



RUTINEBESKRIVELSE

Business Central kobling til
HeartBeat

20. februar 2024

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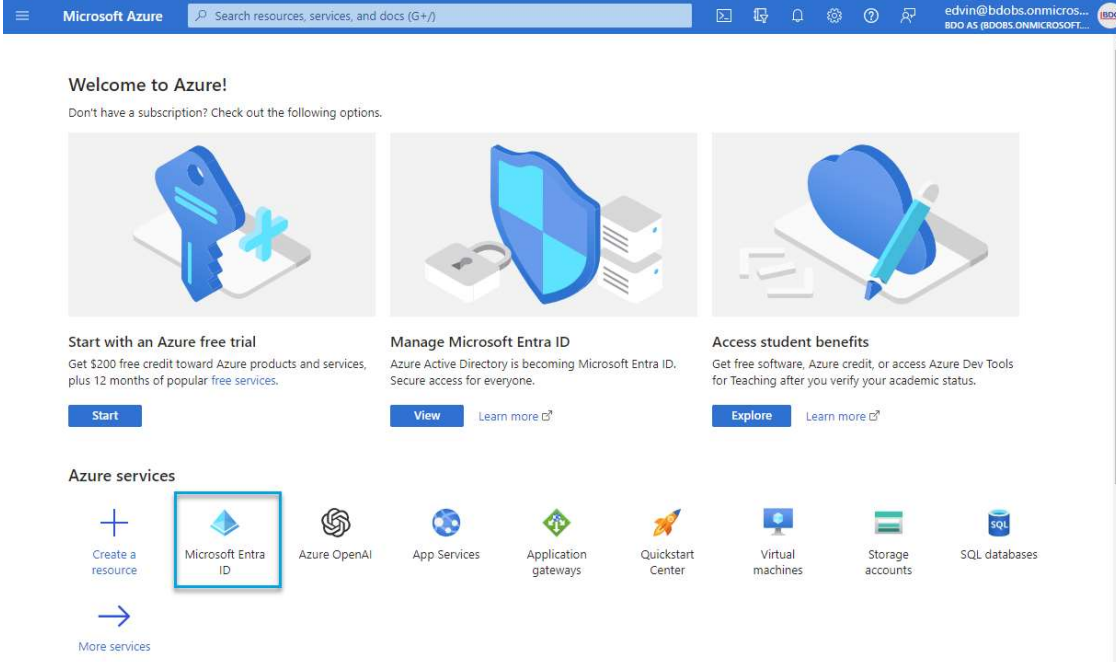
1 Oppsett Azure

For at HeartBeat skal kunne logge seg på Business Central og hente ut data, må det opprettes en programregistrering i Microsoft Entra ID (forhenværende Azure Active Directory)

1.1 Microsoft Entra ID

Gå til <https://portal.azure.com/> og logg inn.

1.1.1 App registrations




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


edvin@bdobs.onmicro... BDO AS (BDOBS ONMICROSOFT...)

Welcome to Azure!


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Get \$200 free credit toward Azure products and services, plus 12 months of popular free services.
[Start](#)



Manage Microsoft Entra ID
Azure Active Directory is becoming Microsoft Entra ID. Secure access for everyone.
[View](#) [Learn more](#)



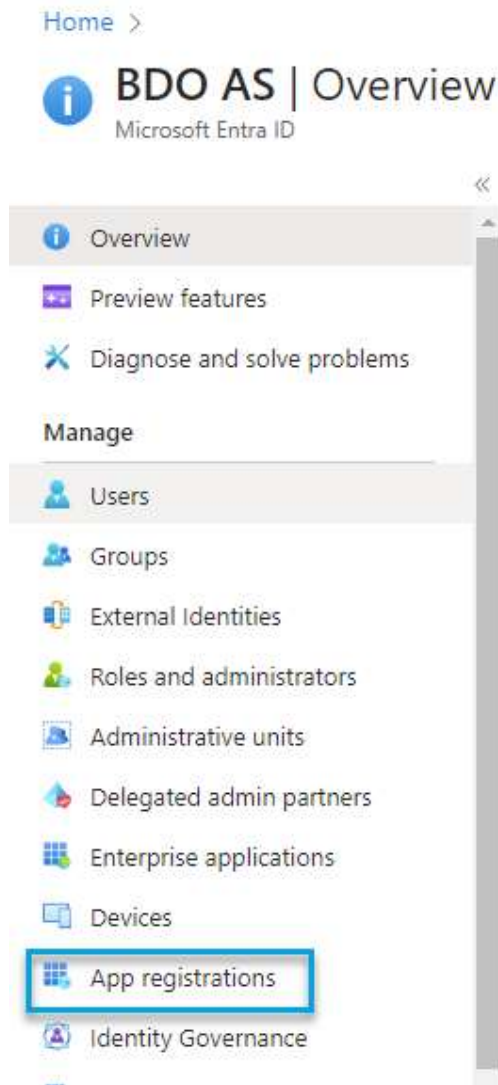
Access student benefits
Get free software, Azure credit, or access Azure Dev Tools for Teaching after you verify your academic status.
[Explore](#) [Learn more](#)

