

How to Use an OData Connection with Service Principal Authentication for Dynamics 365 Business Central

August 3rd, 2022



By [Justin Song](#), Senior BI Analyst

As you may be aware, Web Service Access Key has now been deprecated for [Dynamics 365 Business Central](#) Online, and users will need to use OAuth instead. In this blog, I'll show you how to use an OData connection with Service Principal Authentication for Dynamics 365 Business Central in Azure Data Factory, Azure Synapses Analytic, or Excel.

Production BOMs in D365 Business Central

This will allow you to integrate Business Central with, for instance, a SQL server for 3rd-party reporting or a data warehouse.

The screenshot shows the 'User Card' for 'James Bond'. At the top, there's a red box highlighting a warning message: 'Web Service Access Key has been deprecated for Business Central online. Please use OAuth.' Below this, there are tabs for 'Effective Permissions', 'Send Email', and 'More options'. The main section is titled 'General' and contains fields for User Name (JAMES.BOND), Full Name (James Bond), Status (Enabled), Contact Email (james.bond@encorecrmdev1.onmicrosoft.com), Microsoft 365 Authentication Email (james.bond@encorecrmdev1.onmicrosoft.com), Mapped To Exchange Identifier (disabled), Authentication Status (Active), and a 'Web Service' section with a Web Service Access Key (redacted) and Web Service Expiry Date (7/14/2022 3:02 PM). A 'Show less' link is visible at the bottom right of the General section.

Register an Application

First, you need to register an application with Azure AD and create a service principal:

Register an application. Go to [Azure Portal](#). Select Azure Active Directory.

September 23
9:00 am – 9:30 am PST

Register

Suggested Articles:

Improving Order-to-Cash and Procure-to-Pay Process with EDI in Microsoft Dynamics 365 Business Central

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Impactful Copilot Features in Dynamics 365 Business Central

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The screenshot shows the Azure portal's left sidebar with various service icons and names. The 'Azure Active Directory' icon is highlighted with a red box. The main content area displays several promotional cards. One card for 'Manage Azure Active Directory' shows a shield icon and a 'View' button. Another card for 'Access student benefits' shows a pen writing on a tablet icon and a 'Explore' button. Below these, there is a larger section for 'Azure Active Directory' with a blue icon, a 'View' button, and a 'Free training from Microsoft' link. Other links in this section include 'Secure your application by using OpenID Connect...', 'Useful links' (Overview, Get started, Documentation, Pricing), and icons for 'Logic apps' and 'App Services'.

Select App registration:

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Microsoft Azure Search resources, services, and

Home >

Encore CRM DEV 1 | Overview

Azure Active Directory

Overview

- Overview
- Preview features
- Diagnose and solve problems

Manage

- Users
- Groups
- External Identities
- Roles and administrators
- Administrative units
- Enterprise applications
- Devices
- App registrations**
- Identity Governance

