

Bemutatókozás

FITS Magyarország Kft.

10+ év

100+ év tapasztalat Navision , Dynamics NAV , Business Central területen

Egyetemi képzések (Business Central / Navision)

Napirend

- Lokalizáció telepítése – rövid áttekintés
- Teljesítmény optimalizálás – BC SAAS (és *onprem*)
- Admin portál lehetőségek – Automatizálás(?)
- PowerBI adat kapcsolódások

Lokalizáció telepítése SAAS környezetben

- Két csomag telepítése szükséges – lokalizáció és fordítás
 - Lokalizáció „/?aid=FIN&page=2503&filter=%27ID%27%20IS%20%274c259f69-0f85-4321-8e90-51268a354040%27&signInRedirected=1”
 - Fordítás „/?aid=FIN&page=2503&filter=%27ID%27%20IS%20%2737b6fbae-3ce4-4206-944d-f6625b28a72e%27&signInRedirected=1”



The screenshot shows the Dynamics 365 Business Central interface. The browser address bar contains the URL: `businesscentral.dynamics.com/6bea1ef2-450d-4d02-8af1-4a25a52999aa/PreviewV17UK?company=CRONUS%20UK%20Ltd.&node=0000233e-0e3f-0000-0c4f-e400836bd2d2&page=1801&dc=0&bookmark=12%3bCwcAAACH...`. The 'company' parameter is highlighted in yellow. Red arrows point from the text above to the 'company' parameter in the URL and the 'Set up your company' link in the left navigation pane.

The 'Environments' table on the right shows the following data:

Name	Application Family	Type	State	Country/region
prod	Business Central	Production	Active	HU
Production	Business Central	Production	Active	HU
HRPDEMOSandbox	Business Central	Sandbox	Active	HU
PreviewV17UK	Business Central	Sandbox	Active	HU
Sandbox	Business Central	Sandbox	Active	HU

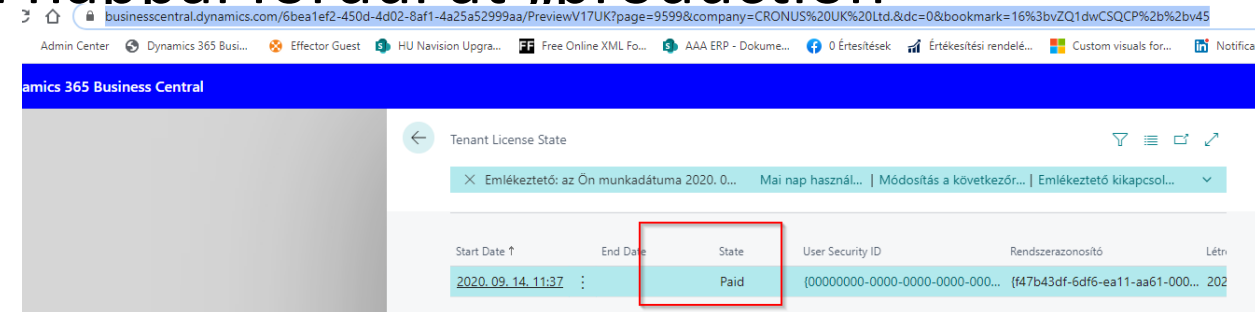
- Csak HU adatbázisra megy fel!!

Teljesítmény

- Nem evidens milyen „vas” – kapacitás van alattunk
- Nem látjuk a szerveret
- Mi van , ha nincs lassú ? Kihez fordulok
- Honnan tudom, hogy miért lassú?

Új Tenant

- Alap tenant létrehozása „trial” módban történik -> teljesítmény csökkentett mód
- Ügyfél licenz hozzárendelés után 1 nappal fordul át „production” instanceba
- Ellenőrizhető ?table=2000000189