Azure services

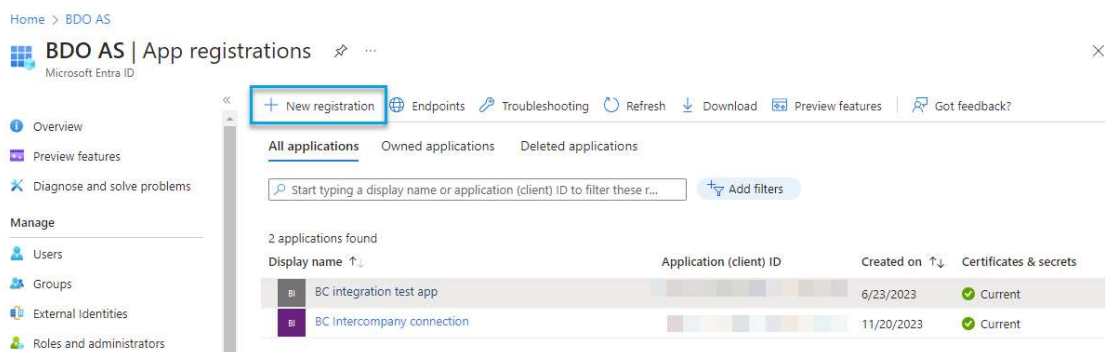
- Create a resource
- Microsoft Entra ID**
- Azure OpenAI
- App Services
- Application gateways
- Quickstart Center
- Virtual machines
- Storage accounts
- SQL databases

[More services](#)

Gå inn på «Microsoft Entra ID» og «App registrations»:



Trykk «+ New registration»



Fyll ut Name med «HeartBeat BC» og trykk registrer:

[Home](#) > [BDO AS | App registrations](#) >

Register an application ...

* Name

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

HeartBeat BC ✓

Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only (BDO AS only - Single tenant)
- Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
- Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- Personal Microsoft accounts only

[Help me choose...](#)

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

[Register](#)

Kopier “Application (client) ID” over I et document:

[Home](#) > [BDO AS | App registrations](#) >

HeartBeat BC ...

Search << Delete Endpoints Preview features

Overview

- Quickstart
- Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets
- Token configuration

Essentials

Display name
[HeartBeat BC](#)

Application (client) ID
[Redacted]

Object ID
[Redacted]

Directory (tenant) ID
[Redacted]

Supported account types
[My organization only](#)

Client credentials
[0_certificate_1_secret](#)

Redirect URIs
[Add a Redirect URI](#)

Application ID URI
[Add an Application ID URI](#)

Managed application in local directory
[HeartBeat BC](#)

Copy to clipboard

1.1.2 Client credentials

Under Client credentials trykk “Add a certificate or secret”:

Home > BDO AS | App registrations >

HeartBeat BC ⚙️ ⋮

Search << Delete Endpoints Preview features

Overview

- Quickstart
- Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets**
- Token configuration

Essentials

Display name
[HeartBeat BC](#)

Application (client) ID
[Redacted]

Object ID
[Redacted]

Directory (tenant) ID
[Redacted]

Supported account types
[My organization only](#)

Client credentials
[Add a certificate or secret](#)

Redirect URIs
[Add a Redirect URI](#)

Application ID URI
[Add an Application ID URI](#)

Managed application in local directory
[HeartBeat BC](#)

Trykk “+ New client secret”

HeartBeat BC | Certificates & secrets ⚙️ ⋮

Search << Got feedback?