Add Microsoft Entra admin center

Overview **Monitor**

Search your tenant

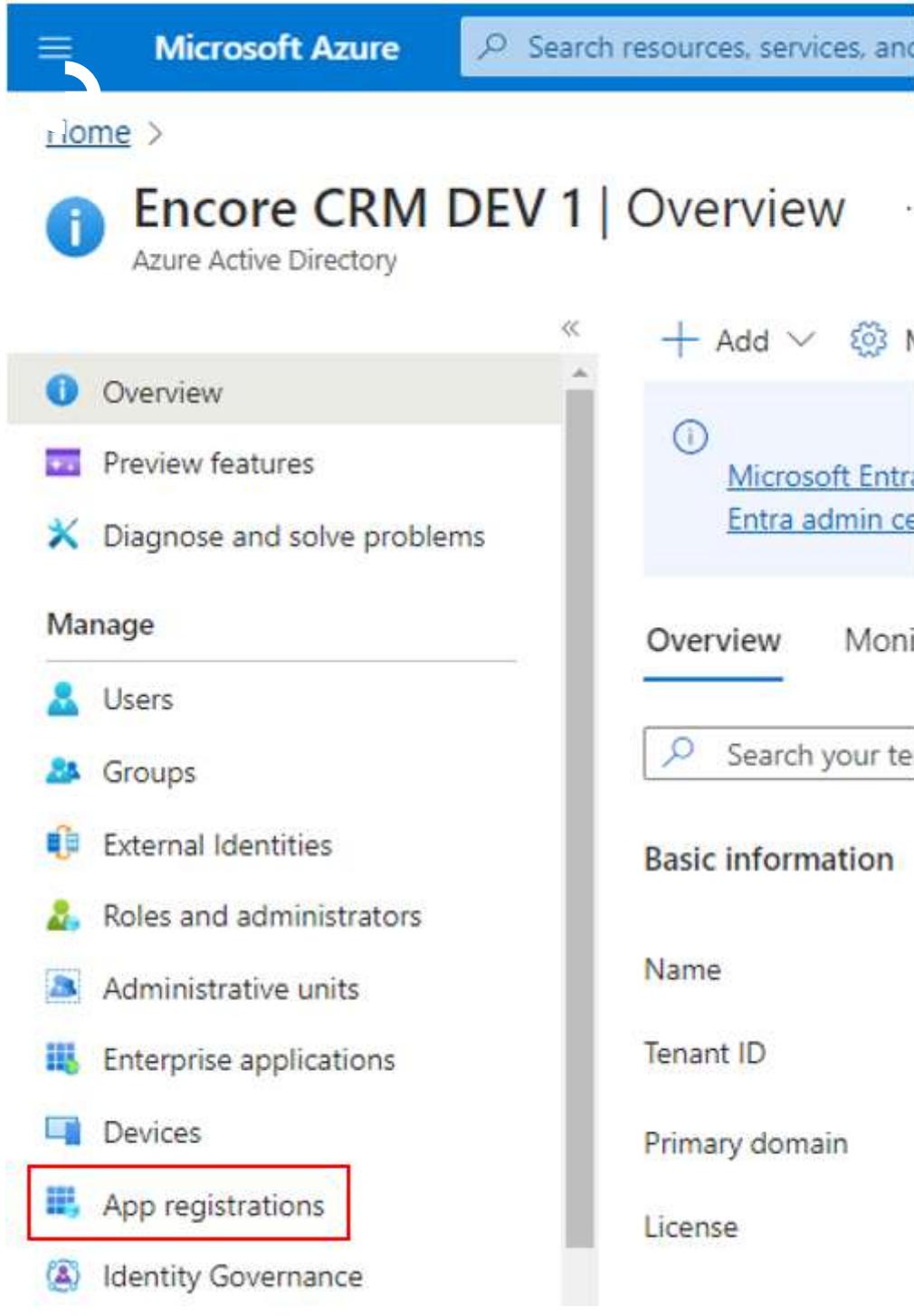
Basic information

Name

Tenant ID

Primary domain

License



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Register

Suggested Articles:

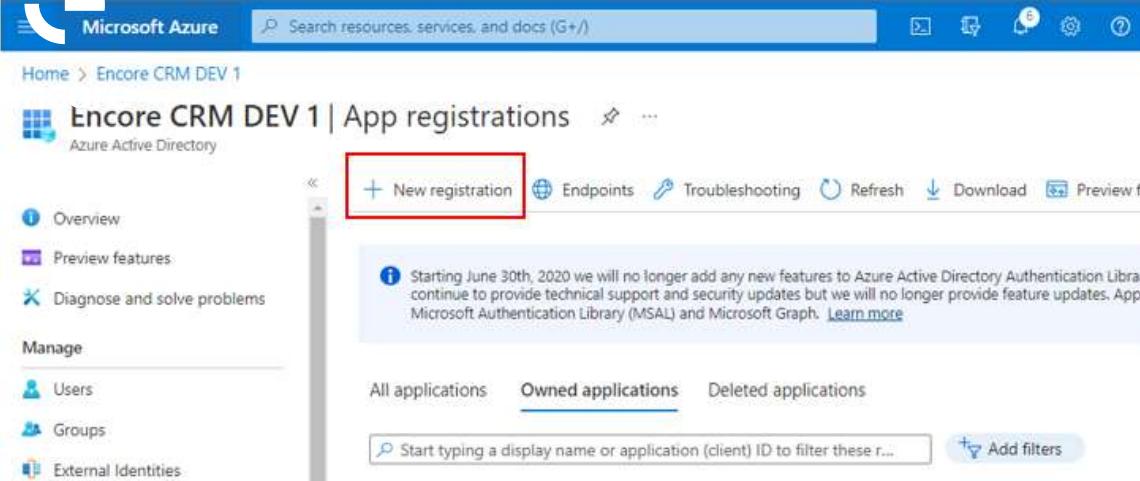
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Select New registration:



The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header bar with the Microsoft Azure logo and a search bar that says "Search resources, services, and docs (G+ /)". Below the header, the URL "Home > Encore CRM DEV 1" is visible. The main title is "Encore CRM DEV 1 | App registrations". On the left, there's a sidebar with "Overview", "Preview features", "Diagnose and solve problems", "Manage" (with "Users", "Groups", and "External Identities" options), and a "New registration" button which is highlighted with a red box. The main content area shows a message about the end of support for the Azure Active Directory Authentication Library. Below that, there are tabs for "All applications", "Owned applications" (which is selected and underlined), and "Deleted applications". There's also a search bar and a "Add filters" button.

Enter Name and select Supported account type. Click Register.

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Microsoft Azure

Home > Encore CRM DEV 1 > Register an application

Name

The user-facing display name for this application (this can be changed later).

D365 BC

Supported account types

Who can use this application or access this API?

Accounts in this organizational directory only (Encore CRM DEV 1 only - Single tenant)

Accounts in any organizational directory (Any Azure AD directory - Multitenant)

Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Select a platform e.g. https://example.com/auth

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

You will need an Application (client) ID and Directory (tenant) ID.

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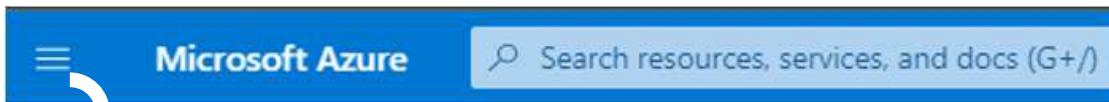
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Home > Encore CRM DEV 1 >

D365 BC

Search (Ctrl+/
)

Delete Endpoints

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

^ Essentials

Display name
[D365 BC](#)

Application (client) ID
bc566d85-f7b3-4a11-8579-92e...

Object ID
ec8ed022-51d1-4720-9bc5-a6...

Directory (tenant) ID
0088b30c-ae53-4bbc-9958-65...

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Create Client Secret

Select Certificate & secrets and click New client secret:

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Microsoft Azure Search resources, services, and docs (G+)

Home ▾ Encore CRM DEV 1 > D365 BC

D365 BC | Certificates & secrets

Search (Ctrl+ /) Got feedback?

Overview Quickstart Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets**
- Token configuration
- API permissions
- Expose an API
- App roles

Credentials enable confidential applications to identify themselves to the authentication service (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate.

Application registration certificates, secrets and federated credentials can be found in the [Azure Active Directory](#).

Certificates (0) Client secrets (0) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also used for OAuth 2.0 client-to-client flows.

+ New client secret

Description	Expires	Value ⓘ
No client secrets have been created for this application.		

Enter Description and select Expires. Click Add. Please note that maximum expiry period is up to 24 months.

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D365 BC | Certificates & secrets

Search... Got feedback?

- Overview
- Quickstart
- Integrator's assistant
- Manage**
 - Branding & properties
 - Authentication
 - Certificates & secrets** (selected)
 - Token configuration
 - API permissions
 - Expose an API
 - App roles
 - Owners
 - Roles and administrators
 - Manifest
- Support + Troubleshooting
- Troubleshooting
- New support request

Add a client secret

Description	D365-BC-20220714
Expires	24 months

Application registration certificates, secrets and federation

Certificates (0) Client secrets (0) Federated

A secret string that the application uses to prove its identity.

+ New client secret:

Description	Expires
-------------	---------

No client secrets have been created for this application.

Add **Cancel**

Copy Value and save it somewhere. It will only be visible once and you won't be able to retrieve the value.

