

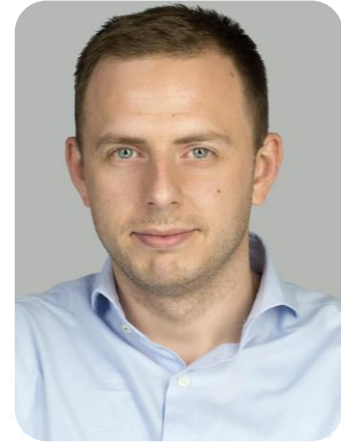
# Expert Session - Telemetry Masterclass



## Introducing Milan and Renato



- Software Engineer @ Factorial
- Speaker at various conference



- Business Central and Power Platform consultant @ Derecjun
- MVP & MCT

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Fill this Survey in and receive your digital certificate and badge: <https://tinyurl.com/ybe98dmt>

# Agenda

Introduction to Telemetry

How to setup application insights and enable Telemetry

Kusto Query Language

Creating custom telemetry signals

Power BI Application for Telemetry

Telemetry costs and limitation

# How many of you are using telemetry today?

# Telemetry – let's start

Various activities and operations are tracked, and data are sent to **application insights**

Query your data with **KQL** or just analyse data with prebuilt **Power BI** Apps

**Azure Data Explorer**, **Kusto.Explorer**

Available for cloud and on-premises deployment

# Why do we need telemetry?

Diagnose problems and errors that affect customer environment, but also to prevent errors

Optimize performance of the system

Understand how and what features customers are using

Telemetry is for everyone!