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

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

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

[+ New client secret](#)

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

I Description fyll ut “API access key” og sett Expires til “730 days (24 months)”. Trykk deretter “Add”:

Add a client secret ✕

Description	<input type="text" value="API access key"/>
Expires	<input type="text" value="730 days (24 months)"/>

Kopier bade «Value» og «Secret ID» til et dokument:

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 application password.

+ New client secret

Description	Expires	Value ⓘ	Secret ID
API access key	12/12/2025		  

1.1.3 Redirect URIs

Trykk “Add a Redirect URI”:

Home > BDO AS | App registrations >

HeartBeat BC

Search << Delete Endpoints Preview features

- Overview
- Quickstart
- Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets
- Token configuration

Essentials

Display name
[HeartBeat BC](#)

Application (client) ID
[Colorful bar]

Object ID
[Colorful bar]

Directory (tenant) ID
[Colorful bar]

Supported account types
[My organization only](#)

Client credentials
[0 certificate, 1 secret](#)

Redirect URIs
[Add a Redirect URI](#)

Application ID URI
[Add an Application ID URI](#)

Managed application in local directory
[HeartBeat BC](#)

Trykk deretter på «+ Add a platform»

Home > BDO AS | App registrations > HeartBeat BC

HeartBeat BC | Authentication

Search << Got feedback? X

- Overview
- Quickstart
- Integration assistant

Manage

Platform configurations

Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

[+ Add a platform](#)

Velg «Web»

Configure platforms

Web applications

The screenshot shows two configuration options under the 'Web applications' section. The 'Web' option is highlighted with a blue border. It includes a globe icon, the title 'Web', and the description 'Build, host, and deploy a web server application. .NET, Java, Python'. The 'Single-page application' option includes a 'www' icon, the title 'Single-page application', and the description 'Configure browser client applications and progressive web applications. Javascript.'

Mobile and desktop applications

The screenshot shows three configuration options under the 'Mobile and desktop applications' section. The 'iOS / macOS' option includes an 'iOS / macOS' icon, the title 'iOS / macOS', and the description 'Objective-C, Swift, Xamarin'. The 'Android' option includes an Android robot icon, the title 'Android', and the description 'Java, Kotlin, Xamarin'. The 'Mobile and desktop applications' option includes a laptop icon, the title 'Mobile and desktop applications', and the description 'Windows, UWP, Console, IoT & Limited-entry Devices, Classic iOS + Android'.

Fyll ut Redirect URIs med: <https://businesscentral.dynamics.com/OAuthLanding.htm>

Huk av på «Access tokens» og «ID tokens», deretter «Configure»

1.1.4 API permissions

Tilganger til Business Central gis ved å trykke på «API permissions», «+ Add a permission»:

Home > BDO AS | App registrations > HeartBeat BC

HeartBeat BC | API permissions ✎ ⋮ ✕

Search « Refresh 🗨️ Got feedback?

- Overview
- Quickstart
- Integration assistant

Manage

- Branding & properties
- Authentication
- Certificates & secrets
- Token configuration
- API permissions**
- Expose an API
- App roles
- Owners
- Roles and administrators
- Manifest

i The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or 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. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for BDO AS

API / Permissions n...	Type	Description	Admin consent req...	Status
∨ Microsoft Graph (1) ⋮				
User.Read	Delegated	Sign in and read user...	No	✓ Granted for BDO AS ⋮

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).











Velg «Dynamics 365 Business Central»:

Request API permissions

Select an API

Microsoft APIs APIs my organization uses My APIs

Commonly used Microsoft APIs

 <p>Microsoft Graph Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Microsoft Entra ID, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.</p>		
 <p>Azure Data Explorer Perform ad-hoc queries on terabytes of data to build near real-time and complex analytics solutions</p>	 <p>Azure Data Lake Access to storage and compute for big data analytic scenarios</p>	 <p>Azure DevOps Integrate with Azure DevOps and Azure DevOps server</p>
 <p>Azure Key Vault Manage your key vaults as well as the keys, secrets, and certificates within your Key Vaults</p>	 <p>Azure Service Management Programmatic access to much of the functionality available through the Azure portal</p>	 <p>Azure Storage Secure, massively scalable object and data lake storage for unstructured and semi-structured data</p>
 <p>Dynamics 365 Business Central Programmatic access to data and functionality in Dynamics 365 Business Central</p>	 <p>Dynamics CRM Access the capabilities of CRM business software and ERP systems</p>	 <p>Intune Programmatic access to Intune data</p>

Trykk på «Application permissions»:

Request API permissions



< All APIs

 Dynamics 365 Business Central
<https://dynamics.microsoft.com/business-central/overview/> Docs 

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.