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Microsoft Azure Search resources, services, and docs (G+)

Home > Encore CRM DEV 1 > D365 BC

D365 BC | Certificates & secrets

Search (Ctrl+ /) Got feedback?

Overview Quickstart Integration assistant Manage

Branding & properties Authentication Certificates & secrets

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens a (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) a

Got a second to give us some feedback? →

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (1) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as applic

+ New client secret

Description	Expires	Value	Secret ID
D365-BC-20220714	7/14/2024	RTW8Q-GINsyLgMYtDznv42V6jq...	a7ecf351-e2

Select API permissions:

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Microsoft Azure Search resources, services, and docs (G+)

Home > Encore CRM DEV 1 > D365 BC

D365 BC | API permissions

Search (Ctrl+ /) Refresh Got feedback?

Overview Quickstart Integration assistant

The "Admin consent required" column shows the default value for an organization. However, user consent can be customized for this app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. Admin consent should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for Encore CRM DEV 1

API / Permissions name	Type	Description	Admin consent req...
Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	No

To view and manage permissions and user consent, try [Enterprise applications](#).

Manage

- Branding & properties
- Authentication
- Certificates & secrets
- Token configuration
- API permissions** (highlighted)
- Expose an API
- App roles
- Owners

Click Add a permission. Find Dynamics 365 Business Central and click it:

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D365 BC | API permission

Search ⌂ R

- Overview
- Quickstart
- Integration assistant
- Manage**
 - Branding & properties
 - Authentication
 - Certificates & secrets
 - Token configuration
 - API permissions**
 - Expose an API
 - App roles
 - Owners
 - Roles and administrators
 - Manifest
- Support + Troubleshooting
- Troubleshooting
- New support request

Request API permissions

Azure Communication Services Rich communication experiences with the same secure CPaaS platform used by Microsoft Teams	Azure Cosmos DB Fast NoSQL database with open APIs for any scale.	Azure Data Catalog Programmatic access to Data Catalog resources to register, annotate and search data assets
Azure DevOps Integrate with Azure DevOps and Azure DevOps server	Azure Key Vault Manage your key vaults as well as the keys, secrets, and certificates within your Key Vaults	Azure Maps Create location-aware web and mobile applications using simple and secure geospatial services, APIs, and SDKs in Azure.
Azure Rights Management Services Allow validated users to read and write protected content	Azure Service Management Programmatic access to much of the functionality available through the Azure portal	Azure Storage Secure, massively scalable object and data lake storage for unstructured and semi-structured data
Data Export Service for Microsoft Dynamics 365 Export data from Microsoft Dynamics CRM organization to an external destination	Dynamics 365 Business Central Programmatic access to data and functionality in Dynamics 365 Business Central	Dynamics CRM Access the capabilities of CRM business, software and ERP systems
Dynamics ERP Programmatic access to Dynamics ERP data	Flow Service Embed flow templates and manage flows	Intune Programmatic access to Intune data

Click Application permissions. Select API.ReadWrite.All and Automation.ReadWrite.All. Click Add permissions.

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D365 BC | API permission

Request API permissions

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon without a signed-in user.

Select permissions

Start typing a permission to filter these results

Permission	Admin consent required
app_access	Yes
API (1)	
API.ReadWrite.All	Yes
Automation	
Automation.ReadWrite.All	Yes

Add permissions Discard

Click Grant admin consent confirmation, then select Yes:

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D365 BC | API permissions

Grant admin consent confirmation.

You want to grant consent for the requested permissions for all accounts in Encore CRM DEV 1? This will update any existing admin consent records this application already has to match what is listed below.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent.

API / Permissions	Name	Type	Description	Admin consent req...	Status
<input checked="" type="checkbox"/> Dynamics 365 Business Ce					
	API.ReadWrite.All	Application	Full access to web services API	Yes	⚠ Not granted for Encore ...
	Automation.ReadWrite...	Application	Full access to automation	Yes	⚠ Not granted for Encore ...
<input checked="" type="checkbox"/> Microsoft Graph (1)					
	User.Read	Delegated	Sign in and read user profile	No	

Set up the Azure AD Application in Business Central

Go to Dynamics 365 Business Central. Search for Azure Active Directory Applications and open the page.