# Event IDs

Event IDs are used to identify various system behaviour

Application  
Events  
AL\*\*\*\*

Client  
Events  
CL\*\*\*\*

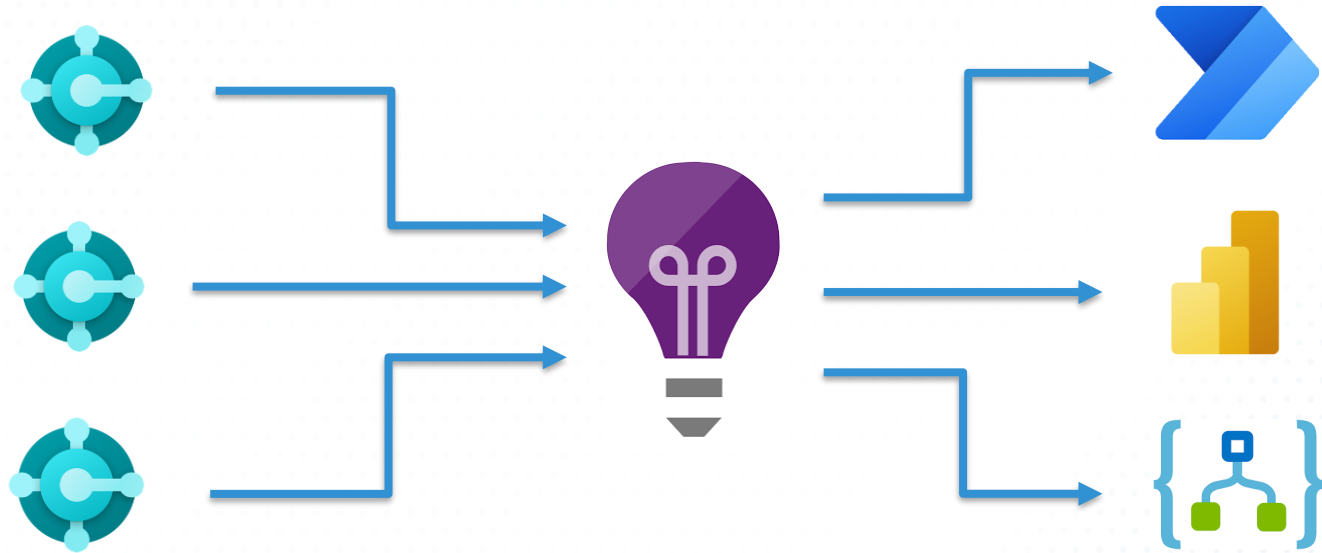
Lifecycle  
Events  
LC\*\*\*\*

Runtime  
Event  
RT\*\*\*\*





# Application Insights



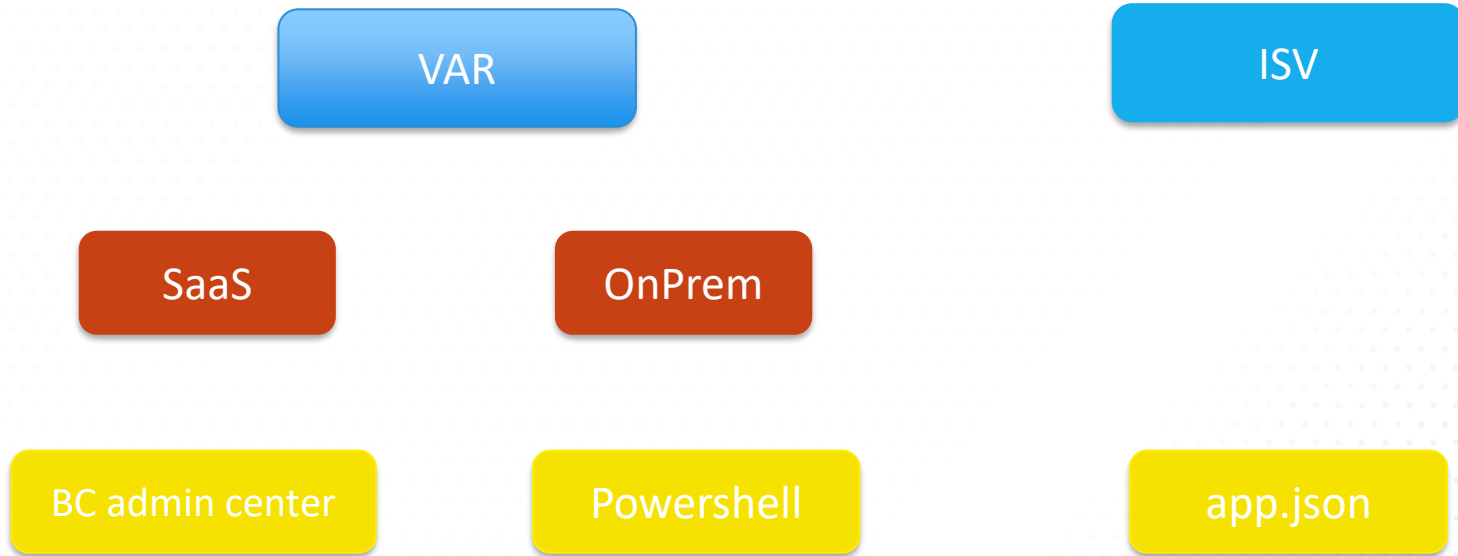
# Application Insights

- Azure Monitor
- Application performance management and monitoring
- dashboards, queries, alerts
- Used for all kind of web apps

# DEMO

## Setup Application Insights

# Enabling in BC



# DEMO

## Connect Application insights with BC



# KQL

- Used to query data from Application Insights
- Blazingly fast on big data sets
- Data visualization

# KQL vs SQL

KQL	SQL
table	SELECT * FROM TABLE
where	WHERE
summarize	GROUP BY
order by	ORDER BY
count(), sum(), avg(), min(), max(),...	COUNT, SUM, AVG, MIN, MAX, ...

# DEMO

Analyze data with KQL & create dashboards



# Custom telemetry

- Custom metrics
- Privacy
- Session.LogMessage

# DEMO

## Custom telemetry

# Feature telemetry

- Part of the System App
- Track features
- Advanced filtering

LogUsage

LogError

LogUptake

# Feature telemetry - LogUptake

- Feature Uptake Status

Discovered

Set up

Used

Undiscovered

# DEMO

## Feature telemetry

# Power BI Dashboards

Predefined reports to track  
Business Central telemetry  
Separate app for ISV  
Power BI Pro license

All results



## Dynamics 365 Business Central Usage Analytics

Microsoft



Power BI apps

Visualize aspects of Business Central usage: user traffic, errors, performance, and administration.

