Business Central

A DYNAMICSCON PRESENTATION

dynamicscon.com/virtual

Telemetry Unleashed: From Basics to Brilliance in Business Central

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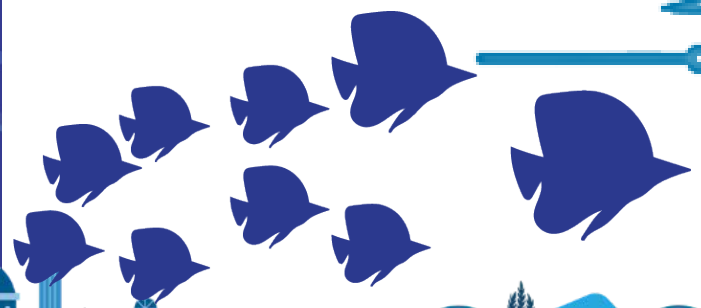
Email: stefan.sosic@bcility.com

Three simple steps to enable telemetry

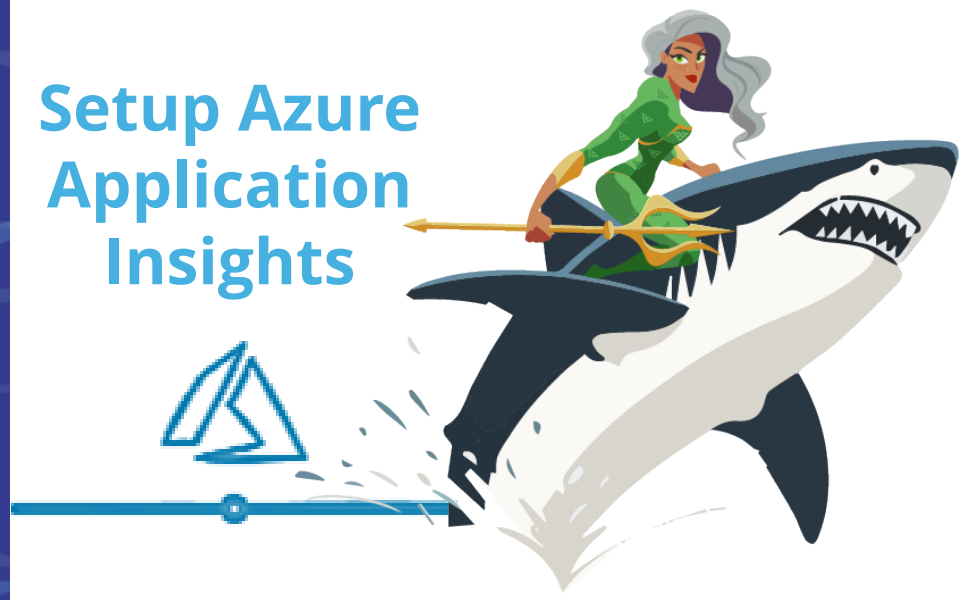
Setup Azure Application Insights

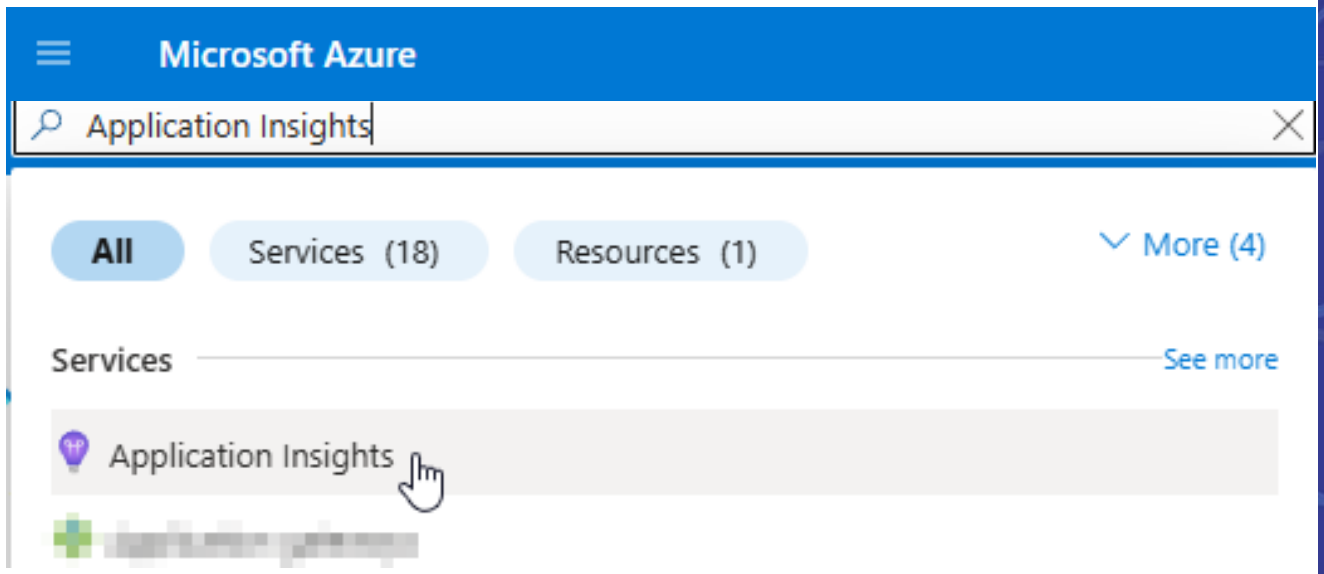
Configure BC to use Application Insights

Verify the Collection of signals in Application Insights

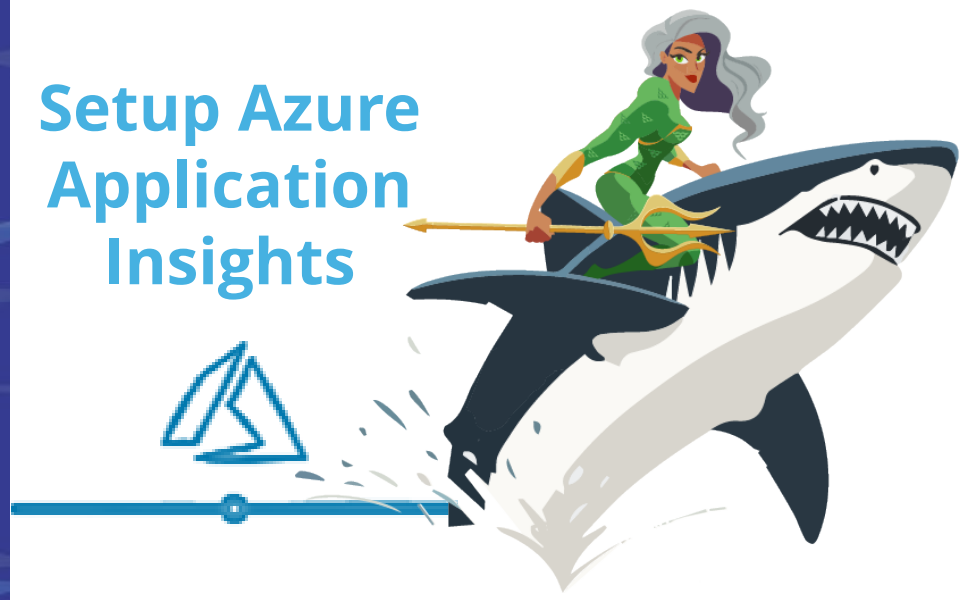


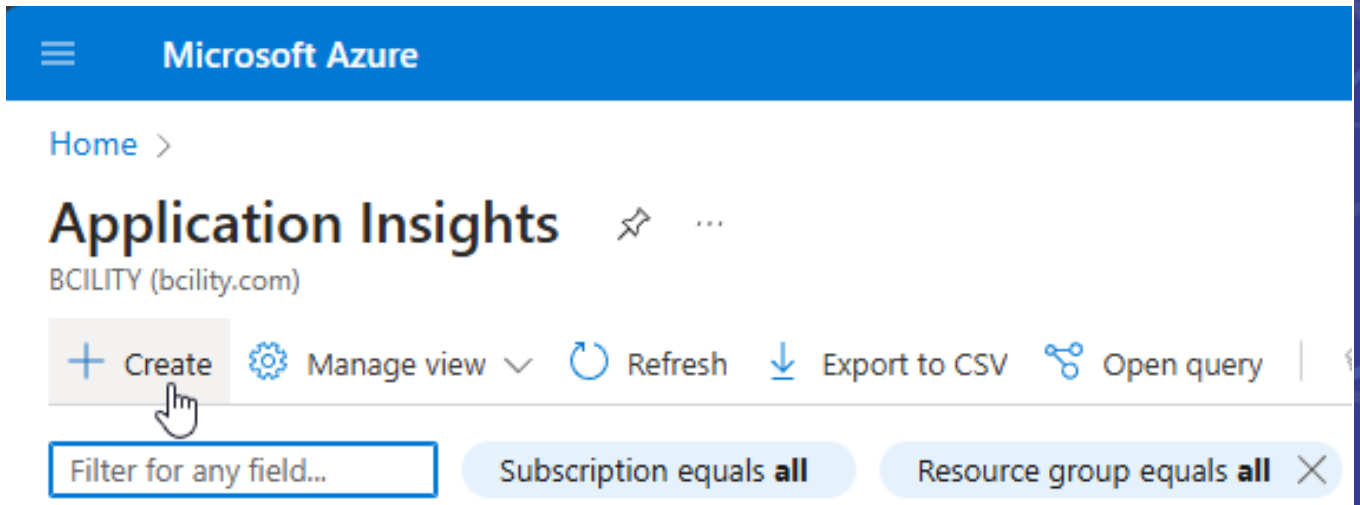
Setup Azure Application Insights





Setup Azure Application Insights





Setup Azure Application Insights

Microsoft Azure

Search res

Home > Application Insights >

Application Insights

Monitor web app performance and usage

Basics | Tags | Review + create

Create an Application Insights resource to monitor your live web application. With Application Insights, you have full observability into your application across all components and dependencies of your complex distributed architecture. It includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. It's designed to help you continuously improve performance and usability. It works for apps on a wide variety of platforms including .NET, Node.js and Java EE, hosted on-premises, hybrid, or any public cloud. Learn More

PROJECT DETAILS

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * : Microsoft Azure Sponsorship

Resource Group * : DynamicsConVirtual

Create new

INSTANCE DETAILS

Name * : DynamicsConVirtual

Region * : (Europe) West Europe

WORKSPACE DETAILS

Subscription * : Microsoft Azure Sponsorship

Log Analytics Workspace * : (new) e28efbf9-931e-43b3-88b3-e78df531c590-BaseCalendarHolidays-W...