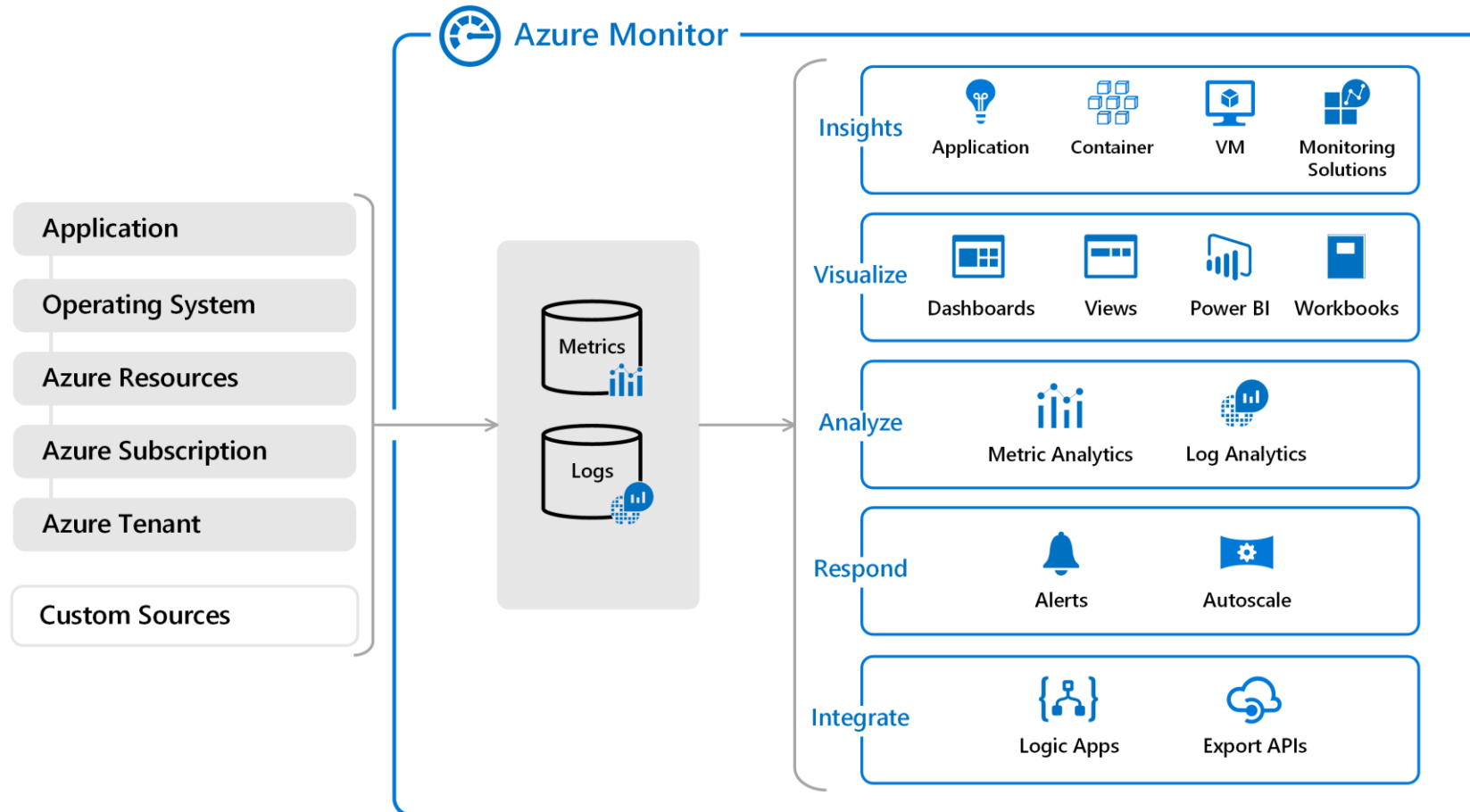


Start Date ↑	End Date	State	User Security ID	Rendszerezonosító	Létn
2020.09.14.11:37	:	Paid	{00000000-0000-0000-0000-000...	{f47b43df-6df6-ea11-aa61-000...	202

- Ticketben kérhető a felskálázás – HRP
- *Migráció – company-nként*

Diagnosztika és riasztások
(application insights)
„Ki segít – Te magadon..”

What is Azure Monitor (Application Insights)?



Main use cases for Business Central partners



Setup



Monitor



Troubleshoot



Mitigate

Characteristics of partner telemetry



Treated as an API



Discoverable in
docs



Documented in
docs



Actionable
(if possible)

Filter by title

> Get Started

> Deployment

> Administration

> Online

Administration of Business Central

Online

Get Started as a Reseller of Business

Central Online

Integrated Administrator Access to

Business Central Online

Running Demo Environments

Running Test Environments

Running Technical Support

Monitoring and Analyzing Telemetry

Overview

Analyzing Authorization Telemetry

Analyzing Long Running SQL

Queries Telemetry

Administration Center

> Automation

Monitoring and Analyzing Telemetry

11/15/2019 • 2 minutes to read •

Business Central emits telemetry data for various activities and operations on tenants. Whether running Business Central Online or On-premises, you can set up your tenants to send telemetry to Application Insights. Application Insights is a service hosted within Azure that gathers telemetry data for analysis and presentation. For more information, see [What is Application Insights?](#)

Monitoring telemetry gives you a look at the activities and general health of your tenants, helping you diagnose problems and analyze operations that affect performance.