Dynamics 365 Business Central

CRONUS Canada, Inc Tell me what you want to do

Customers Vendors IT

Insight from last week

Your top

Azure Active Directory Applications

Go to Pages and Tasks

> Azure Active Directory Applications

Administration

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Click New.

Azure Active Directory Applications

+ New

Client ID	Description	State
{7beab2a9-98ca-4abc-8ab3-4ae0feb6d344}	Business Central OAuth 2.0 App	Enabled
{af30e371-ad4a-4097-88c1-5555e7ada96f}	Dynamics 365 Business Central for Virtual Tab... Enabled	

Copy Application (client) ID from App and paste it on Client ID. Enter Description. Assign permissions.

Azure Active Directory Application Card

D365 BC App

Grant Consent

General

Client ID	{bc566d85-f7b3-4a11-8579-9266!}
Description	D365 BC App
State	Enabled

User Groups | Manage

Code	Name	Company Name
→ D365 FULL ACCESS		CRONUS Canada, Inc.

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Suggested Articles:

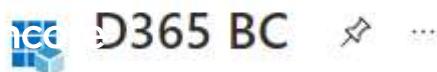
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Home > Encore CRM DEV 1 >



Search (Ctrl+ /) < Delete Endpoints

- Overview
- Quickstart
- Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets

^ Essentials

Display name
D365 BC

Application (client) ID
bc566d85-f7b3-4a11-8579-926

Object ID
ec8ed022-51d1-4720-9bc5-a6c

Directory (tenant) ID
0088b30c-ae53-4bbc-9958-65b

Create OData Dataset

Next, create an OData dataset for Dynamics 365 Business Central in Azure Data Factory.

Create dataset. Open Azure Data Factory Studio. Click New dataset.

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Would you like to try preview updates to Azure Data Factory Studio? [Open settings](#)

enco Data Factory Validate all Publish all

Factory Resources

Filter resources by name



Pipelines 53

Datasets 14

Data flows

New dataset

Power Query

New folder

Search OData. Click OData, then Continue.

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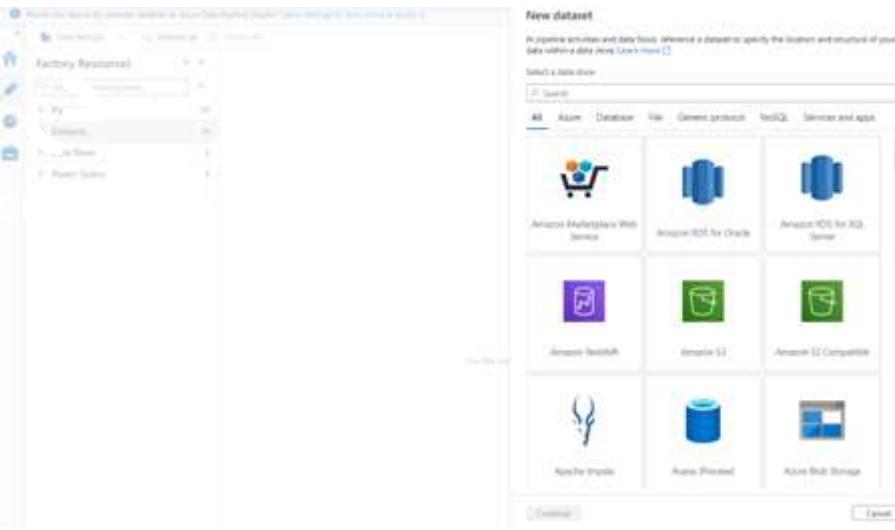
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A screenshot of the Microsoft Azure Data Factory studio interface, similar to the one above but with a different view. It shows the 'New dataset' creation interface with the 'OData' icon highlighted by a red box. Below the interface, a callout bubble contains the text 'Used for real-time data integration'.

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Enter Name, click new for Linked service.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar with 'Factory Resources' like Pipelines, Datasets, Data flows, and Power Query. The main area has a 'Set properties' dialog open. In the 'Name' field, 'OData_BC_Oauth' is entered. Below it, the 'Linked service' dropdown is open, showing 'Select...', 'Filter...', and '+ New'. A red box highlights both the 'Name' field and the 'Linked service' dropdown.