Review + create | « Previous | Next : Tags >

Setup Azure Application Insights

Connection String : InstrumentationKey=b57e074b-6ce3-49e7-996d-48a264dafbde;

DynamicsConVirtual
Application Insights

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Investigate
- Monitoring
- Alerts

Application Dashboard | Getting started | Search | Logs | Monitor resource group | Feedback | Favorites | Rename | Delete

Essentials JSON View

Resource group (move)	: DefaultResourceGroup-WEU
Location	: West Europe
Subscription (move)	: Microsoft Azure Sponsorship
Subscription ID	: e28efbf9-931e-43b3-88b3-e78df732c590
Tags (edit)	: Add tags
Instrumentation Key	: b57e074b-6ce3-49e7-996d-48a264dafbde
Connection String	: InstrumentationKey=b57e074b-6ce3-49e7-996d-48a934dafbde;IngestionEnd...
Workspace	: e28efbf9-931e-43b3-88b3-e78df531c590-DefaultResourceGroup-WEU

Show data for last:

30 minutes | 1 hour | 6 hours | 12 hours | 1 day | 3 days | 7 days | 30 days

Configure BC to use Application Insights

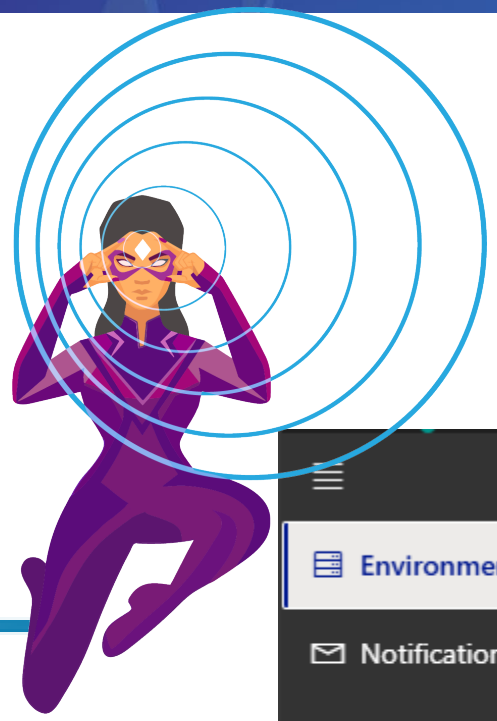
Tenant Name

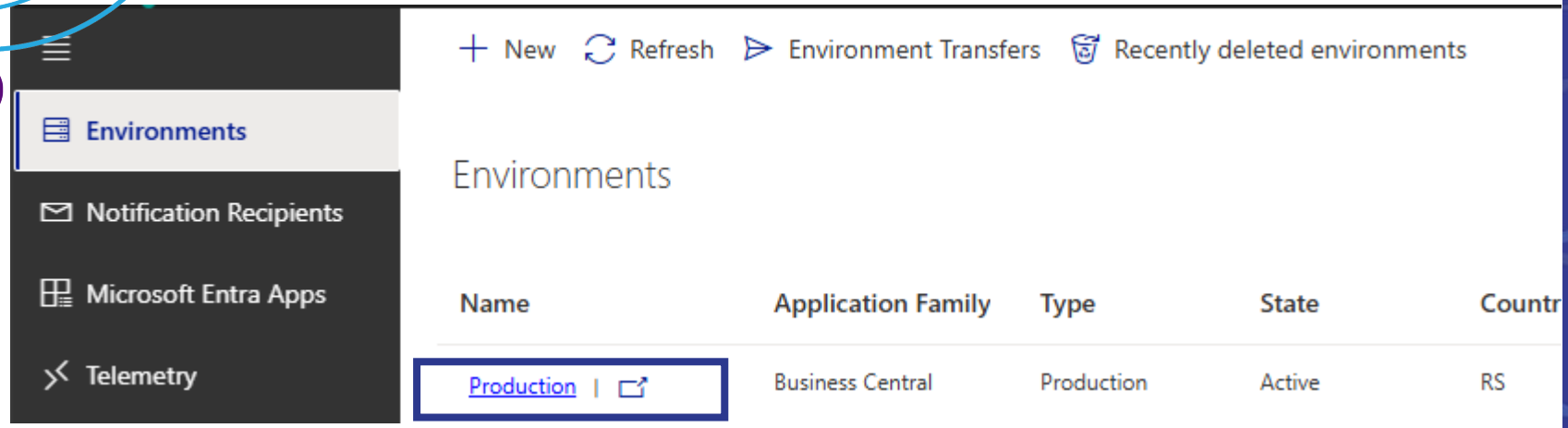
https://businesscentral.dynamics.com/bcility.com/admin

Tenant GUID

https://businesscentral.dynamics.com/bfccab2c-5a53-41cd-b96f-1685b0e0daa7/admin

Configure BC to use Application Insights





Configure BC to use Application Insights

Environments > **Production**

Details

Name
Production

Application Family
Business Central

Type
Production

Telemetry (?)
Not Set (Define)

URL
https://businesscentral.dynamics.com/3c64fe1c-d585-4c5c-8a54-9962302bc499/Production

Configure BC to use Application Insights

Logging telemetry

Production

Enter the connection string for the Azure Application Insights resource where you want telemetry to be stored for the environment.
Learn more

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

Enable telemetry

Azure Application Insights Connection String *

Configure BC to use Application Insights

Logging telemetry

Production

Enter the connection string for the Azure Application Insights resource where you want telemetry to be stored for the environment.
Learn more

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

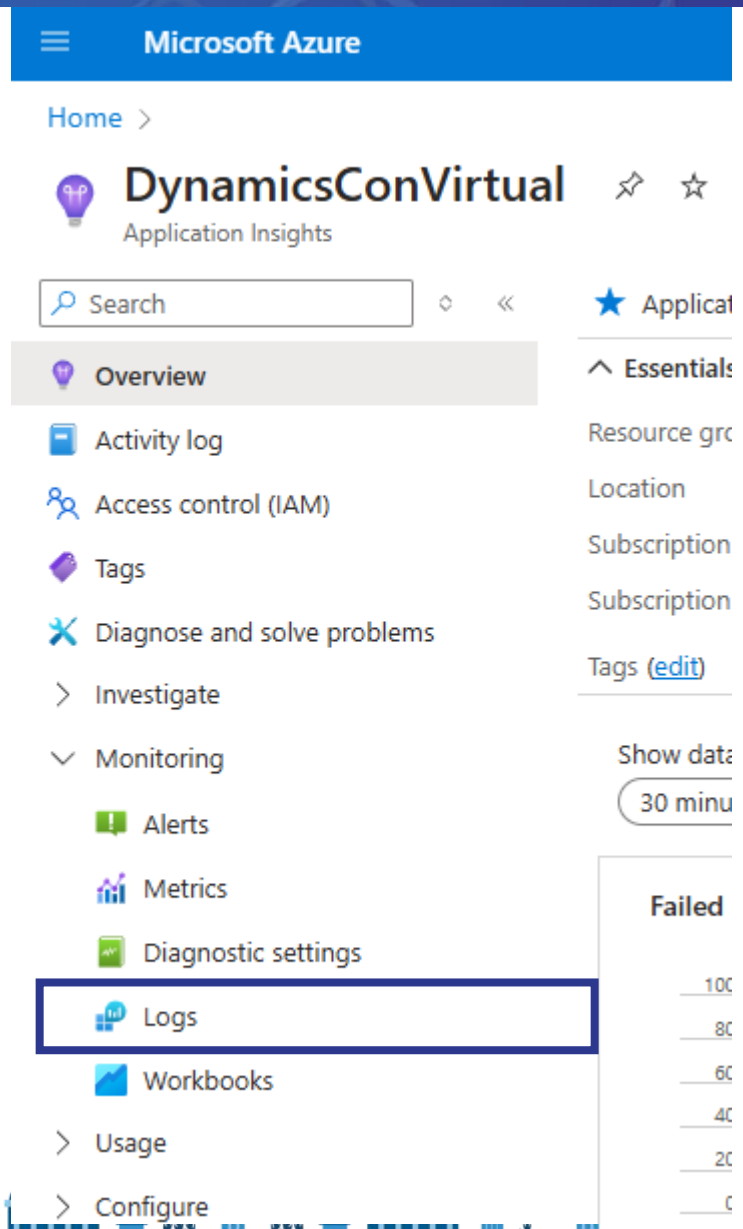
Enable telemetry

Azure Application Insights Connection String *

InstrumentationKey=b57e074b-6ce3-49e7-996d-48a264dafbde;

Save Cancel

Verify the Collection of signals in Application Insights



Verify the Collection of signals in Application Insights

DynamicsConVirtual | Logs
Application Insights

Search

Overview
log
(IAM)
problems
Investigate
Monitoring
Alerts
Metrics
Diagnostic settings
Logs
Workbooks