Available Telemetry

Currently, Business Central offers telemetry on the following operations:

Operation	Description	Online/On-premises	See more
Authorization	Provides information about user sign-in attempts, including success or failure indication, reason for failure, user type, and more.	Online	Analyzing Authentication Telemetry
Long Running Operation (SQL Query)	Provides information about SQL queries that take longer than expected to execute.	Both	Analyzing Long Running Operation (SQL Query) Telemetry

Landing page
in docs
aka.ms/bctelemetry

To get telemetry, you need to do two things

1. Create an Application Insights resource in Azure
 - A. Configure *Online* Business Central environments in the Tenant Admin Center, or
 - B. Configure *On-premises* Business Central environments using Powershell cmdlets, or
 - C. Configure your Business Central app in the app.json manifest file

since BC160 - (Running)

General		
Application Insights Instrumentation Key:	<input type="text" value="00000000-0000-0000-0000-000000000000"/>	Lo
Build Restriction:	<input type="text" value="WarnClient"/>	Ma
Century Cutoff for 2-Digit Years:	<input type="text" value="-1"/>	Ma
Certificate Thumbprint:	<input type="text"/>	Ma

[Home](#) > [New](#) > Application Insights

Application Insights

Microsoft



Application Insights

Microsoft

[♡ Save for later](#)[Create](#)[Overview](#)[Plans](#)

Application performance, availability and usage information at your fingertips

Is my website available at all times?

Is the user experience responsive and usable?

How are customers using my app/website?

Application Insights answers these questions and many more. With Application Insights, you have full observability into your application across all components and dependencies of your complex distributed architecture, as well as:

- Availability and performance monitoring
- Deep code diagnostics with profiler and debugger
- Users and usage insights

BCTech/samples/AppInsights at | Sessions - Microsoft Azure

←

→

↺

🔒 https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptions/0e

...

🔍

☆

☆

📁

👤

👤

...

☰

Microsoft Azure (Preview)

🐛

🔍 Search resources, services, and docs (G+ /)

📧

📄

🔔 1

⚙️

?

😊

User logged in in MICROSOFT

👤

Home > <Name of your AppInsights resource>

💡 <Name of AppInsights resource. Use this when deploying dashboards>

Application Insights

🔍 Search (Ctrl+ /)

⏪

💡 Overview

📋 Activity log

👤 Access control (IAM)

🏷️ Tags

🔧 Diagnose and solve problems

Investigate

🗺️ Application map

🔍 Smart Detection

⚡ Live Metrics

🔍 Search

🌐 Availability

🚨 Failures

🌐 Performance

📖 Troubleshooting guides (pre...

Monitoring

🚨 Alerts

★ Application Dashboard

👤 Getting started

🔍 Search

📊 Logs

💡 Monitor resource group

😊 Feedback

☆ Favorites

➡️ Rename

🗑️ Delete

Resource group (change) : <Use this when deploying dashboards>

Instrumentation Key : <Use this in the tenant admin center>

Location : West Europe

Subscription (change) : <Use this when deploying dashboards>

Subscription ID : <Use this when deploying dashboards>

Tags (change) : Click here to add tags

⏶️

Dynamics 365

Business Central Admin Center

Contoso Central

Update

Delete

Report Production Outage

Manage Support Contact

Application Insights Key

Environments

Notification recipients

Telemetry

Reported Outages

Environments > Production

Details

Name	Application family	Country/region	Data center
Production	Business Central	US	East US
Type	State	Database size	Application Insights Key
Production	Active	276.0 MB	No Application Insights Key set
URL			

Version Management

Application version	Platform version	Update version	Update scheduling available
16.0.10094.0	99.99		
Earliest update date	Update window (CDT, UTC-5:00) 12:00:00 AM - 6:00:00 AM		

Dynamics 365

Business Central Admin Center

Contoso Central

?

Update

Delete

Report Production Outage

Manage Support Contact

Application Insights Key

Environments

Notification recipients

Telemetry

Reported Outages

Environments > Production

Details

Name	Application family	Country/region	
Production	Business Central	US	
Type	State	Database size	Application Insights Key
Production	Active	276.0 MB	No Application Insights Key
URL			
https://businesscentral.dynamics-servicestie.com/f95414cd-1c67-45b3-a78d-e91c249628b8/Production			

Version Management

Application version	Platform version	Update version	Update scheduling available
16.0.10094.0	99.99		
Earliest update date	Update window (CDT, UTC-5:00)		
	12:00:00 AM - 6:00:00 AM		

Application Insights Key (Preview)

Enter the Instrumentation Key from Azure Monitor Application Insights. This will allow Business Central to send telemetry from this environment to Application Insights in Azure. This feature is in preview as there is limited telemetry available but more will be added.