Deretter huk av for «API.ReadWrite.All»:

Select permissions

[expand all](#)

Permission	Admin consent required
<input type="text" value="Start typing a permission to filter these results"/>	
Other permissions	
<input type="checkbox"/> app_access ⓘ Access according to the application's permissions in Dynamics 365 Business Central	Yes
AdminCenter	
<input type="checkbox"/> AdminCenter.ReadWrite.All ⓘ Full access to Admin Center API	Yes
API (1)	
<input checked="" type="checkbox"/> API.ReadWrite.All ⓘ Full access to web services API	Yes
Automation	
<input type="checkbox"/> Automation.ReadWrite.All ⓘ Full access to automation	Yes


Add permissions

Discard

Fullfør med add permissions.


Hvis status viser «Not granted for XXX AS, må administrator gi tilgang:

[+ Add a permission](#) Grant admin consent for BDO AS

API / Permissions n...	Type	Description	Admin consent req...	Status
Dynamics 365 Busine:				
API.ReadWrite.All	Application	Full access to web se...	Yes	 Not granted for BDO AS

Slik skal det se ut:

[+ Add a permission](#) Grant admin consent for BDO AS

API / Permissions n...	Type	Description	Admin consent req...	Status
Dynamics 365 Busine:				
API.ReadWrite.All	Application	Full access to web se...	Yes	 Granted for BDO AS