★ 5.0 (22 ratings)

Free

Get it now



## Dynamics 365 Business Central App Usage...

Microsoft



Power BI apps

Visualize Business Central app usage: user traffic, errors, performance, and administration.

★ 5.0 (4 ratings)

Free

Get it now



365

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Connect your Business Central app to Power BI.

★ 5.0

Free

G

# Dynamics 365 Business Central Usage Analytics

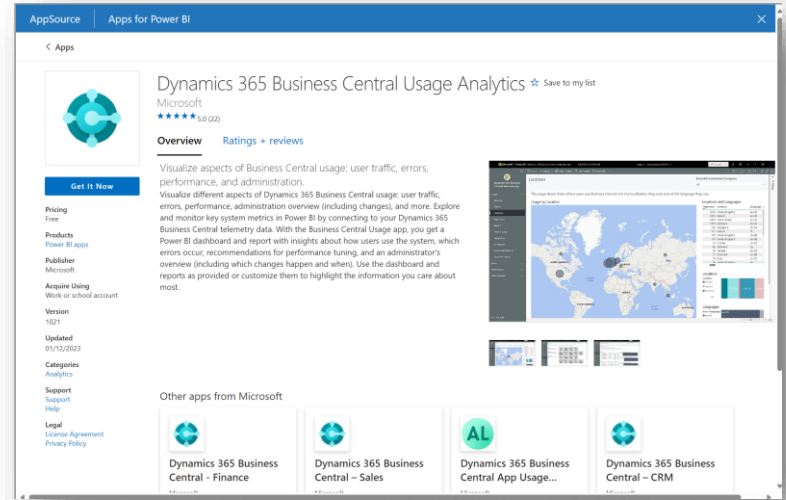
Simple to install and  
analyze BC Telemetry