Caution: Applying this key requires a restart to the environment. We recommend doing this when no users are active in Business Central.

Production

Instrumentation Key *

Save

Cancel

- Environments
- Notification recipients
- Telemetry
- Reported Outages

Environments > Production

Details			
Name	Application family	Country/region	Data center
Production	Business Central	US	East US
Type	State	Database size	Application Insights Key
Production	Active	276.0 MB	
URL			
https://businesscentral.dynamics-service.com/#95414cd-1c67-45b3-a78d-e91c249628b8/Production			

Version Management			
Application version	Platform version	Update version	Update scheduling available
16.0.10094.0	99.99		
Earliest update date	Update window (CDT, UTC-5:00) 12:00:00 AM - 6:00:00 AM		

How to setup telemetry for an app

```
{ } app.json > version
```

```
1 {
2   "id": "adac299a-fbcf-410f-aa52-e9fa84b6ee09",
3   "name": "ISV-telemetry",
4   "publisher": "Fabrikum",
5   "version": "1.0.0.3",
6   "brief": "",
7   "description": "",
8   "privacyStatement": "",
9   "EULA": "",
10  "help": "",
11  "url": "",
12  "logo": "",
13  "dependencies": [],
14  "screenshots": [],
15  "platform": "17.0.0.0",
16  "application": "17.0.0.0",
17  "applicationInsightsKey": "44a188ac-e3f4-40c7-b91b-70ba2918ae7b",
18  "idRanges": [
19    {
20      "from": 50100,
21      "to": 50149
22    }
23  ],
24  "contextSensitiveHelpUrl": "https://ISV-telemetry.com/help/",
25  "showMyCode": true,
26  "runtime": "6.0"
27 }
```

Setup scenarios for partners

One Application Insights account can be used for many environments.

Imagine a partner managing 100 environments for 40 different customers.

- Maybe one Application Insights for prod, one for sandboxes
- Or select customers want to use their own

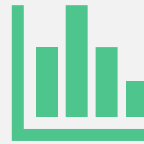


How to visualize data from Application Insights



Use Azure
dashboards (demo)

<https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-app-dashboards#add-logs-analytics-query>



Use PowerBI

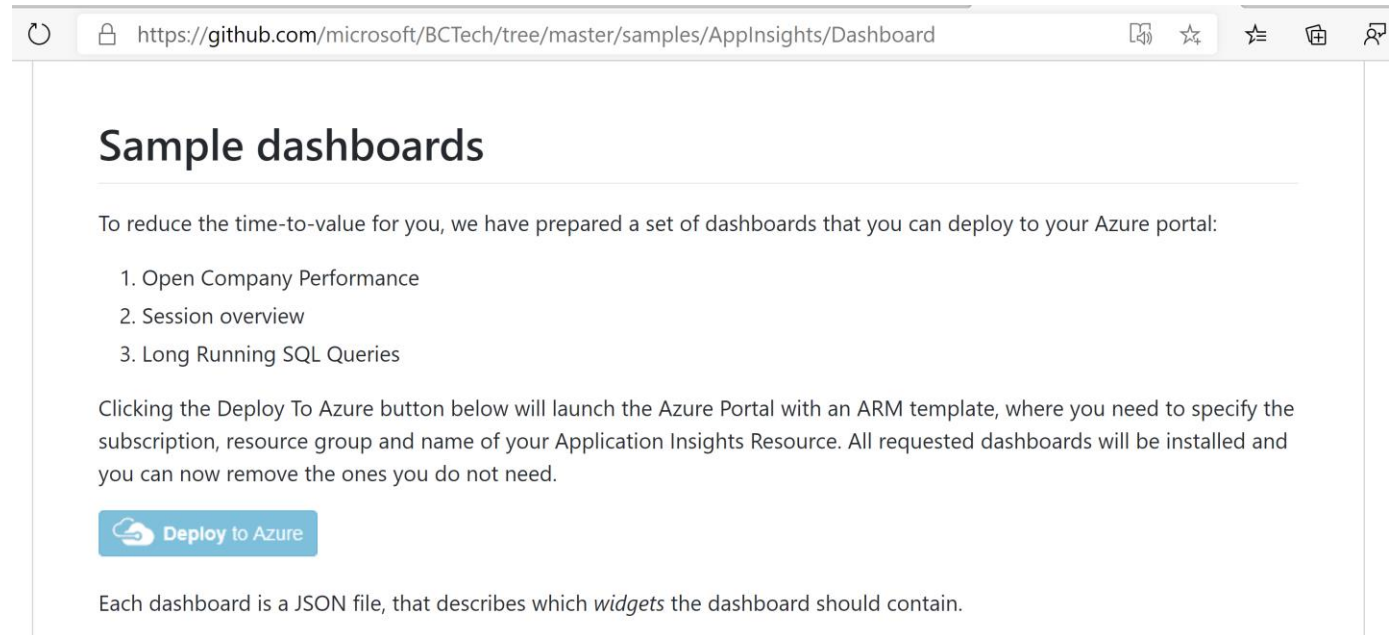
<https://docs.microsoft.com/en-us/azure/azure-monitor/app/export-power-bi>