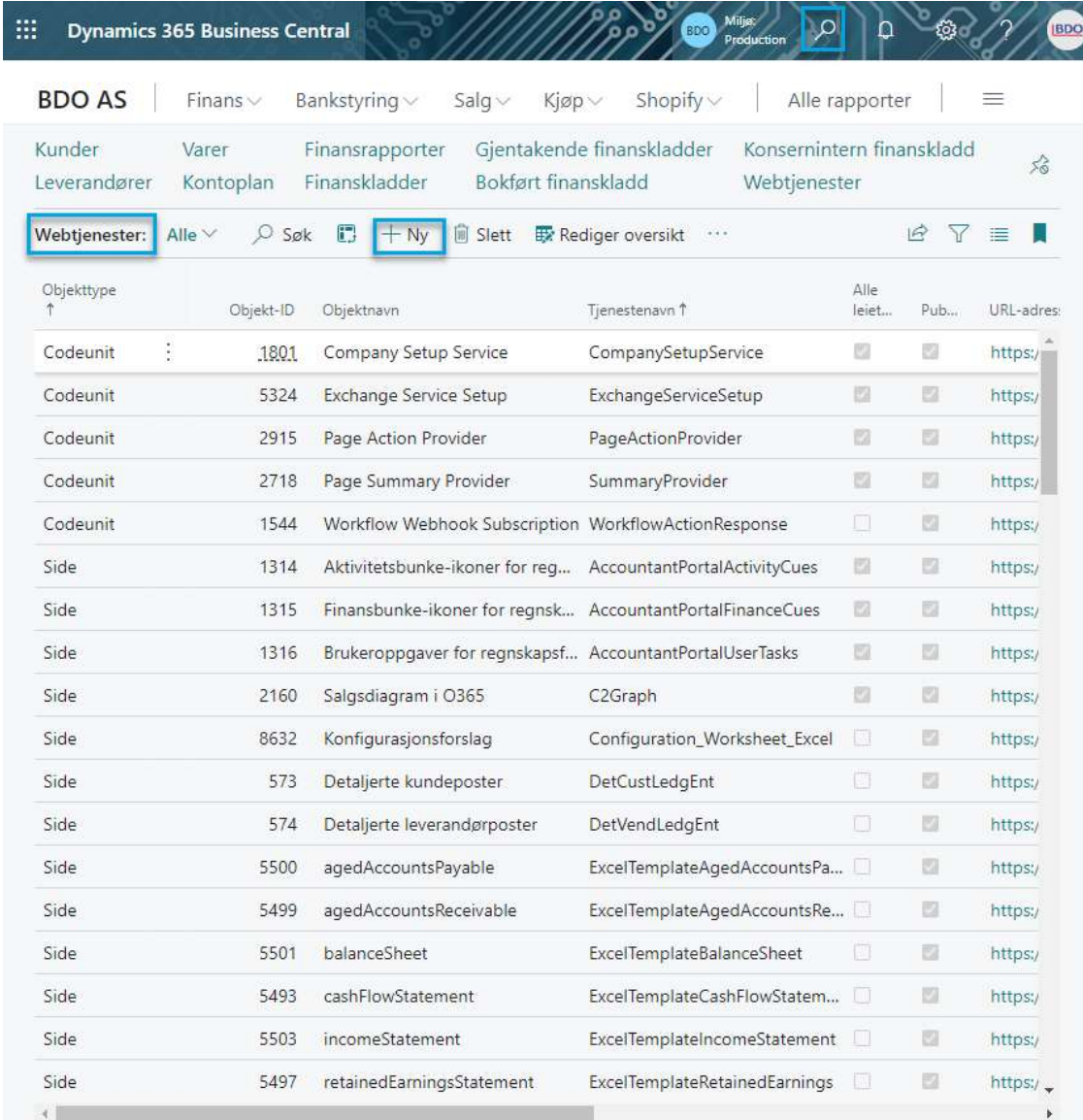
2 Oppsett Business Central

2.1 Webtjenester

HeartBeat trenger tilgang til flere tabeller enn det som er tilgjengeliggjort som standard. Disse tabellene deles via webtjenester. Dette gjør det mulig å benytte Odata til å hente ut informasjon fra tabellen

2.1.1 Opprette ny webtjeneste

Skriv inn «Webtjenester» i søkefeltet:



The screenshot shows the Dynamics 365 Business Central interface. At the top, there's a navigation bar with 'Dynamics 365 Business Central' and various icons. Below that, there's a breadcrumb trail: 'BDO AS' > 'Finans' > 'Bankstyring' > 'Salg' > 'Kjøp' > 'Shopify' > 'Alle rapporter'. The main content area shows a list of 'Webtjenester' (Web Services). The '+ Ny' button is highlighted with a red box. The table below lists various web services with columns for Object Type, Object ID, Object Name, Service Name, and URL.

Objekttype ↑	Objekt-ID	Objektnavn	Tjenestenavn ↑	Alle leiet...	Pub...	URL-adres...
Codeunit	1801	Company Setup Service	CompanySetupService	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Codeunit	5324	Exchange Service Setup	ExchangeServiceSetup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Codeunit	2915	Page Action Provider	PageActionProvider	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Codeunit	2718	Page Summary Provider	SummaryProvider	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Codeunit	1544	Workflow Webhook Subscription	WorkflowActionResponse	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	1314	Aktivitetsbunke-ikoner for reg...	AccountantPortalActivityCues	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	1315	Finansbunke-ikoner for regnsk...	AccountantPortalFinanceCues	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	1316	Brukeroppgaver for regnskapsf...	AccountantPortalUserTasks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	2160	Salgsdiagram i O365	C2Graph	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	8632	Konfigurasjonsforslag	Configuration_Worksheet_Excel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	573	Detaljerte kundeposter	DetCustLedgEnt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	574	Detaljerte leverandørposter	DetVendLedgEnt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5500	agedAccountsPayable	ExcelTemplateAgedAccountsPa...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5499	agedAccountsReceivable	ExcelTemplateAgedAccountsRe...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5501	balanceSheet	ExcelTemplateBalanceSheet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5493	cashFlowStatement	ExcelTemplateCashFlowStatem...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5503	incomeStatement	ExcelTemplateIncomeStatement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://
Side	5497	retainedEarningsStatement	ExcelTemplateRetainedEarnings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	https://

Trykk «+Ny»:

Webtjenester Ikke lagret

× Hvis du vil konfigurere en OData-tilkobling, bør du vurdere å bruke en ... Ikke vis ... | API-dokumen... ▾

Søk + Ny Rediger oversikt Slett Last inn på nytt ...