Then, enter this information:

- Service URL [https://api.businesscentral.dynamics.com/v2.0/Your Directory \(tenant\) ID/Production/ODataV4/](https://api.businesscentral.dynamics.com/v2.0/Your Directory (tenant) ID/Production/ODataV4/)
- AAD Source <https://api.businesscentral.dynamics.com/>
- Tenant – Directory (tenant) ID from registered App
- Service principal ID – Application (client) ID from registered App
- Service principal key – Value from registered App

Click Create.

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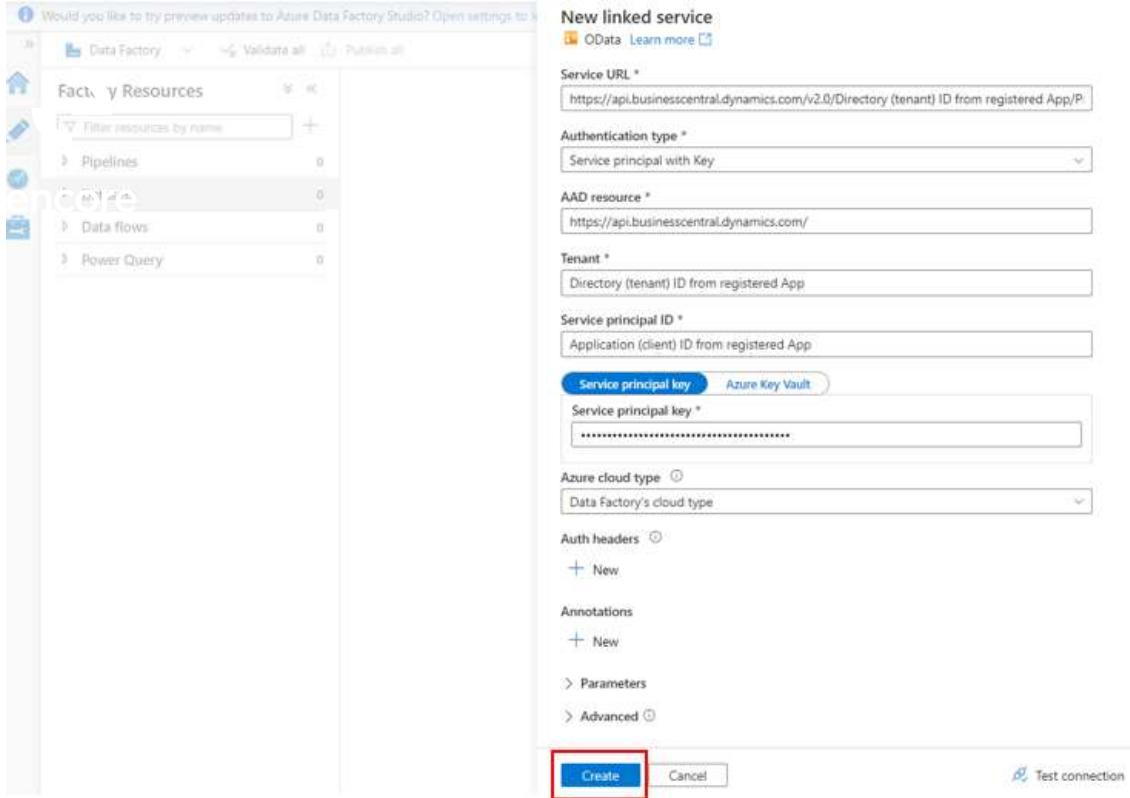
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Click OK.

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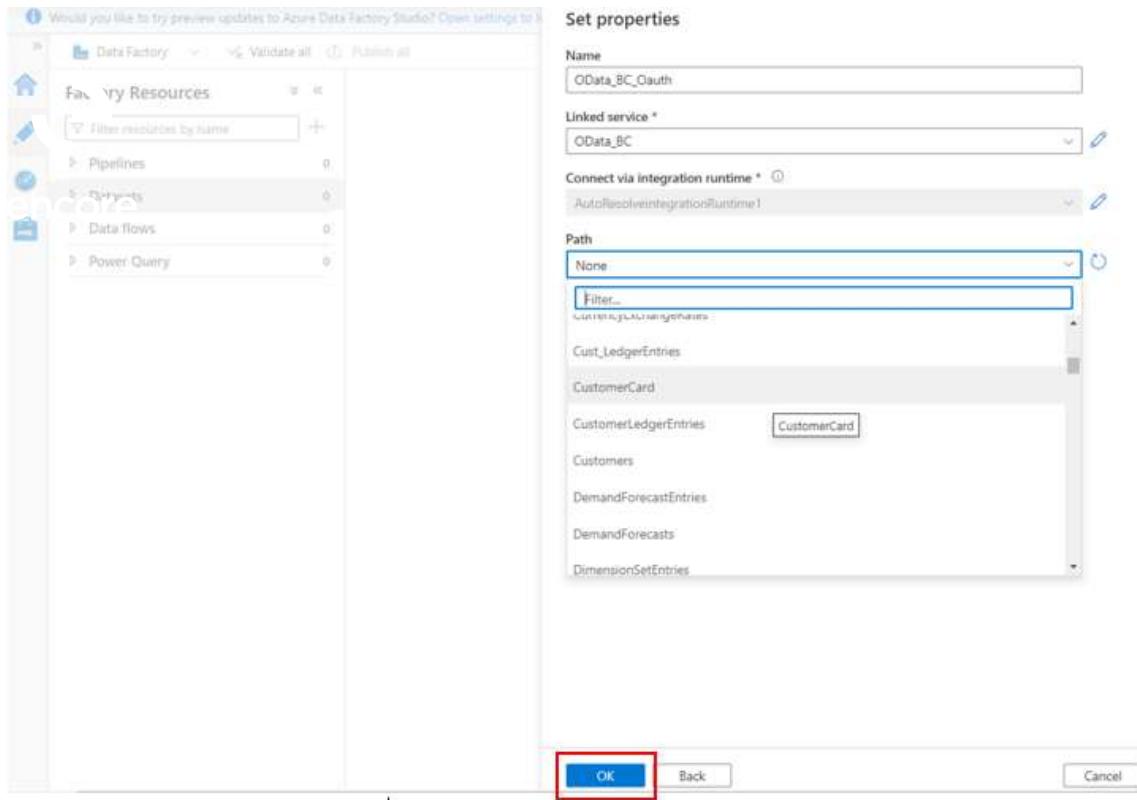
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Click Parameters tab. Create a new parameter.

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The screenshot shows the Microsoft Data Factory interface. In the top navigation bar, there are buttons for 'Data Factory', 'Validate all', and 'Publish all'. Below the navigation bar is the 'Factory Resources' pane, which includes sections for 'Iter resources by name', 'Pipelines' (0), 'Datasets' (1), and 'OData_BC_Oauth' (selected). Under 'Datasets', 'OData_BC_Oauth' is expanded. The main workspace shows an 'OData Resource' named 'OData_BC_Oauth'. At the bottom of the workspace, there is a tab bar with 'Connection' and 'Parameters' (which is highlighted with a red box). Below the tabs, there are buttons for 'New' and 'Delete', and a table for defining parameters. The first parameter is named 'Path', type 'String', and has a 'Default value' field.

Click the Connection tab. Select Edit and add the parameter as dynamic content.

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Would you like to try preview updates to Azure Data Factory Studio? Open settings to learn more and opt-in.

Data Factory Validate all PUBLISH all

Fac. ry Resources Filter resources by name

Pipelines 0 1 OData_JIC_Oauth

Data flows 0 1 OData_JC_Oauth

Power Query 0 1 OData_BC_Oauth

Connection Parameters

Linked service * OData_BC

Test connection Edit New Learn more

Integration runtime * AutoDiscoverLogon

Path:

Add dynamic content (Alt+Shift+F)

OK Cancel

The screenshot shows the Azure Data Factory studio interface. On the left, there's a sidebar with resource categories like Pipelines, Data flows, and Power Query. The main area shows a dataset named 'OData_JIC_Oauth'. A modal window titled 'Add dynamic content' is open, containing a text input field with the placeholder '@dataset().Path'. Below it is a 'Clear contents' button and a search bar labeled 'Filter system variables and functions...'. To the right of the modal, the 'Connection' tab of the 'OData_BC' linked service is visible, with tabs for 'Connection' and 'Parameters'. Under 'Connection', there are fields for 'Linked service', 'Test connection', 'Integration runtime', and a 'Path' dropdown. A red box highlights the 'Edit' button next to the linked service name. At the bottom of the modal are 'OK' and 'Cancel' buttons.