Use Azure Data
Studio (Jupyter
notebooks)

<https://docs.microsoft.com/en-us/azure/data-explorer/kqlmagic>

How to deploy sample dashboards



Fill in the
deployment
template and
click
“Purchase”

Microsoft Azure (Preview)


Search resources, services, and docs (G+/)

Home > Custom deployment

Custom deployment

Deploy from a custom template

TEMPLATE

 Customized template
3 resources

[Edit template](#)

[Edit paramet...](#)

[Learn more](#)

BASICS

Subscription *

Visual Studio Enterprise

Resource group *

Create new

Location *

(US) East US

SETTINGS

App Insights Subscription Id ⓘ

App Insights Resource Group Name ⓘ

App Insights Name * ⓘ

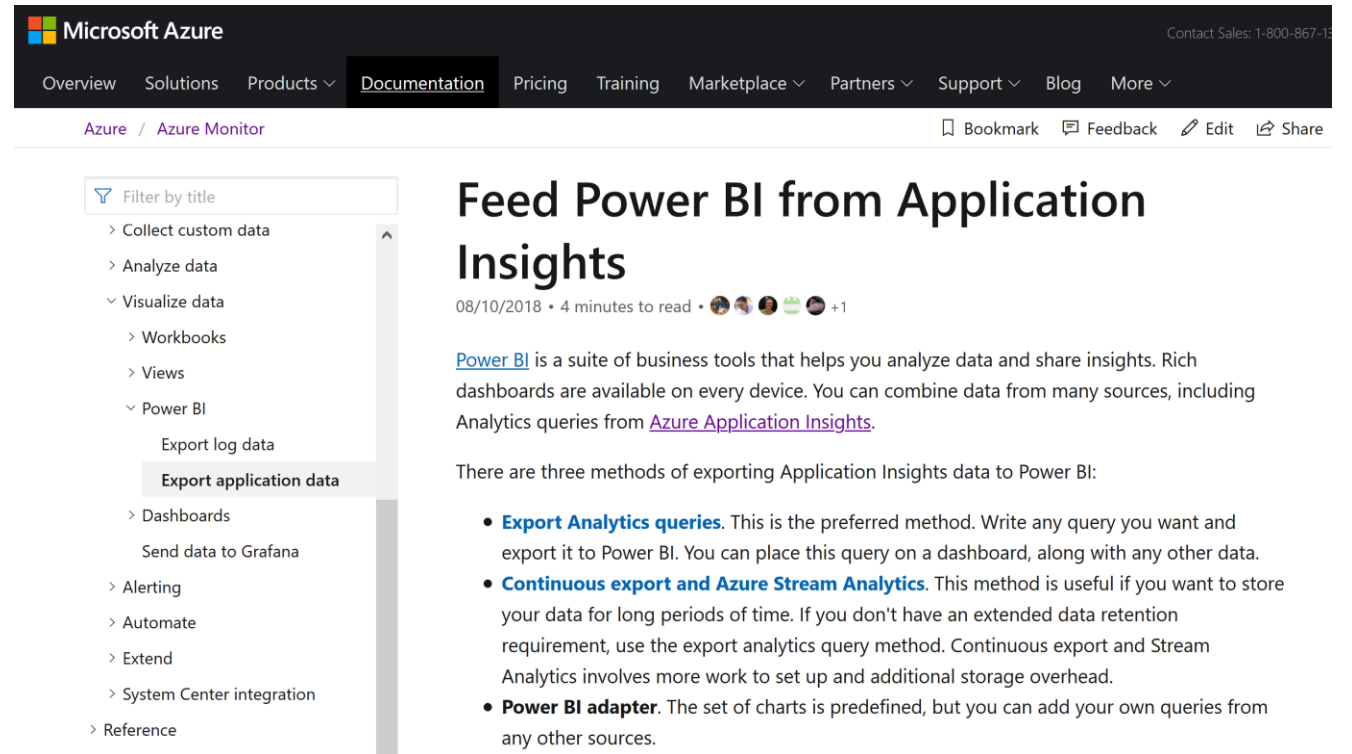
TERMS AND CONDITIONS

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Purchase

How to connect PowerBI to Application Insights



The screenshot shows the Microsoft Azure documentation website. The top navigation bar includes links for Overview, Solutions, Products, Documentation (highlighted), Pricing, Training, Marketplace, Partners, Support, Blog, and More. Below this, a breadcrumb trail shows 'Azure / Azure Monitor'. On the left, a sidebar menu lists various Azure Monitor features, with 'Export application data' selected and highlighted. The main content area displays