Objekttype ↑	Objekt-ID	Objektnavn	Tjenestenavn ↑	Alle leiet...	Pub...	URL
Spørring	58	Finansbudsjettetert beløp for Po...	Power BI GL BudgetedAmount	<input type="checkbox"/>		
Spørring	52	Varekjøpsliste for Power BI	Power BI Item Purchase List	<input type="checkbox"/>		
Spørring	57	Varesalgliste for Power BI	Power BI Item Sales List	<input type="checkbox"/>		
Spørring	54	Prosjektliste for Power BI	Power BI Jobs List	<input type="checkbox"/>		
Spørring	64	Hdr. leverandørpost for Power ...	Power BI Purchase Hdr. Vendor	<input type="checkbox"/>		
Spørring	56	Kjøpsliste for Power BI	Power BI Purchase List	<input type="checkbox"/>		
Spørring	60	Hovedkundepost for Power BI-...	Power BI Sales Hdr. Cust.	<input type="checkbox"/>		
Spørring	55	Salgsliste for Power BI	Power BI Sales List	<input type="checkbox"/>		
Spørring	59	Oversikt over topp kunde-post...	Power BI Top Cust. Overview	<input type="checkbox"/>		
Spørring	65	Leverandørvareposter	Power BI Vend. Item Ledg. Ent.	<input type="checkbox"/>		
Spørring	63	Power BI-leverandørposter	Power BI Vendor Ledger Entries	<input type="checkbox"/>		
Spørring	51	Leverandørliste for Power BI	Power BI Vendor List	<input type="checkbox"/>		
Spørring	269	Ressursposter	Res.LedgerEntries	<input type="checkbox"/>		
Spørring	101	Instrumentbord for salg	SalesDashboard	<input checked="" type="checkbox"/>		
Spørring	105	Salgsmuligheter	SalesOpportunities	<input checked="" type="checkbox"/>		
Spørring	104	Ordrer etter selger	SalesOrdersBySalesPerson	<input checked="" type="checkbox"/>		
Spørring	106	Segmentlinjer	SegmentLines	<input type="checkbox"/>		
Spørring	100	Oversikt over toppkunder	TopCustomerOverview	<input checked="" type="checkbox"/>		
Spørring	266	Verdiposter	ValueEntries	<input type="checkbox"/>		
→ Side ▾	0					
Spørring	263	Leverandørposter	VendorLedgerEntries	<input type="checkbox"/>		

Velg Objekttype «Side» og skriv inn «472» som Objekt-ID. Dette vil populere feltet Objektnavn:

Webtjenester ✓ Lagret

Søk + Ny Rediger oversikt Slett Last inn på nytt ...

Objekttype ↑	Objekt-ID	Objektnavn	Tjenestenavn ↑	Alle leiet...	Pub...	URL
Side	1170	Brukeroppgaver	UserTaskSetComplete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Side	40	Varekladder	Varekladder_Excel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
→ Side ▾	472	Mva-bokføringsoppsett	VATpostingSetup	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Side	6408	workflowCustomers	workflowCustomers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Fyll så inn «VATpostingSetup» i Tjenestenavn og huk av for Publisert:



Gjenta prosessen ved å trykke «+Ny»:

Webtjenester ✓ Lagret

Søk + Ny Rediger oversikt Slett Last inn på nytt

Objekttype ↑	Objekt-ID	Objektnavn	Tjenestenavn ↑	Alle leiet...	Pub...	URL
Side	6405	Purchase Document Line Entity	purchaseDocumentLines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Side	6404	workflowPurchaseDocuments	purchaseDocuments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
→ Side	10677	Finanskontotilordning	SAFTGLAccMapping	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Side	6403	Sales Document Line Entity	salesDocumentLines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Objekttype «Side», Objekt-ID «10677» og Tjenestenavn «SAFTGLAccMapping», huk av for Publisert.

Objekttype «Side», Objekt-ID «573» og Tjenestenavn «DetCustLedgEnt», huk av for Publisert.

Objekttype «Side», Objekt-ID «574» og Tjenestenavn «DetVendLedgEnt», huk av for Publisert.