Usage

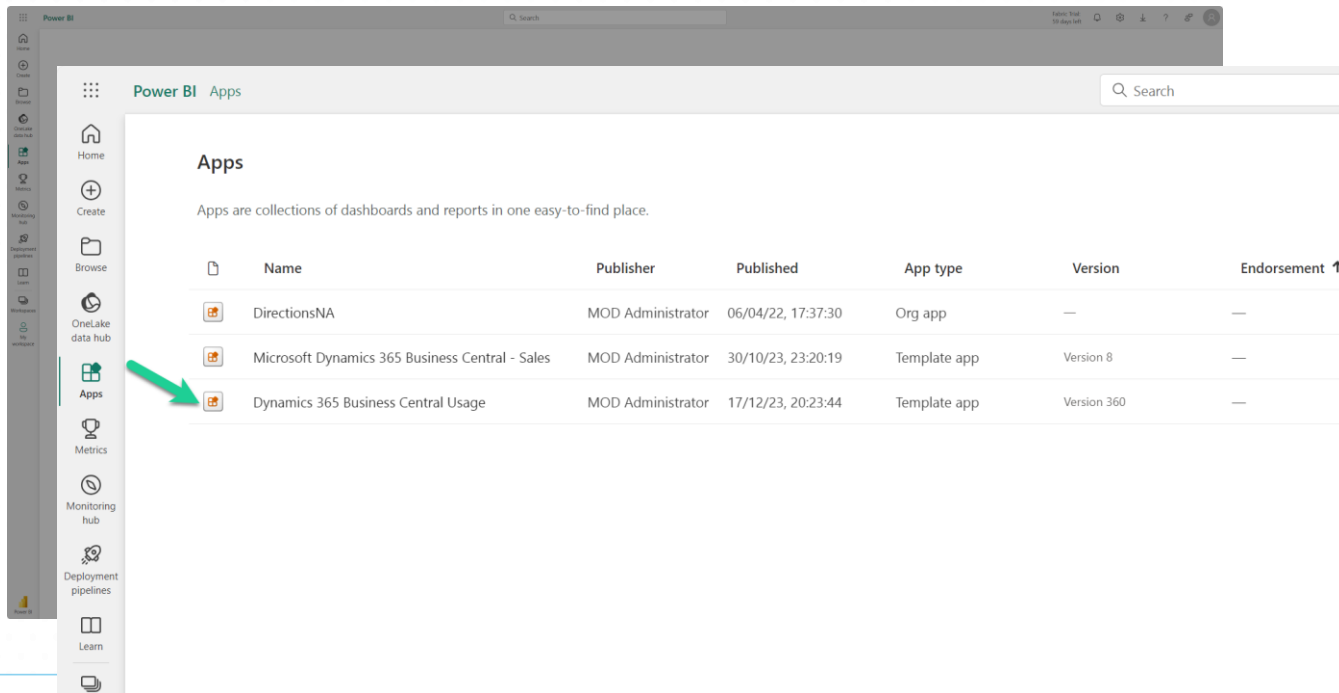
Performance

Error

Administration



# Power BI Usage Analytics Installation



The screenshot shows the Power BI web interface. On the left is a navigation pane with icons for Home, Create, Browse, OneLake data hub, Apps, Metrics, Monitoring hub, Deployment pipelines, and Learn. The 'Apps' icon is highlighted with a green arrow. The main area is titled 'Apps' and contains a table of installed applications.

Apps are collections of dashboards and reports in one easy-to-find place.

	Name	Publisher	Published	App type	Version	Endorsement ↑
	DirectionsNA	MOD Administrator	06/04/22, 17:37:30	Org app	—	—
	Microsoft Dynamics 365 Business Central - Sales	MOD Administrator	30/10/23, 23:20:19	Template app	Version 8	—
	Dynamics 365 Business Central Usage	MOD Administrator	17/12/23, 20:23:44	Template app	Version 360	—



# Power BI Usage Analytics Configuration

The screenshot displays the Power BI Usage Analytics interface. A modal dialog titled "Connect to Dynamics 365 Business Central Usage" is open, showing the connection URL and authentication options. The background interface includes a sidebar with navigation options like "Usage", "DAU / WAU / MAU", and "Sessions". The main content area shows a report titled "Daily / Weekly / Monthly Users (also known as DAU / WAU / MAU)" with a table of current users and a line chart showing usage over time.

**Connect to Dynamics 365 Business Central Usage**

You are connecting to  
Use  
<https://api.applicationinsights.io/v1/apps/bf6b6b6b-6b6b-6b6b-6b6b-6b6b6b6b6b6b>

Authentication method  
OAuth2

Privacy level setting for this data source [Learn more](#)  
Private

[Go to the app documentation](#) [Back](#) [Sign in and connect](#) [Cancel](#)

**Daily / Weekly / Monthly Users (also known as DAU / WAU / MAU)**

Tenant/Environment/Company  
All

This page shows daily / weekly / monthly users (based on when the report dataset was last refreshed). Note that this is based on the user\_id field in the telemetry data. Note that there is currently no way from telemetry to get the user's name. Also, based on the user telemetry id, these numbers are not accurate. Also, these numbers are not accurate.

Current DAU/WAU/MAU date  
20 Oct 2023

Users (DAU)	Current Weekly Users (WAU)	Current Monthly Users (MAU)
1	3	15
2	2	4
4	4	4
2	3	3
2	2	3
2	2	2

**Current DAU/WAU/MAU by Environment**

Domain	Tenant id (AAD/Envi...
	a55dccc6-7931-4...
	a731cad4-05cb-4...
	1633d4a2-6d53-4...
	bcf98e8d-7fa1-4...
	8c3016f2-75fe-4...

**DAU / WAU / MAU by date (across all environments)**

● Daily Users (DAU) ● Weekly Users (WAU) ● Monthly Users (MAU)

350  
300  
250

# DEMO

Let's explore Power BI Application for  
Telemetry

# Telemetry costs

- 90 days retention policy
- Free insertion of 5 GB per month
- Daily cap
- Data Collection rules

# DEMO

## Cost Control

# Questions?