the article title 'Feed Power BI from Application Insights', the date '08/10/2018', and a reading time of '4 minutes'. The article text explains that Power BI is a suite of business tools for data analysis and sharing insights, and that it can combine data from various sources, including Azure Application Insights. It then lists three methods for exporting Application Insights data to Power BI: Export Analytics queries, Continuous export and Azure Stream Analytics, and Power BI adapter.

Microsoft Azure

Overview Solutions Products Documentation Pricing Training Marketplace Partners Support Blog More

Azure / Azure Monitor

Filter by title

- > Collect custom data
- > Analyze data
- > Visualize data
 - > Workbooks
 - > Views
 - > Power BI
 - Export log data
 - Export application data**
- > Dashboards
 - Send data to Grafana
- > Alerting
- > Automate
- > Extend
- > System Center integration
- > Reference

Feed Power BI from Application Insights

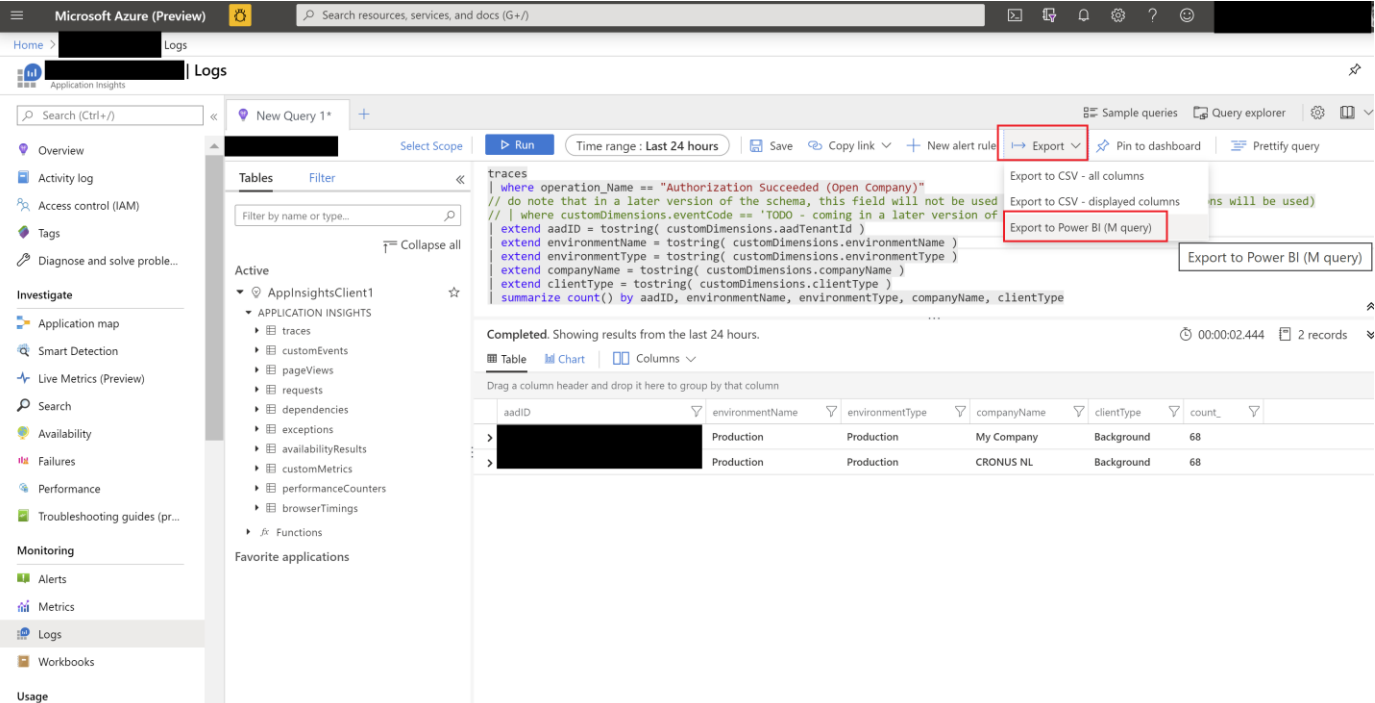
08/10/2018 • 4 minutes to read • +1

[Power BI](#) is a suite of business tools that helps you analyze data and share insights. Rich dashboards are available on every device. You can combine data from many sources, including Analytics queries from [Azure Application Insights](#).