Webtjenester: Alle Søk + Ny Slett Rediger oversikt Last inn på nytt

Objekttype ↑	Objekt-ID	Objektnavn	Tjenestenavn ↑	Alle leiet...	Pub...
Side	8632	Konfigurasjonsforslag	Configuration_Worksheet_Excel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Side	573	Detaljerte kundeposter	DetCustLedgEnt	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Side	574	Detaljerte leverandørposter	DetVendLedgEnt	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.1.2 Publisere webtjenester

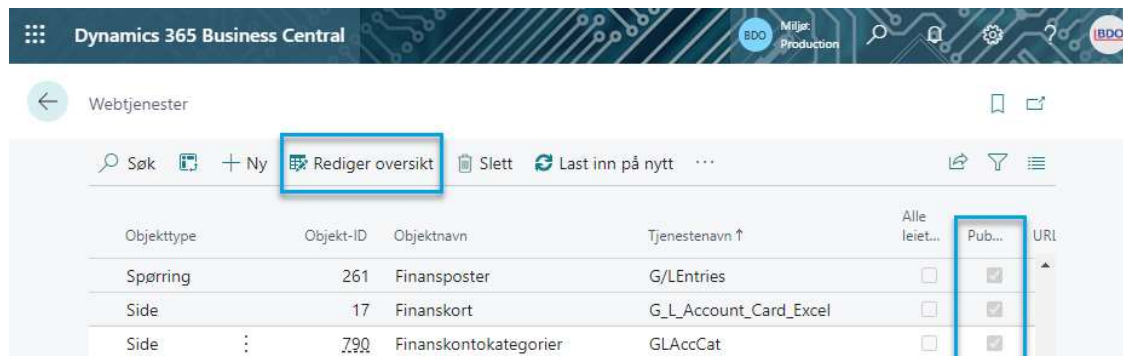
Naviger til Webtjenester slik som i 2.1.1 og sjekk om følgende objekter er publisert:

Objekttype «Spørring», Objekt-ID «260» og Tjenestenavn «DimensionSetEntries»

Objekttype «Spørring», Objekt-ID «261» og Tjenestenavn «G/LEntries»

Objekttype «Spørring», Objekt-ID «262» og Tjenestenavn «Cust.LedgerEntries»

Objekttype «Spørring», Objekt-ID «263» og Tjenestenavn «VendorLedgerEntries»
 Objekttype «Spørring», Objekt-ID «264» og Tjenestenavn «BankAccountLedgerEntries»
 Hvis disse ikke har huket av for publiser, trykk «Rediger oversikt»:

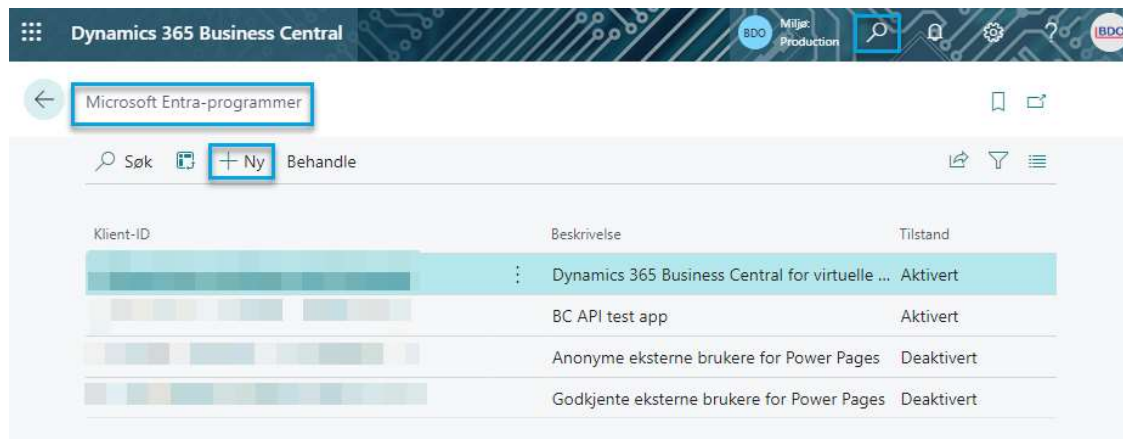


Deretter huk av for de nevnte objektene.






