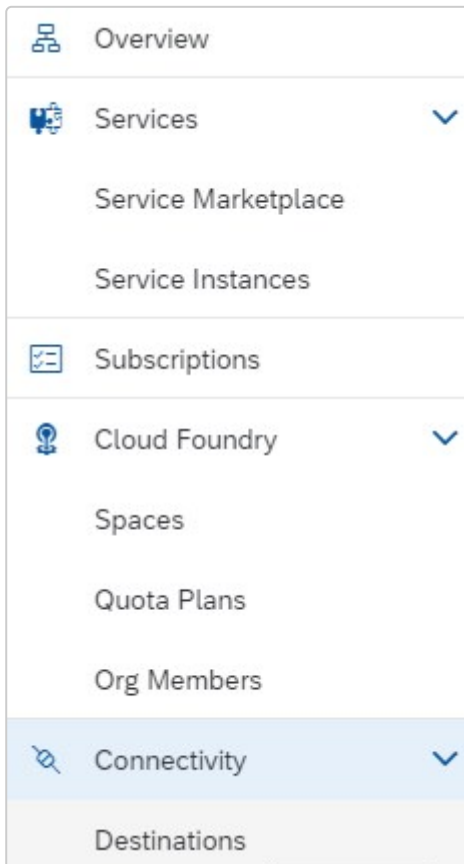
../Products?\$top=10

- Products 11 - 20

../Products?\$top=10&\$skip=10

4. Destination

- We will create a destination for the Northwind service
- You can find destinations on your Subaccount level in Connectivity section



- Add the destination

Destination Configuration

Name: *	<input type="text" value="Northwind"/>	Additional Properties		<input type="button" value="New Property"/>
Type:	<input type="text" value="HTTP"/>			
Description:	<input type="text" value="Northwind OData services"/>			
URL: *	<input type="text" value="https://services.odata.org/V2/Northwind/North..."/>			
Proxy Type:	<input type="text" value="Internet"/>			
Authentication:	<input type="text" value="NoAuthentication"/>			

HTML5.Dyna...	<input type="text" value="true"/>	
WebIDEAddit...	<input type="text" value="full_url"/>	
WebIDEEnab...	<input type="text" value="true"/>	
WebIDESyst...	<input type="text" value="Northwind_Data"/>	
WebIDEUsage	<input type="text" value="odata_gen"/>	

☒ Use default JDK truststore

- We need to set up following destination configuration

Name	Northwind
Type	HTTP
Description	Northwind OData services
URL	https://services.odata.org/V2/Northwind/Northwind.svc
Proxy Type	Internet
Authentication	NoAuthentication

- Add Parameters

HTML5.DynamicDestination	true
--------------------------	------

WebIDEAdditionalData	full_url
WebIDEEnabled	true
WebIDESystem	Northwind_Data
WebIDEUsage	odata_gen

- Save and Check connection

Check Connection

 Connection to "Northwind" established. Response returned: "307: Temporary Redirect"

Close

5. Business Application Studio

- Subscribe to Business Application Studio
 - In your trial account go to Subscriptions / SAP Business Application Studio

The screenshot shows the SAP Business Application Studio interface. On the left is a navigation menu with categories: Overview, Services (Service Marketplace, Service Instances), Subscriptions (selected), Cloud Foundry (Spaces, Quota Plans, Org Members), Connectivity (Destinations), and Security. The main content area is titled 'Subaccount: trial - Subscriptions' with a filter count of 'Filtered: 1 of 24'. Below this, under the heading 'Extension Suite - Development Efficiency', there is a card for 'SAP Business Application Studio' which is marked as 'Subscribed'. The card includes the SAP logo and the text 'Develop, debug, test, and deploy SAP business applications.' Below the card, the name 'trial' is listed, and a 'Go to Application' link is provided.

- We need to create 2 dev spaces
 - When starting Business Application Studio you will be asked about your Dev space

Dev Spaces

Create and manage your development environment according to the type of applications you want to develop.

You can add extensions and tools to further enhance your development options.





Create Dev Space

- Because of the different tools available we will need 2 dev spaces
- fiori dev space

Create a New Dev Space



What kind of application do you want to create?





- ☒  SAP Fiori
- ☐  SAP Cloud Business Application
- ☐  SAP Cloud Platform Mobile Services
- ☐  Basic

- cap dev space

Create a New Dev Space



What kind of application do you want to create?

- ☐  SAP Fiori
- ☒  SAP Cloud Business Application
- ☐  SAP Cloud Platform Mobile Services
- ☐  Basic

- We start the fiori dev space







Dev Spaces

Create and manage your development environment according to the type of applications you want to develop.

You can add extensions and tools to further enhance your development options.

[Create Dev Space](#)

You are allowed a maximum number of 2 dev spaces, and only 1 can be run at a time.

	cap SAP Cloud Business Application	STOPPED	Created On 19.10.2020 17:48	ID ws- 8gbwj	   
	fiori SAP Fiori	RUNNING	Created On 19.10.2020 17:43	ID ws- hvp5q	