There are three methods of exporting Application Insights data to Power BI:

- **Export Analytics queries.** This is the preferred method. Write any query you want and export it to Power BI. You can place this query on a dashboard, along with any other data.
- **Continuous export and Azure Stream Analytics.** This method is useful if you want to store your data for long periods of time. If you don't have an extended data retention requirement, use the export analytics query method. Continuous export and Stream Analytics involves more work to set up and additional storage overhead.
- **Power BI adapter.** The set of charts is predefined, but you can add your own queries from any other sources.

Export KQL query to M query (to be used in PowerBI)



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure (Preview) logo and a search bar. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problem..., Investigate, Application map, Smart Detection, Live Metrics (Preview), Search, Availability, Failures, Performance, Troubleshooting guides (pr...), Monitoring, Alerts, Metrics, Logs, Workbooks, and Usage. The main content area displays the 'Logs' section for a specific resource. A KQL query is entered in the 'New Query 1*' tab. The query is as follows:

```
traces
| where operation_Name == "Authorization Succeeded (Open Company)"
// do note that in a later version of the schema, this field will not be used
// | where customDimensions.eventCode == 'T000 - coming in a later version of
| extend aadID = tostring( customDimensions.aadTenantID )
| extend environmentName = tostring( customDimensions.environmentName )
| extend environmentType = tostring( customDimensions.environmentType )
| extend companyName = tostring( customDimensions.companyName )
| extend clientType = tostring( customDimensions.clientType )
| summarize count() by aadID, environmentName, environmentType, companyName, clientType
```

The 'Export' button is highlighted with a red box. The dropdown menu shows the following options:

- Export to CSV - all columns
- Export to CSV - displayed columns
- Export to Power BI (M query)

The 'Export to Power BI (M query)' option is selected, and a confirmation dialog box is displayed with the text 'Export to Power BI (M query)'.

Below the query, the results are displayed in a table format. The table has the following columns: aadID, environmentName, environmentType, companyName, clientType, and count_. The results show two records:

aadID	environmentName	environmentType	companyName	clientType	count_
[REDACTED]	Production	Production	My Company	Background	68
[REDACTED]	Production	Production	CRONUS NL	Background	68

Filter by title

Company Lifecycle Telemetry

Database Lock Timeout Telemetry

Extension Update Telemetry

Long Running SQL Queries Telemetry

Report Generation Telemetry

Web Services Requests Telemetry

Event IDs

> Administration Center

> Automation

> Onboard your customers

> Migrate to Business Central Online

> What's New or Changed

> Development

> Security

> Performance

> Integration


> Removed or deprecated features

> Business Central on-premises

Download PDF

ww.microsoft.com

Telemetry Event IDs in Application Insights

06/22/2020 • 2 minutes to read • 

The following tables list the IDs of Business Central telemetry events that can be emitted in Azure Application Insights.

Runtime events

Event ID	Area	Message
RT0001	Authorization	Authorization Failed (Pre Open Company): {failure reason}
RT0002	Authorization	Authorization Failed (Open Company): {failure reason}
RT0003	Authorization	Authorization Succeeded (Pre Open Company)
RT0004	Authorization	Authorization Succeeded (Open Company)
RT0005	Performance	Operation exceeded time threshold (SQL query)
RT0006	Report generation	Success report generation
RT0006	Report generation	Report rendering failed: {report ID} - {report name}

Is this page helpful?

 Yes  No

In this article

- [Runtime events](#)
- [Lifecycle events](#)
- [See also](#)