2.2 Microsoft Entra-programmer

Programregistreringen som ble gjennomført i Azure, må nå aktiveres i Business Central. Dette gjøres for å få riktig tilgangsstyring.



Søk etter Microsoft Entra-programmer i søkefeltet:




Trykk «+Ny»

Microsoft Entra-programkort     ✓ Lagret 

HeartBeat

 Gi samtykke | Automatiser  Færre alternativer

Generelt

Klient-ID	<input type="text" value="{9f98274b-153d-41d9-a82e-920"/>	Extension	
Beskrivelse	<input type="text" value="HeartBeat"/>	App-ID	<input type="text" value="{00000000-0000-0000-0000 ..."/>
Tilstand	<input type="text" value="Deaktivert"/> 	Appnavn	<input type="text"/>
Kontaktopplysninger ...	<input type="text"/>	User information	
		Bruker-ID	<input type="text" value="{00000000-0000-0000-0000-0..."/>
		Brukernavn	<input type="text"/>

Lim in “Application (client) ID” fra avsnitt *1.1 Microsoft Entra ID* i “Klient-ID” og fyll inn «HeartBeat» i «Beskrivelse. Deretter trykk «Gi samtykke»:

Hvis følgende skjer:



edvin@bdobs.onmicrosoft.com

Trenger administratorgodkjenning

trenger tillatelse for å få tilgang til ressurser i organisasjonen din som bare en administrator kan godkjenne. Be en administrator om å gi tillatelse til dette programmet før du kan bruke det.

[Har du administratorkonto? Logg på med der kontoer](#)

[Gå tilbake til programmet uten å gi samtykke](#)

Kontakt administrator for godkjenning

Etter samtykke er gitt, så kan «Tilstand» endres til «Aktivert»:

Microsoft Entra-programkort ✓ Lagret

HeartBeat

✦ Gi samtykke | Automatiser ∨ Færre alternativer

Generelt

Klient-ID {9f98274b-153d-41d9-a82e-9...	Extension
Beskrivelse HeartBeat	App-ID {00000000-0000-0000-0000-0...
Tilstand Aktivert ∨	Appnavn
Kontaktopplysninger ...	User information
	Bruker-ID {fb6876d8-7274-4ed9-ac3a-9...
	Brukernavn HEARTBEAT

Du må sette feltet Tilstand til Deaktivert før du kan gjøre ...

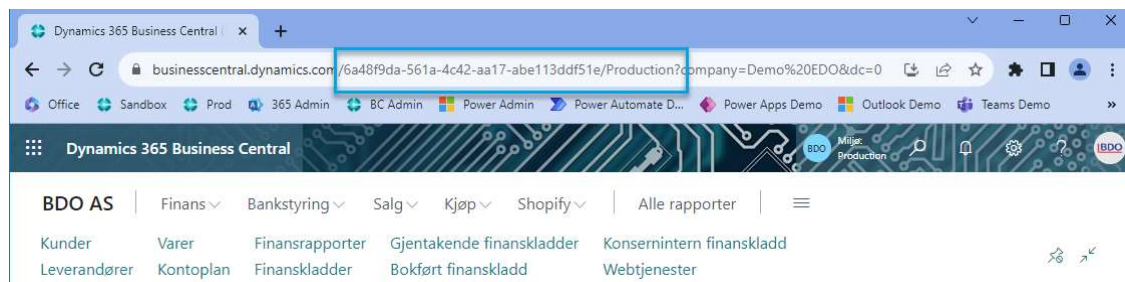
Brukertillatelsessett Nyttige ikoner

Tillatelsessett ↑	Beskrivelse	Selskap ↑	Navn på utvidelse	Tillatelsesomfang
→ D365 READ	Dyn. 365 Lesetill...		Base Application	System

Deretter legges «Tilatelsessett» «D365 READ» til.

2.3 Tenant- og Enviroment-id

Gå inn i nettleser, og åpne opp forsiden på Business Central. Hvis man står i rollesenteret skal url se slik ut:



Det merkede området inneholder tenant- og enviroment-id. Kopier disse inn i filen som inneholder Client-id fra avsnitt *1.1.2 Client credentials*

2.3.1 Oversendelse til BDO

Filen med ulike id'er skal se nogenlunde slik ut:

