

Business Central Configuration

Enzo Server and DataZen

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This document provides configuration instructions for Enzo Server and DataZen in order to connect to Business Central using OAuth 2.0 security.

Introduction

In order to configure access to Business Central Online using Enzo Server or DataZen you will need to create an Enterprise Application in your Azure Active Directory environment.

This document does not cover installation and configuration for an on-premise installation of Business Central. To connect to an on-premise version of Business Central, please contact the Enzo support team.

Setup Azure Active Directory

The first step needs to be performed by your IT Administrators with access to your Azure Active Directory (AAD) environment.

Microsoft instructions for creating and configuring access to an AAD Enterprise Application can be found here: https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/automation-apis-using-s2s-authentication

At a high level, you will need to:

- Create an Enterprise Application in AAD
- Give your Enterprise Application the necessary rights to access Business Central as documented by Microsoft

The API permissions page will include one of the following entries:

API / Permission name	Туре	Description
Dynamics 365 Business Central / Automation.ReadWrite.All	Application	Full access to automation
Dynamics 365 Business Central / API.ReadWrite.All	Application	Access to APIs and webservices

- Once the Enterprise Application has been created, save the Application ID of the application
- You will also obtain an application secret; save this information (needed further below)

Setup Business Central

Once your Enterprise Application has been created, you will need to add it and enable its access in the Business Central Applications management screen.

- Open Business Central on your browser and login
- Search for Azure Applications and click on the Azure Active Directory Applications link



Tell me what you want to do	\mathcal{Z} \times
azure application	
Go to Pages and Tasks	
> Azure Active Directory Applications	Administration

- Click on New to register the Enterprise Application previously created in AAD
- Paste the Application ID previously created into the **Client ID** field and add a **Description** (this will become the **User Name** of the application in Business Central)

Client ID	{cd782ff5-21bc-4f.
Description	EnzoUnified
State · · · · · · · · · · · · · · · · · · ·	Enabled

- Add the necessary permissions (optionally, select a Company to limit access)

User Permission Sets 🛛 🧚 New Line 🐄 Delete Line 🛛 🖶 Permissions

Pen	mission Set 1		Description	Company 1
→ CU	IST PAGE PERMISSION	1	Custom Page Permissions	CRONUS USA, Inc.
D3	65 AUTOMATION		Dynamics 365 Automation	CRONUS USA, Inc.
D3	65 FULL ACCESS		Dynamics 365 Full access	CRONUS USA, Inc.
EX	TEN. MGT ADMIN		Extension Management - Admin	CRONUS USA, Inc.
SU	PER (DATA)		Superuser of data	CRONUS USA, Inc.

- Click on the Admin Consent Grant link (if not already granted in Azure AD)
- Set the State to Enabled (a new Business Central User will be created automatically)

Configure Enzo Server

In order to access Business Central using SQL commands using Enzo Server you will need to take the following actions:

- Download the Business Central adapter from the Enzo Marketplace
- Create a Configuration Setting in Enzo that will provide the necessary connection information

Once the configuration settings are created, the Bearer Token will automatically be created and refreshed as needed by the Business Central adapter. These bearer tokens are stored encrypted in Enzo's internal database.



Download & Configure the Business Central Adapter

This step assumes that you have an Enzo Server configured and running on a Virtual Machine. If you have not yet setup an Enzo Server, please use one of the pre-configured images from the Azure or AWS Marketplace before proceeding.

For more information on how to obtain an pre-configured Enzo Server VM in Azure or AWS, please visit <u>https://www.enzounified.com/home/download</u>

Enzo Manager File Configuration	Start Enzo Manager , select the Enzo Server instance on the left, and select Tools -> Adapter Marketplace .
	Choose Business Central from the list of adapters, click Install, and follow the prompts to finalize the installation of the adapter. You can create a free 30-day license to try the Business Central adapter. WARNING: Once downloaded and installed, Enzo Server will be restarted.
Connect to Database Engine	Open SQL Server Management Studio (SSMS) and connect SSMS to Enzo Server directly (by default Enzo Server listens on localhost:9550) If this is the first time you connect to Enzo, note that Enzo emulates the SQL Server protocol, and as such SSMS can connect to it directly. The default password for the Enzo 'sa' account is password . This password can be modified using Enzo Manager .
nce connected to Enzo Server, run the _configCreate S ntral. See the section below for a sample command t	QL command to create a new configuration for Business hat creates a connection to the CRONUS company.



№ 500 Annyl All 1993 APRIADED Anst Andre 1993 APRIADED Anst (1993 APRIADED Anst (1993 APRIADED Anst (1993 APRIADED	Test the Business Central adapter by running this command:
2 Columbia > Find State > State	SELECT * FROM BSC.BusinessCentral.companies
SELECT * FROM ENZO BSC. BusinessCentral.companies EXEC ENZO BSC. BusinessCentral.companies EVEC ENZO BSC. BusinessCentral.ListCompanies EVEC ENZO BSC.BusinesSCentral.ListCompanies EVEC ENZO EVEC ENZO BSC.BusinesSCentral.Busin.ListCompanies EVEC ENZO BSC.BusinesSCentral.Busin.ListCompanies EVEC ENZO BSC.BusinesSCentral.Busin.ListCompanies EVEC ENZO BSC.BusinesSCentral.Busin.ListCompanies EVEC ENZO BSC.BusinesSCentral.BusinesBcentral.BusinesBcentral.BusinesBcentral.BusinesBcentral.BusinesBcenze EVEC ENZO BSC.BusinesBcentral.BusinesBcentral.BusinesBcen	The Bearer token will automatically be created using the information provided in the configuration settings.
O Guery security DEVLAPIOS/DEQ (15.0 EM) DEVLAPIOS/secogese (56) Destal.index* 000001 Treas 2 bady Ln1 Col1 AG AG<	

Configure the Enzo Business Central Adapter

Now that you have downloaded the Business Central adapter, you will need to configure it.

If you haven't used Enzo Server yet, know that Enzo is a built-in SQL Server Emulator that allows it to understand native SQL commands. As a result, you can connect to Enzo Server directly using SQL Server Management Studio (SSMS). All you need is the port on which Enzo is listening to, which is 9550 by default. In other words, SQL Server normally listens on port 1433, and Enzo normally listens on port 9550.

Start SSMS as if you wanted to connect to the local SQL Server instance, then follow these steps:

🖵 Connect to Databa	ase Engine	× On the L	ogin so [:] ying lo
	SQL Server	Use SQL	Serve
Server type:	Database Engine	× mode (w	nen co
Server name:	localhost,9550	possible	to con
Authentication:	SQL Server Authentication	~	
Login:	sa	The defa	ult pa
Password:	Password:		d . This
	Remember password	Manage	r
		- Internage	
	Connect Cancel Help Options	>>>	

On the Login screen, connect to Enzo Server directly by specifying **localhost,9550** as the Server Name.

Use **SQL Server Authentication** as the Authentication mode (when connected to Active Directory, it is possible to connect to Enzo using an AD Login).

The default password for the Enzo 'sa' account is **password**. This password can be modified using **Enzo Manager**.

Create or Update the BC Configuration Setting

The following command requires a few variables to be replaced:

- AAD_APP_ID: your Enterprise Application ID
- AAD_APP_SECRET: your Enterprise Application secret
- AAD_TENANT_ID: your Azure Tenant ID
- CRONUS_COMPANY_ID: the ID of the CRONUS business in Business Central (this value can be retrieved from your Business Central Administration screen online)





NOTE: To "update" an existing configuration, use the **_configUpdate** command instead.

Test Your Enzo Server Connection

Now that you have created the default connection setting in Enzo, you can run an SQL command. The Bearer token will be automatically created and refreshed as needed.





Configure DataZen

To configure DataZen to access Business Central, start by creating a new HTTP Connection, then follow the OAuth Wizard to access Business Central. These steps assumes you have a DataZen VM setup with a DataZen agent. The Enzo Server VM provided in the Azure and AWS Marketplace contains a link that allows you to also setup a DataZen server.

 DATAZEN MANAGER File Configuration View Help Agent Settings Options Central Connection Strings Refresh Speed Refresh Now 	Start the DataZen Manager application. <i>If a warning shows up with an option to upgrade to the</i> <i>latest release, proceed with the proposed upgrade.</i> Choose the desired DataZen agent on the left and select Configuration -> Central Connection Strings .
Central Connection Strings Use this screen to manage connection st + New C Edit X Delete Database Connection Big Data/NoSQL HTTP/S Endpoint Messaging Endpoint Drive Connection	From the Central Connection Strings screen, select New -> HTTP/S Endpoint. This will open another configuration screen to configure access to your Business Central endpoint.
HTTP Endpoint × Corfigure an HTTP/S Endpoint below used to fetch/push XML or ison data. • Friendly Name: conus (rame must be unique) HTTP Endpoint URI: https://api.buainesscentral.dynamics.com/v2.0/05135c5b-d7634a3c-a39-34! Authentication: Bearer > User Id: Bearer Token: Bearer Token: Send as Query String instead of HTTP Header Obtain QAsth Taken Encode secret using Base-64 Encoding Call rate limiting: Image: Image: Second v Allow bunting KB rate limiting: Image: Second v Allow bunting	Enter your Business Central HTTP/S Endpoint URI. When using the API endpoint, the URI should look like this (*): https://api.businesscentral.dynamics.com/v2.0/id/Production/api/v2.0 Replace id with your Company unique identifier GUID value. Choose the Bearer Authentication endpoint and click on the Obtain OAuth Token link.



 Enzo Unified - OAuth 2.0 Helper If the OAuth service is in the list below, you can select it to pre- Use a pre-configured OAuth setting BusinessCentral Bearer Token Settings Microsoft BusinessCentral uses Bearer and Refresh Tokens 	From the OAuth Wizard, select Microsoft Business Central Bearer Token Settings from the dropdown box. Click Next. Paste the previous Application ID for the client_id value field and click Next.
Exectivated - Outdot 20 Mages	Paste your Application Secret previously created in the secret field Replace <tenant id=""></tenant> from the OAuth Bearer Token URL with your Azure Tenant ID Click on Call Bearer Token Endpoint . Once you have obtained the Bearer Token, click Close.
HTTP Endpoint Corigue an HTTP/S Endpoint below used to fetch/push XML or Jaon data. Ferndly Name: corous (mame must be unque) HTTP Endpoint URI: thrs://pointuinesscentral.dynamics.com/v2.0/C 4 Athentication: Baser User Id: Baser Token: Call rate limiting: Success Allow bunsting Connection to target system successful. KB rate limiting: Torousediment Connection to target system successful. More bunsting	To test your connection, click on the Try Connection link. Click OK to save the HTTP Connection settings.

(*) To use an OData endpoint instead, your URI should look like this, where tenantId is your Azure Tenant ID: https://api.businesscentral.dynamics.com/v2.0/tenantid/Production/ODataV4/Company("CRONUS USA, Inc.")