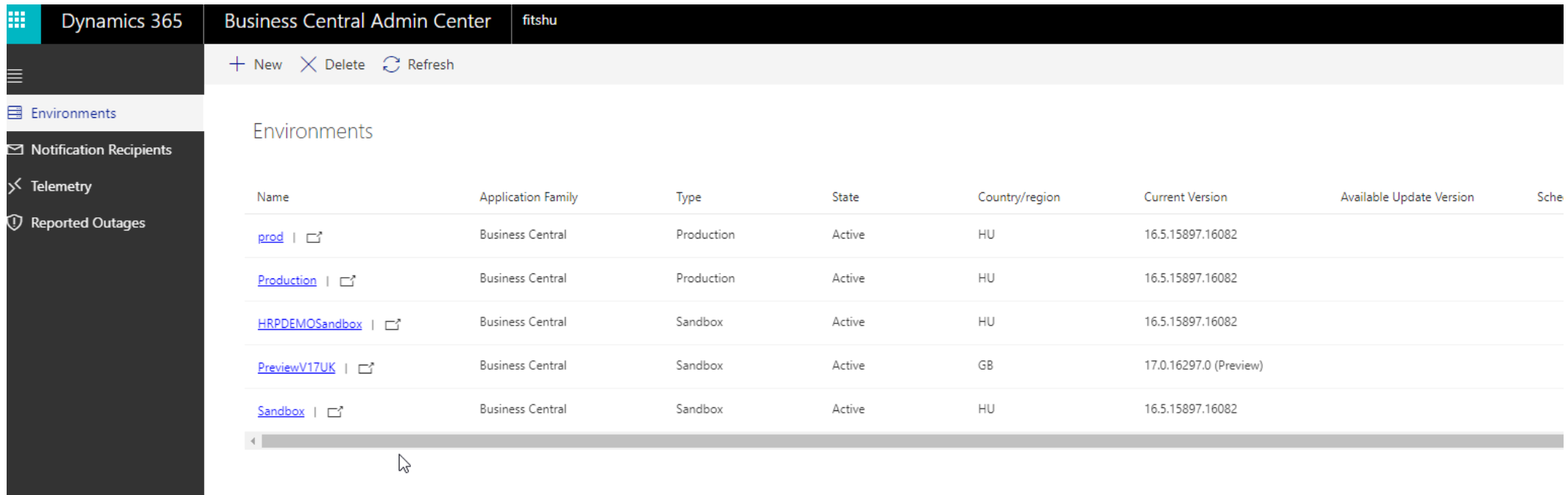
Links

- About Azure Monitor/Application Insights
 - <https://aka.ms/azuremonitor>
- Setup Business Central to emit telemetry to Azure Application Insights
 - <https://aka.ms/bctelemetry>
- Telemetry signal overview
 - <https://aka.ms/bctelemetry>
- Samples
 - <https://aka.ms/bctelemetrysamples>

DEMO

Admin Felület


- Ki éri el ? Most Office 365 adminok
 - Októbertől :
 - Dynamics 365 admin
 - Helpdesk admin




The screenshot displays the Dynamics 365 Business Central Admin Center interface. The top navigation bar includes the Dynamics 365 logo, the title 'Business Central Admin Center', and the user 'fitshu'. Below the navigation bar, there are buttons for '+ New', 'X Delete', and a circular arrow icon for 'Refresh'. The left sidebar contains a menu with 'Environments' (selected), 'Notification Recipients', 'Telemetry', and 'Reported Outages'. The main content area is titled 'Environments' and contains a table with the following columns: Name, Application Family, Type, State, Country/region, Current Version, Available Update Version, and Schedule. The table lists five environments: 'prod' (Production, Active, HU, 16.5.15897.16082), 'Production' (Production, Active, HU, 16.5.15897.16082), 'HRPDEMOSandbox' (Sandbox, Active, HU, 16.5.15897.16082), 'PreviewV17UK' (Sandbox, Active, GB, 17.0.16297.0 (Preview)), and 'Sandbox' (Sandbox, Active, HU, 16.5.15897.16082). Each row has a link icon next to the Name column.

Name	Application Family	Type	State	Country/region	Current Version	Available Update Version	Sche
prod	Business Central	Production	Active	HU	16.5.15897.16082		
Production	Business Central	Production	Active	HU	16.5.15897.16082		
HRPDEMOSandbox	Business Central	Sandbox	Active	HU	16.5.15897.16082		
PreviewV17UK	Business Central	Sandbox	Active	GB	17.0.16297.0 (Preview)		
Sandbox	Business Central	Sandbox	Active	HU	16.5.15897.16082		


Értesítések




Dynamics 365




Environments



Notification Recipients




Telemetry




Reported Outages

Business Central Admin Center

fitshu

 Add recipient

 Remove recipient

Notification Recipients

Name	Email Address
falu	falu@fits.hu

Telemetry

Dynamics 365

Business Central Admin Center

fitshu

Environments

Notification Recipients

Telemetry

Reported Outages

Telemetry

09/23/2020 09:31 AM

-5

Minutes

All

prod - BusinessCentral

Search

Kiesések



Reported Production Outages

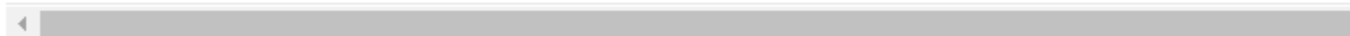
View outages for the last:

☐ 7 Days ☐ 14 Days ☐ 30 Days ☒ All

Ticket ID

Created Date

Name



Admin Api

PowerBI kapcsolódás

- Demo