Enter value for the parameter and click OK. Your Company/name of entity.
Company('CRONUS%20Canada%2C%20Inc.)/ItemCard

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The screenshot shows the Power BI Data Factory blade. On the left, the 'Fact -> Resources' pane lists several datasets: 'OData_BC_Dept', 'OData Resource', 'OData BC_Auth', 'Company/CHCAUS20Canada%20%20in-VisCard', 'Car_Lev_A', and 'Power Query'. The 'OData BC_Auth' dataset is selected. In the main area, the 'Connections' tab is active, showing a dropdown for 'Linked service' set to 'OData BC' with a green checkmark indicating 'Connection successful'. Below it, the 'Integration runtime' dropdown is set to 'Default integration runtime' and the 'Path' field contains '@dataset(Auth)'. To the right, a modal dialog box titled 'Please provide actual value of the parameters to preview data' displays a table with one row for the parameter 'Path'. The 'Value' column shows the path '@dataset(Auth)' with a red box highlighting it. At the bottom of the dialog are 'OK' and 'Cancel' buttons, with 'OK' also highlighted by a red box.

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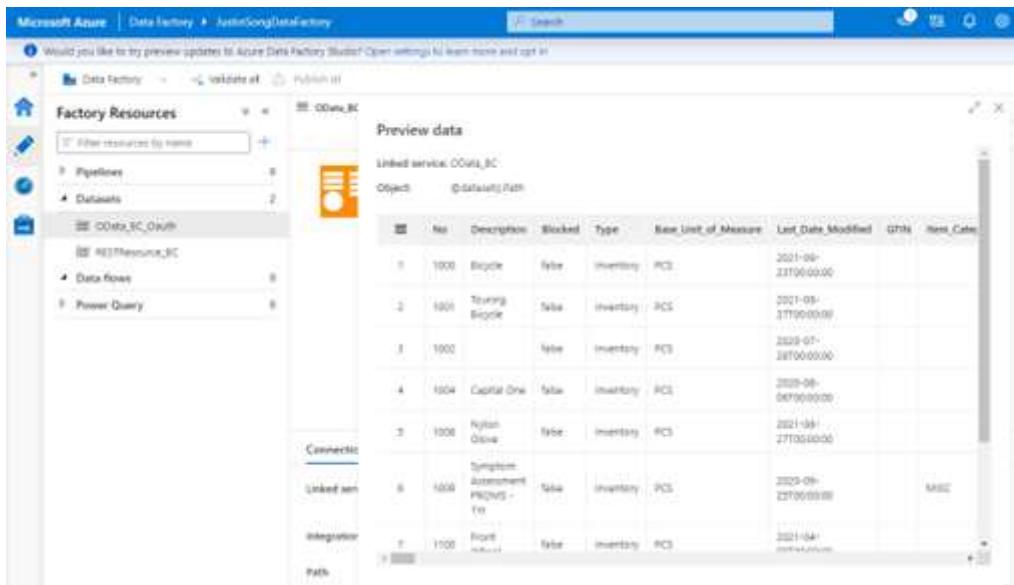
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If you need assistance with OAuth, data warehousing, reporting, or integrations with Dynamics 365, please [get in touch with us](#), we'd love to help.

Production BOMs in D365 Business Central

Best Practices for Production BOMs in Dynamics 365 Business Central

In this webinar, we'll cover setting up, managing, and best practices for production BOMs in D365 Business Central. Avoid common pitfalls and optimize your BOMs for real-world manufacturing scenarios.

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Categorized In: [Dynamics 365 Business Central](#),
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Justin Song

Justin is a highly qualified Senior Business Intelligence and Data Analyst who holds numerous professional certifications in accounting, business intelligence, project management, data, development and a wide range of technologies.

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April 23, 2025

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