New Query 1

DragAndDrop | Select scope | Run | Time range : Last 24 h

Tables | Queries | Functions

Search

Filter | Group by: Solution

Collapse all

Favorites

You can add favorites by clicking on the ☆ icon

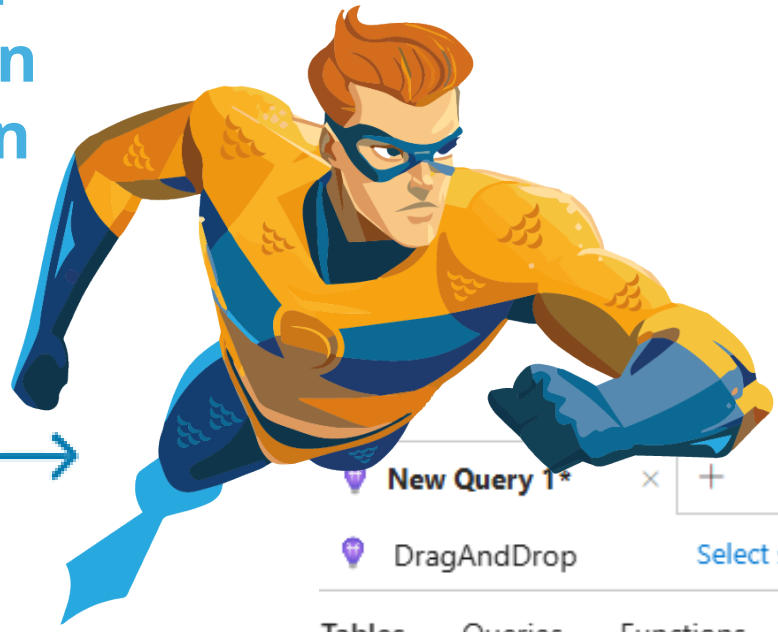
Application Insights

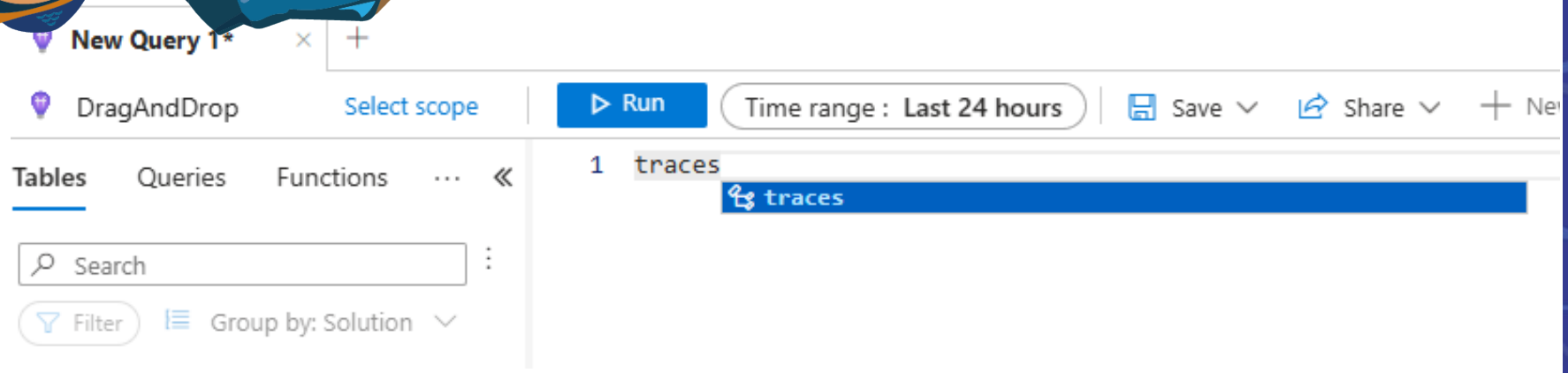
availabilityResults
browserTimings
customEvents

1 Type your query here or cl

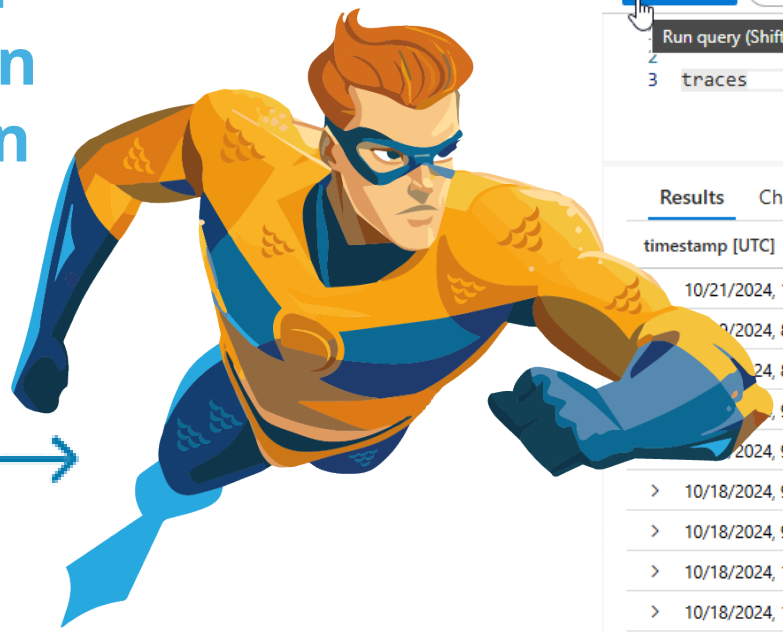
Query history

Verify the Collection of signals in Application Insights





Verify the Collection of signals in Application Insights



Run | Time range : Last 7 days | Save | Share | New alert rule | Export | Pin to | Format query

Run query (Shift+Enter)

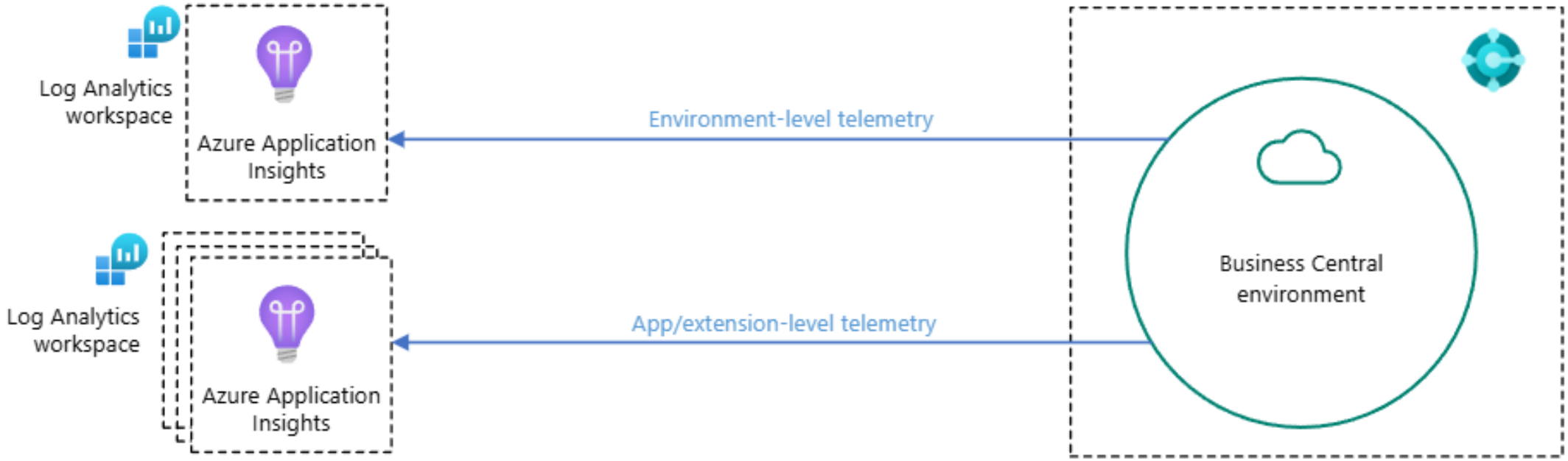
```
2
3  traces
```

Results | Chart

timestamp [UTC]	message	severityLevel	itemType	customDimensions
10/21/2024, 10:12:42.510 AM	Operation exceeded time thres...	2	trace	{"telemetrySchemaVersion":"0.5...
/2024, 8:05:40.375 AM	Extension is already synchroniz...	1	trace	{"extensionPublisher":"BCILITY",...
24, 8:05:26.562 AM	Extension is already synchroniz...	1	trace	{"extensionPublisher":"BCILITY",...
9:06:15.434 PM	Extension is already synchroniz...	1	trace	{"extensionPublisher":"BCILITY",...
2024, 9:04:33.984 PM	Extension is already synchroniz...	1	trace	{"extensionPublisher":"BCILITY",...
10/18/2024, 9:02:50.040 PM	Extension published successfull...	1	trace	{"extensionPublisher":"BCILITY",...
10/18/2024, 9:02:48.326 PM	Extension compiled successfull...	1	trace	{"extensionPublisher":"BCILITY",...
10/18/2024, 1:34:26.077 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:31:42.835 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:30:54.880 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:30:40.873 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:30:28.482 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:30:01.219 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:29:27.321 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:28:52.120 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:28:27.185 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...
10/18/2024, 1:26:50.347 PM	Operation exceeded time thres...	2	trace	{"extensionVersion":"24.3.19.0",...

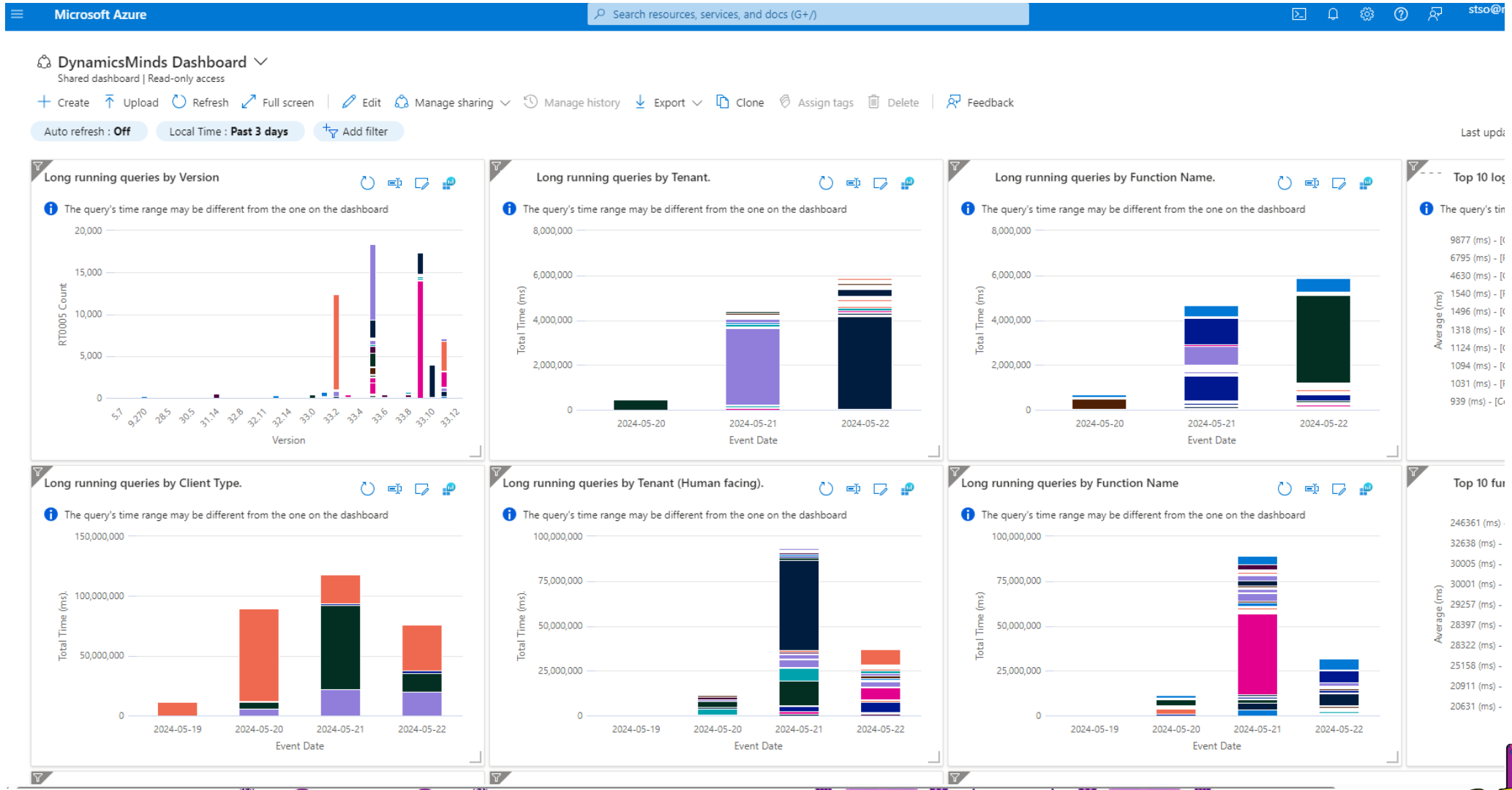
0s 555ms | Display time (UTC+00:00)

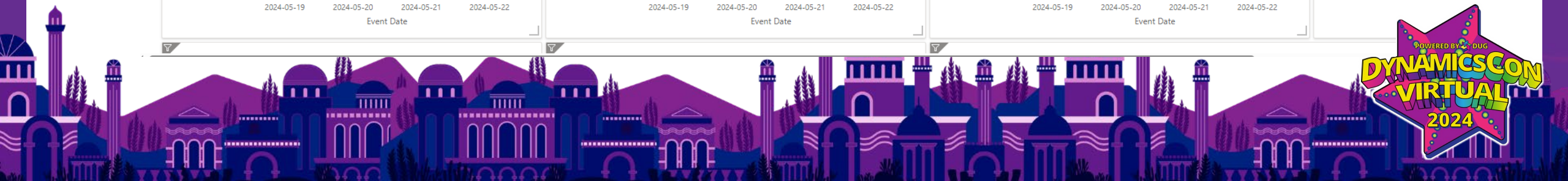
What are those showing?



What do you get?

Advanced dashboards on Azure





What about unexpected costs?

5 GB is free!

Do you want to stay in that range?

Set a daily cap at **160 MB** per day (to avoid unexpected charges)

One event typically takes 2-10 KB.

This totals in 5,000 – 80,000 events.

32,000 events per day are possible with an average event size of 5 KB.

DynamicsConVirtual | Usage and estimated costs

Application Insights

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Investigate
- Monitoring
- Usage
- Configure
  - Properties
  - Smart detection settings
  - Network Isolation
  - Usage and estimated costs
  - API Access
  - Work Items

Data sampling | Data retention | Daily cap | Custom metrics (Preview)

Daily cap

This Application Insights resource is sending its data to a Log Analytics workspace. You ca
in that workspace. Learn more about workspace-based Application Insights.

Log Analytics workspace: e28efbf9-931e-43b3-88b3-e78df531c590-DefaultResourc

Estimated Costs

The table below shows estimated monthly costs* for this Application Insights resource based or
retention estimated costs are available in the Log Analytics workspace.

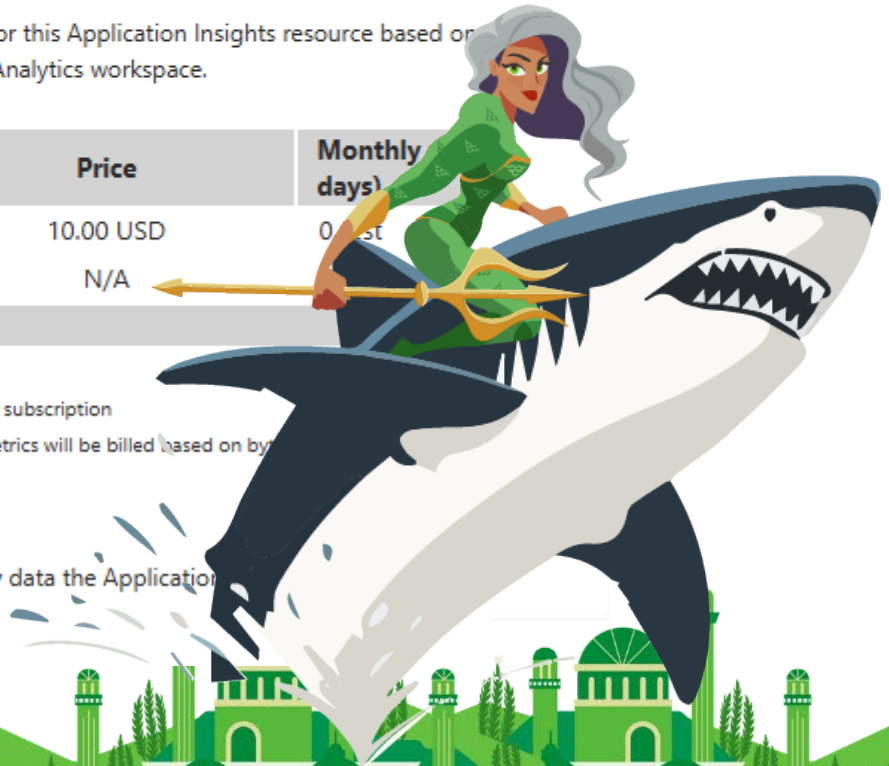
| Item type | Price | Monthly
days) |
|---|---|---|
| Multi-step web tests | 10.00 USD | 0 st |
| Custom metrics** | N/A | |

*Estimates do not include taxes which may be applied to this subscription

**Billing has not started for custom metric usage. Custom metrics will be billed based on by

Data Sampling

Sampling can both reduce the volume of telemetry data the Applicatio
the Application Insights service.
Learn more about Data Sampling



Daily volume cap

If you need to limit your spend on data volume, you can apply a cap to the amount of data per day. Learn more about Daily Cap

The daily volume cap is:

0.16 GB/day

The daily cap reset time is 11:00 UTC. This reset time can be configured via ARM.

Send an email to the subscription administrators when the daily data volume has hit the cap.

Daily cap warning level:

90

Send an email to the subscription administrators when the daily data volume has hit this warning level.

To set an alert on daily cap and threshold Activity Log events, which gives you more control over how you're alerted, follow these instructions .

Important: If this Application Insights resource is sending data to a Log Analytics workspace, this daily cap cannot be relied on to always limit data ingestion. Use the daily cap within Log Analytics to get reliable data volume and cost control. Learn more about workspace-based Application Insights.

Contact us if you want your application to submit more than 1000 GB/day of data.

OK

This resource has exceeded its daily cap limit within the last two days. To avoid this issue in the future, increase the daily cap here →

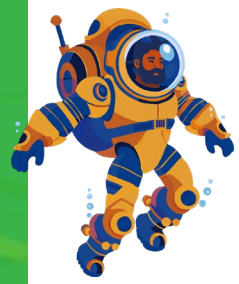
how data for last:

You want to pay?

Pricing Details:

- **Cost**: $2.76 per GB beyond the free 5 GB.
- **Monthly Volume**: Allows for 100,000 events.
- **Daily Volume**: Equivalent to about 3,300 events per day.

Considerations:



- **Budget Planning**: Understanding costs helps budget for additional data needs.
- **Data Prioritization**: Pay for the most valuable data to ensure meaningful insights.

What to filter out?

High-Volume Data Sources:

Web Service Calls: These can generate significant amounts of data.

Background Sessions: Often produce large volumes of telemetry data.

Other Noisy Data: Identify and exclude less critical data to stay within free limits.

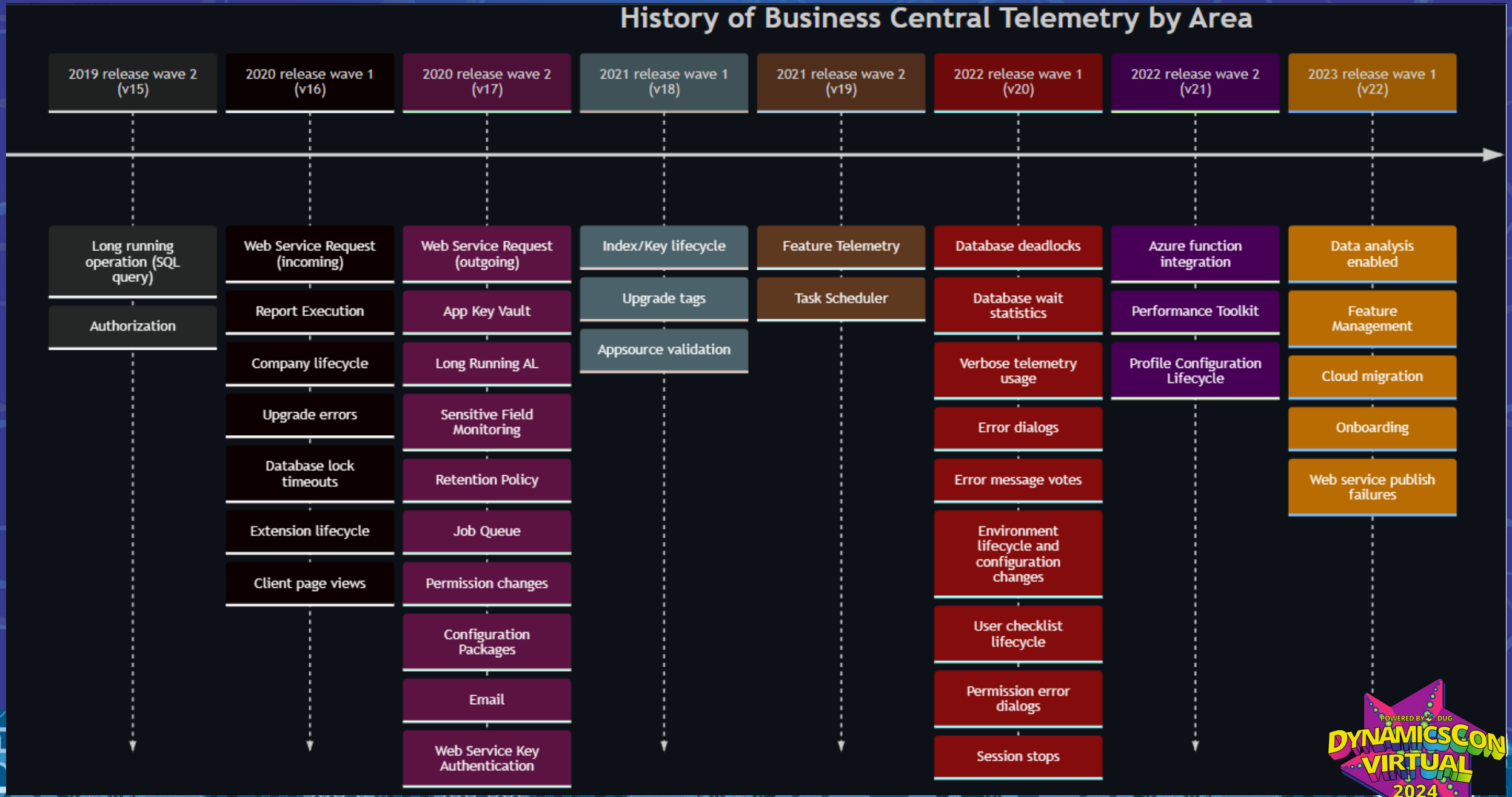
Why Filter?

Cost Efficiency: Reducing unnecessary data helps in staying within the free 5 GB limit.

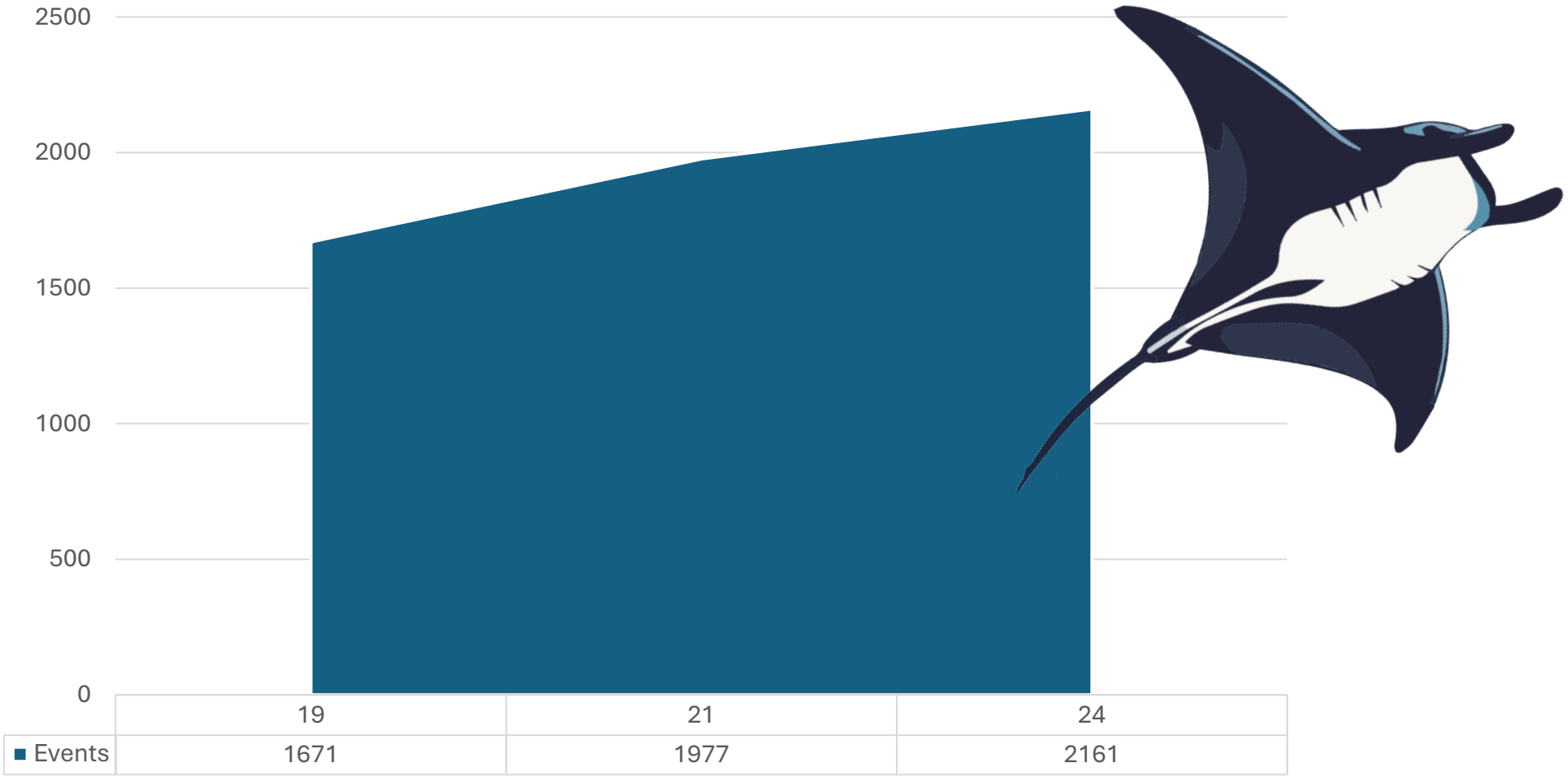
Relevant Insights: Focus on essential data for better insights and decision-making.

Too much signals?

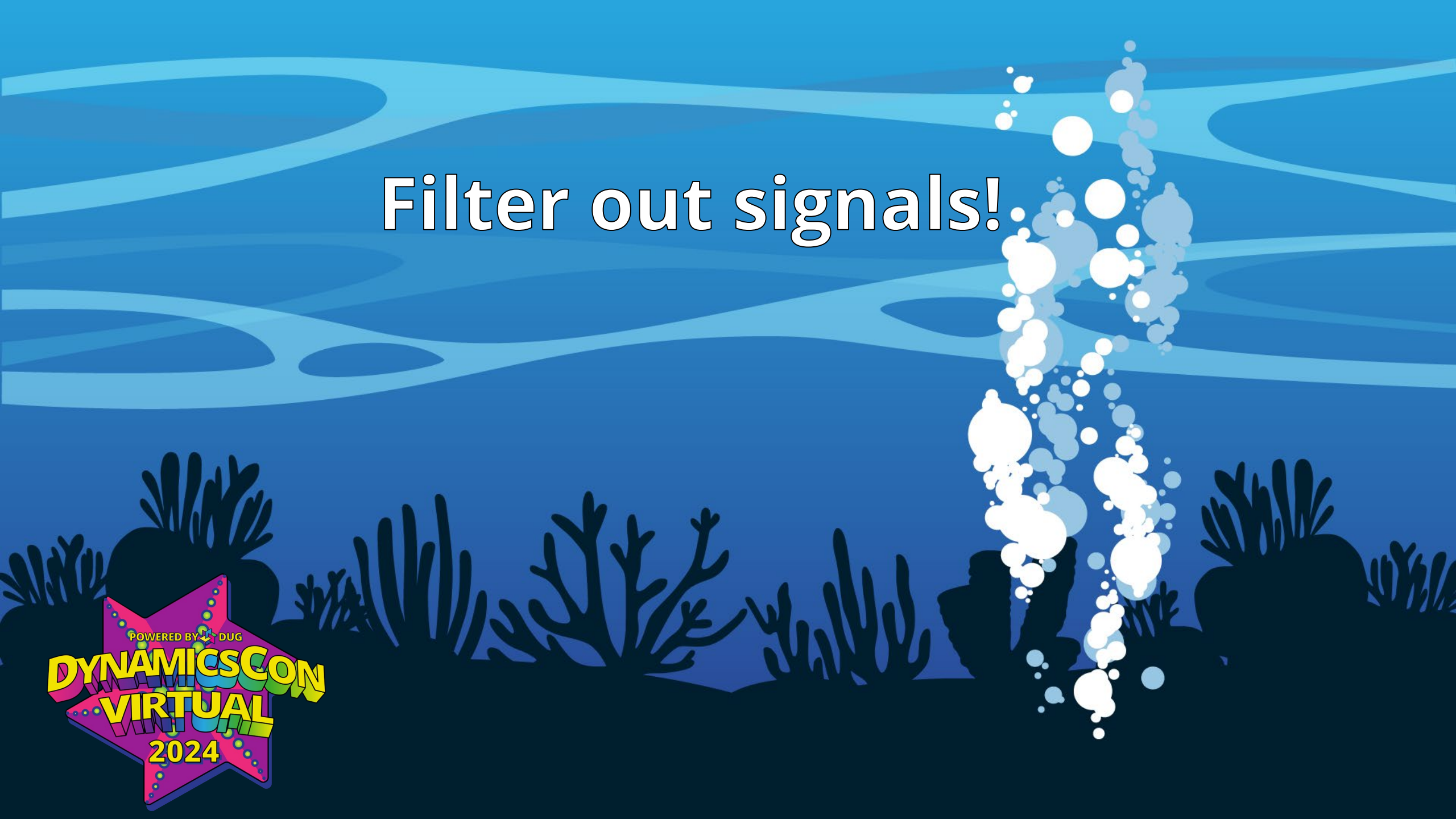
History of Business Central Telemetry by Area



Events per Business Central versions

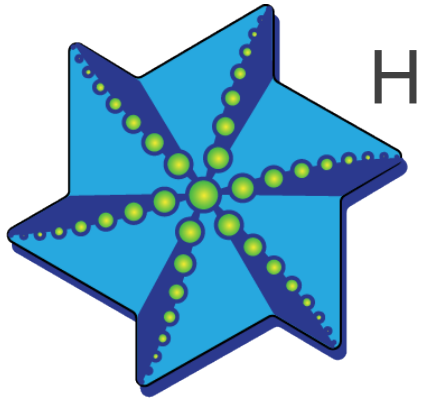


Filter out signals!



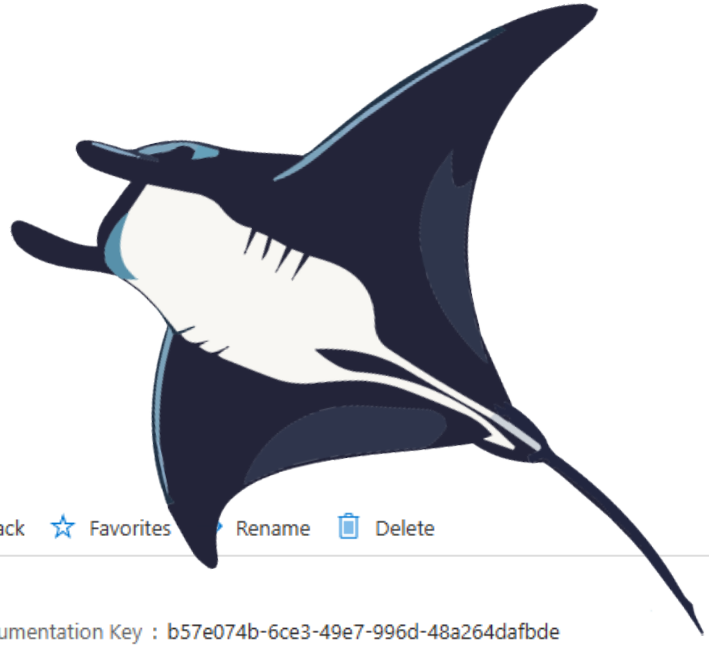
What are Data Collection Rules (DCR)?

Control **the type** of telemetry data that is collected and sent to Azure Application Insights



Helps with:

- Managing the volume of data
- Keeping relevant signals
- Controlling costs



DynamicsConVirtual

Application Insights

Search

- Overview
- Activity log
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- Tags
- Diagnose and solve problems
- Investigate
- Monitoring
- Alerts

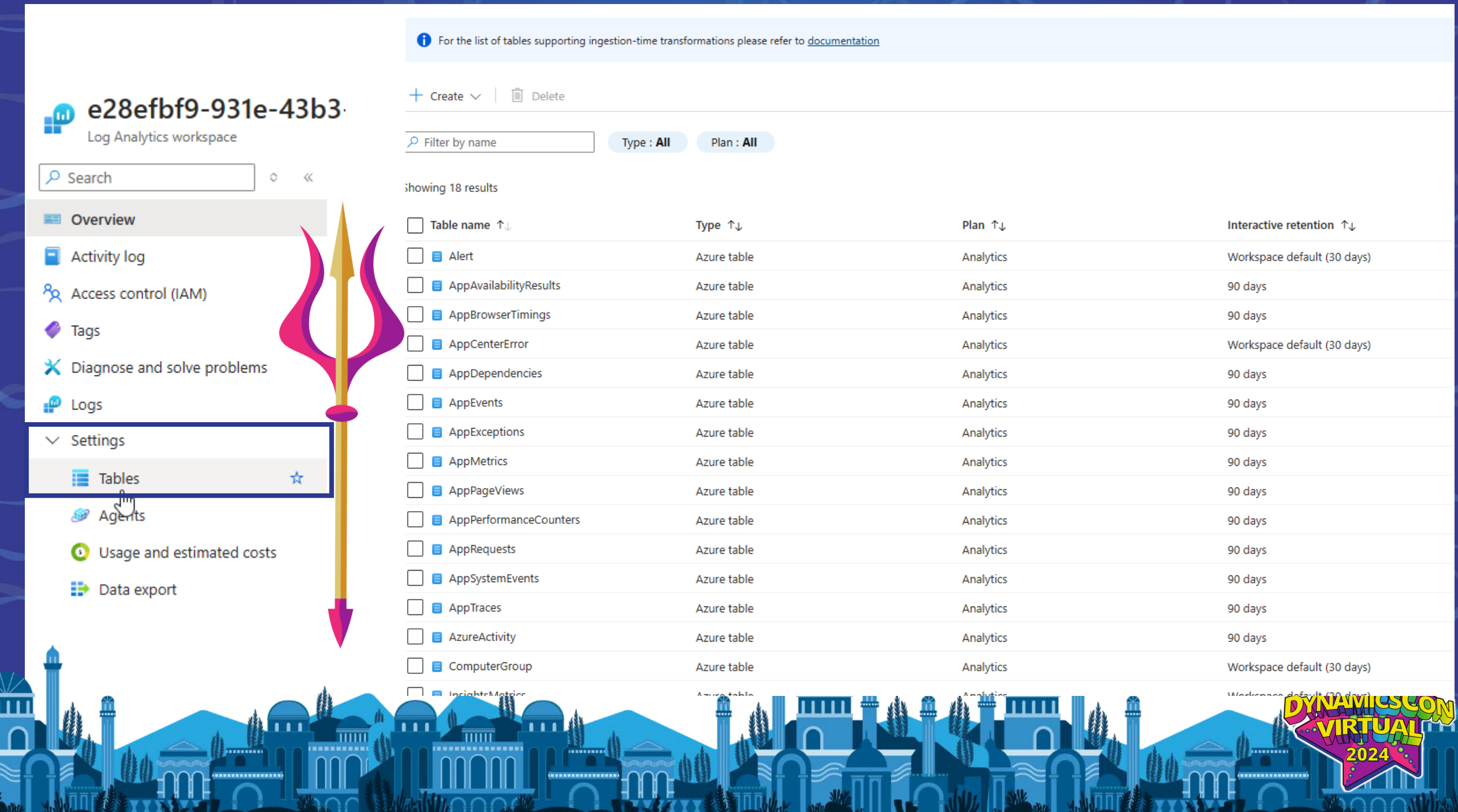
Application Dashboard | Getting started | Search | Logs | Monitor resource group | Feedback | Favorites | Rename | Delete

Essentials JSON View

Resource group (move)	: DefaultResourceGroup-WEU	Instrumentation Key	: b57e074b-6ce3-49e7-996d-48a264dafbde
Location	: West Europe	Connection String	: InstrumentationKey=b57e074b-6ce3-49e7-996d-48a934dafbde;IngestionEnd...
Subscription (move)	: Microsoft Azure Sponsorship	Workspace	: e28efbf9-931e-43b3-88b3-e78df531c590-DefaultResourceGroup-WEU
Subscription ID	: e28efbf9-931e-43b3-88b3-e78df732c590		
Tags (edit)	: Add tags		

Show data for last:

30 minutes | 1 hour | 6 hours | 12 hours | 1 day | 3 days | 7 days | 30 days

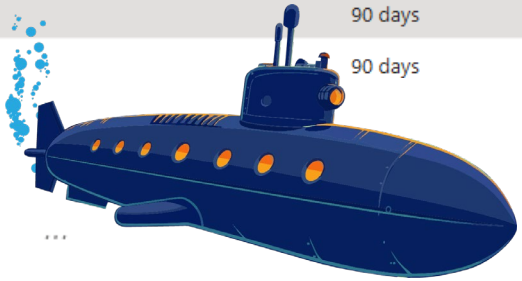

For the list of tables supporting ingestion-time transformations please refer to documentation
e28efbf9-931e-43b3
Log Analytics workspace
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Logs
Settings
Tables
Agents
Usage and estimated costs
Data export
Create
Delete
Filter by name
Type : All
Plan : All
Showing 18 results
Table name
Type
Plan
Interactive retention
Alert Azure table Analytics Workspace default (30 days)
AppAvailabilityResults Azure table Analytics 90 days
AppBrowserTimings Azure table Analytics 90 days
AppCenterError Azure table Analytics Workspace default (30 days)
AppDependencies Azure table Analytics 90 days
AppEvents Azure table Analytics 90 days
AppExceptions Azure table Analytics 90 days
AppMetrics Azure table Analytics 90 days
AppPageViews Azure table Analytics 90 days
AppPerformanceCounters Azure table Analytics 90 days
AppRequests Azure table Analytics 90 days
AppSystemEvents Azure table Analytics 90 days
AppTraces Azure table Analytics 90 days
AzureActivity Azure table Analytics 90 days
ComputerGroup Azure table Analytics Workspace default (30 days)
DYNAMICSCON VIRTUAL 2024

AppBrowserTimings	Azure table	Analytics	90 days
AppCenterError	Azure table	Analytics	Workspace default (30 days)
AppDependencies	Azure table	Analytics	90 days
AppEvents	Azure table	Analytics	90 days
AppExceptions	Azure table	Analytics	90 days
AppMetrics	Azure table	Analytics	90 days
AppPageViews	Azure table	Analytics	90 days
AppPerformanceCounters	Azure table	Analytics	90 days
AppRequests	Azure table	Analytics	90 days
AppSystemEvents	Azure table	Analytics	90 days
AppTraces	Azure table	Analytics	90 days
AzureActivity	Azure table	Analytics	90 days
ComputerGroup	Azure table	Analytics	Workspace default (30 days)

AppPageViews	Azure table	Analytics	90 days	90 days	
AppPerformanceCounters	Azure table	Analytics	90 days	90 days	
AppRequests	Azure table	Analytics	90 days	90 days	
AppSystemEvents	Azure table	Analytics	90 days	90 days	
AppTraces	Azure table	Analytics	90 days	90 days	
AzureActivity	Azure table	Analytics	90 days	90 days	

Manage table
Create transformation
Edit schema
Access control (IAM)

Click to open context menu



AppTraces transformation ...

1 Basics 2 Schema and transformation 3 Review

Table details

Table name	AppTraces
Description	Application Insights traces.

Data collection rule

Data collection rules (DCR) define the data coming into Azure Monitor and specify where that data should be sent or stored. Learn more

Data collection rule *: DynamicsConVirtual

Create a new data collection rule

« Previous Next

AppTraces transformation ...

Basics | 2 Schema and transformation | 3 Review

Transformation editor

TenantId	TimeGenerated	Message	SeverityLevel	Properties	Measurements
6fe050c1-b020-4a4f-b...	2024-10-22T15:34:43....	Extension is already sy...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T15:06:22....	Extension compiled su...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T15:06:24....	Extension published s...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T15:06:25....	Extension published s...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T15:18:27....	Extension is already sy...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T16:13:47....	Extension compiled su...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T16:13:48....	Extension published s...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T16:13:54....	Extension synchronize...	1	{"extensionPublisher":"...	
6fe050c1-b020-4a4f-b...	2024-10-22T16:14:02....	Extension installed suc...	1	{"extensionPublisher":"...	

« Previous | Next

Logs

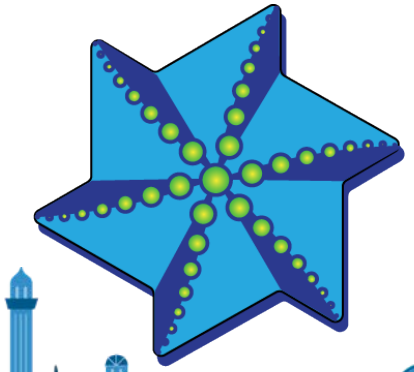
e28efbf9-931e-43b3-88b3-e78df531c590-DefaultResourceGroup-WEU

e28efbf9-931e-43... | Select scope | ▷ Run

```
1  source
2  | where Properties.eventID == 'RT0018' //Long Running Query
```

TimeGenerated [UTC]	AppRoleInstance	AppRoleName	AppVersion
10/22/2024, 4:31:57.145 PM	N/A	N/A	N/A
10/22/2024, 4:14:02.748 PM	N/A	N/A	N/A
10/22/2024, 4:13:54.090 PM	N/A	N/A	N/A
10/22/2024, 4:13:48.681 PM	N/A	N/A	N/A
10/22/2024, 4:13:47.572 PM	N/A	N/A	N/A
10/22/2024, 3:34:43.679 PM	N/A	N/A	N/A
10/22/2024, 3:18:27.272 PM	N/A	N/A	N/A

0s 750ms | Display time (UTC+00:00)



Apply Cancel

Apply Cancel

What signals to filter out?

- RT0003 and RT0004 - Authorization Succeeded, log for webclient only, otherwise too many records
- ```
  (tostring(Properties.eventId) <> "RT0003" or
  tostring(Properties.clientType) == "WebClient")
  ```
- RT0006 - Report rendered: 1320 - Notification Email
- RT0008 - Incoming WS calls for specific publishers that generates large amount of API calls
- RT0019 - Outcoming WS calls for specific publishers that generates large amount of API calls


  ```

- RT0030 - Error dialogs with empty text (not really errors)
  - (tostring(Properties.eventId) <> 'RT0030' or tostring(Message) !startswith "Error dialog shown:" or Properties has "alErrorMessage")
- AL0000JBO - Posting Preview called
- AL0000E24 - Job Queue Lifecycle Job queue entry enqueued
- AL0000E25 - Job Queue Lifecycle Job queue entry started
- AL0000E26 - Job Queue Lifecycle Job queue entry finished
- AL0000CTV - Email sent
- LC0040 - Task XYZ created: TIME scheduled to run after DATETIME. Ready to run: True
- LC0043 - Task XYZ main codeunit ID completed.

source

```
| where not (tostring (Properties.eventId) in ("RT0003", "RT0004",
"RT0006", "RT0008", "RT0010", "RT0014", "RT0015", "RT0016", "RT0019",
"RT0020", "LC0024", "LC0025", "LC0040", "LC0042", "LC0043",
"LC0045"))

| where tostring(Properties.environmentType) == "Production"
```

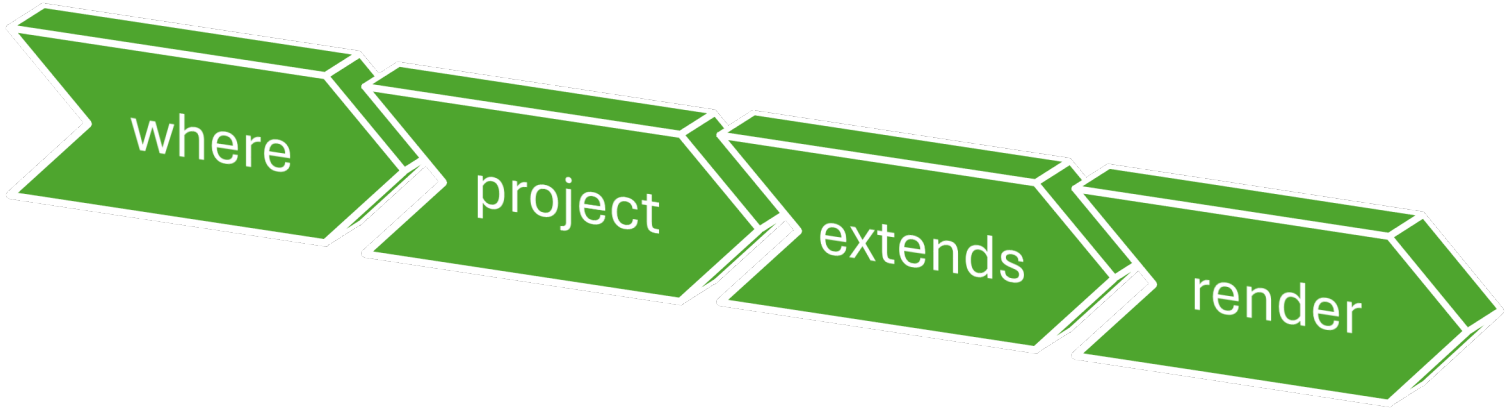
0 = Production, 1 = Sandbox

```
source | where tostring(Measurements.environmentType) == "0"
```

The “Properties.environmentType” is not currently available in AppPageViews, but there is a similar information in (**Measurements.environmentType**)

All Event IDs can be found at:

Power of KQL?


where
project
extends
render

Part 1 of KQL query – filter the data

where statement in Kusto Query Language (KQL) is used to filter rows in a dataset based on specified conditions.

```
| where <condition>
```

You can use various operators to define your conditions, such as ==, !=, >, <, >=, <=, and logical operators like and, or, and not.

Part 1 of KQL query – filter the data

- Examples -

Filtering by Timestamp To filter telemetry data to only include entries from the last 7 days:

```
traces | where timestamp > ago(7d)
```

Filtering by Specific Value To filter data where a specific column matches a certain value:

```
traces | where customDimensions.eventId == 'RT0018’
```

Part 1 of KQL query – filter the data

Combining Multiple Conditions You can combine multiple conditions using logical operators:

```
traces | where timestamp > ago(7d) and
customDimensions.eventId == 'RT0018’
```

Using in Operator To filter rows where a column’s value is in a specified list:

```
traces | where customDimensions.eventId in ('RT0018',
'RT0019', 'RT0020')
```

Part 1 of KQL query – filter the data

- Practical examples -

Filtering by signals:

```
| where customDimensions.eventId == 'RT0018’
```

Filtering by environment type, whether it’s production or sandbox:

```
| where tostring(customDimensions.environmentType)
== "Production“
```

Part 1 of KQL query – filter the data

- Practical examples -

Filtering by checking if AL Stack Trace contains something:

| where customDimensions.alStackTrace contains XZY

XYZ – could be some Object Id for example

Part 1 of KQL query – filter the data

- Practical examples -

Filtering by Azure Tenant ID:

```
| where not (tostring (customDimensions.aadTenantId) contains “aadTenatID")
```

Filtering by Extension Version:

```
| where (tostring (customDimensions.extensionVersion) contains “1.2.3.4")
```

Filtering by AL Object Type:

```
| where tostring(customDimensions.alObjectType) != ‘Codeunit'
```

Part 2 of KQL query – limit the number of columns

project statement in Kusto Query Language (KQL) is used to select specific columns from a dataset and optionally rename them.

The basic syntax for the project statement is:

```
| project <column1>, <column2>, <column3>
```

or

```
| project NewColumnName = OldColumnName
```

Part 2 of KQL query – practical examples

```
| project timestamp
// in which environment/company did it happen
, aadTenantId = customDimensions.aadTenantId
, environmentName = customDimensions.environmentName
, environmentType = customDimensions.environmentType
, companyName = customDimensions.companyName
// in which extension/app
, extensionId = customDimensions.extensionId
, extensionName = customDimensions.extensionName
, extensionVersion = customDimensions.extensionVersion
, extensionPublisher = customDimensions.extensionPublisher
// in which object
, alObjectId = customDimensions.alObjectId
, alObjectName = customDimensions.alObjectName
, alObjectType = customDimensions.alObjectType
```

Part 3 of KQL query – add new columns

extend statement, allows you to add new columns to your dataset, enabling deeper insights and more customized data analysis.

The basic syntax for the extend statement is:

| extend NewColumnName = <expression>

You can use various expressions to define the new column's values, such as arithmetic operations, string manipulations, or functions.

Part 3 of KQL query – add new columns

- Practical examples –

```
| extend extensionVersion = tostring
(customDimensions.extensionVersion)
```

```
| extend executionTime = totimespan
(customDimensions.executionTime) / 1ms
```

```
| extend renderTimeInMS = totalTimeInMS –
serverExecutionTimeInMS
```

Part 4 of KQL query – rendering charts

render statement in Kusto Query Language (KQL) is used to visualize query results in various chart formats.

The basic syntax for the render statement is:

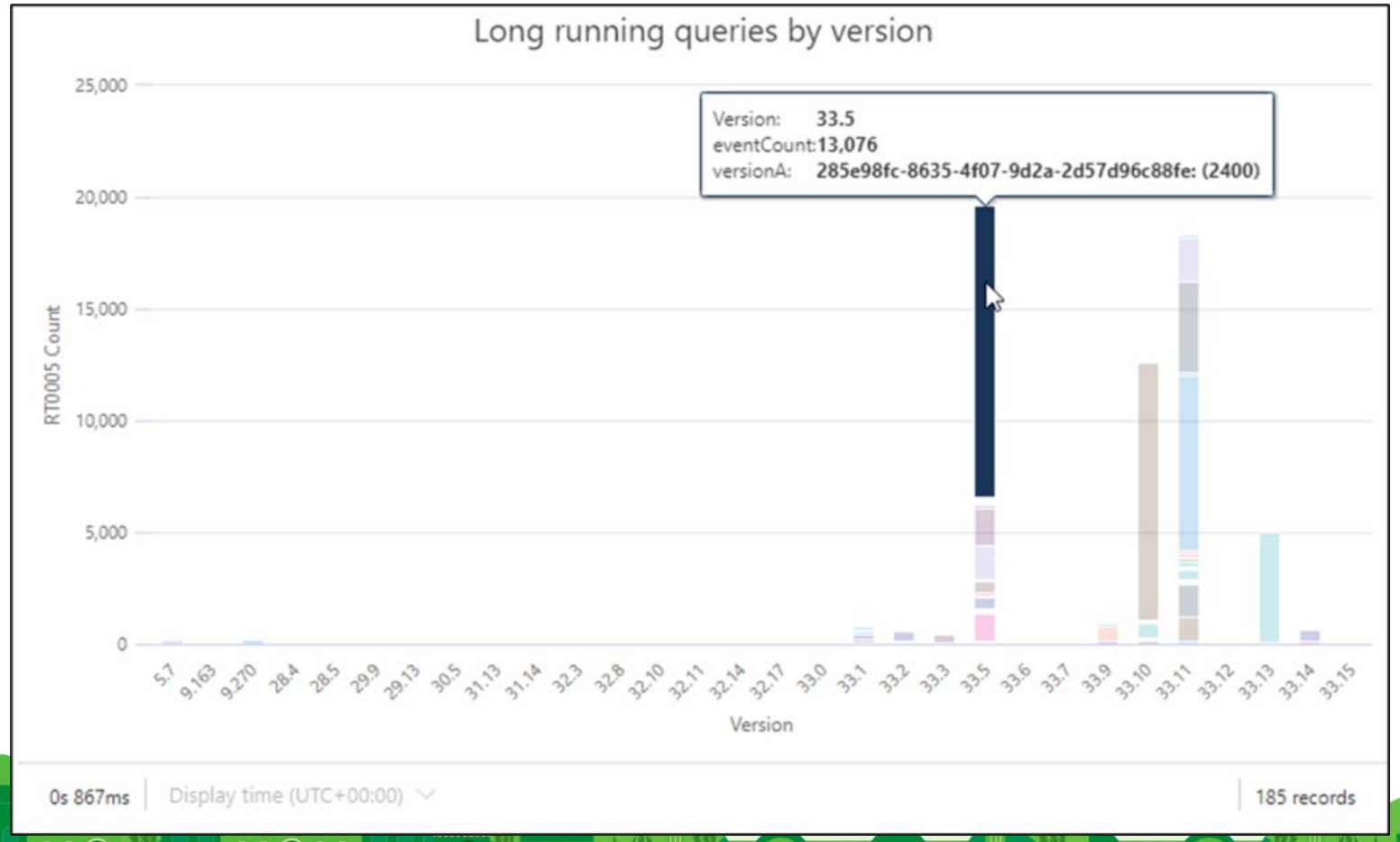
| render <chart_type>

You can specify different chart types such as **columnchart**, **areachart**, **barchart**, **piechart**, and more.

Part 4 of KQL query – rendering column chart

```
| render columnchart
        with (
                legend=hidden,
                xtitle="Version",
                ytitle="RT0005 Count",
                title="Long running queries by version")
```

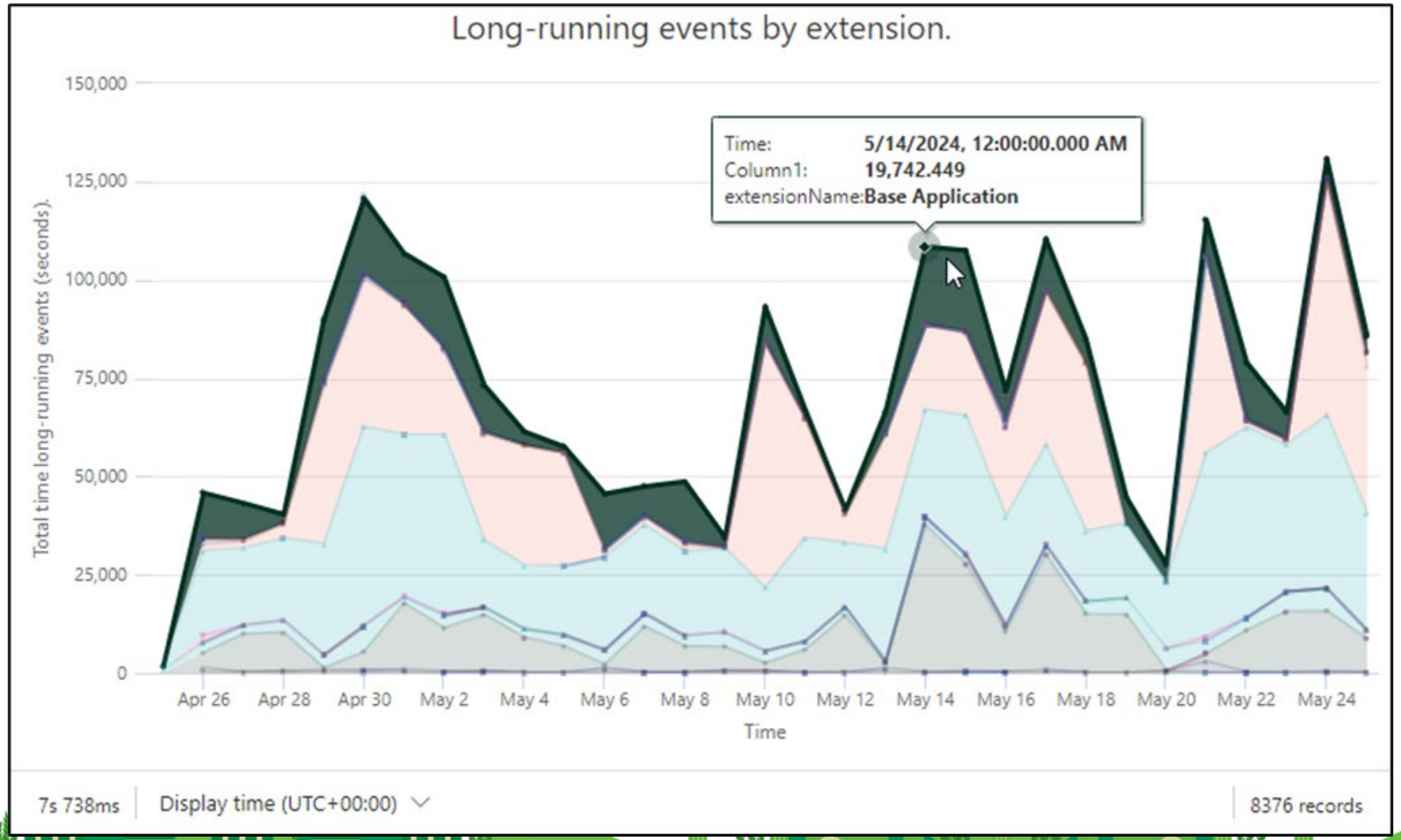
Part 4 of KQL query – rendering column chart



Part 4 of KQL query – rendering area chart

```
| render areachart
        with (
                legend=hidden,
                accumulate=true,
                kind=stacked,
                xtitle="Time",
                ytitle="Total time long-running events (seconds).",
                 title="Long-running events by extension.")
```

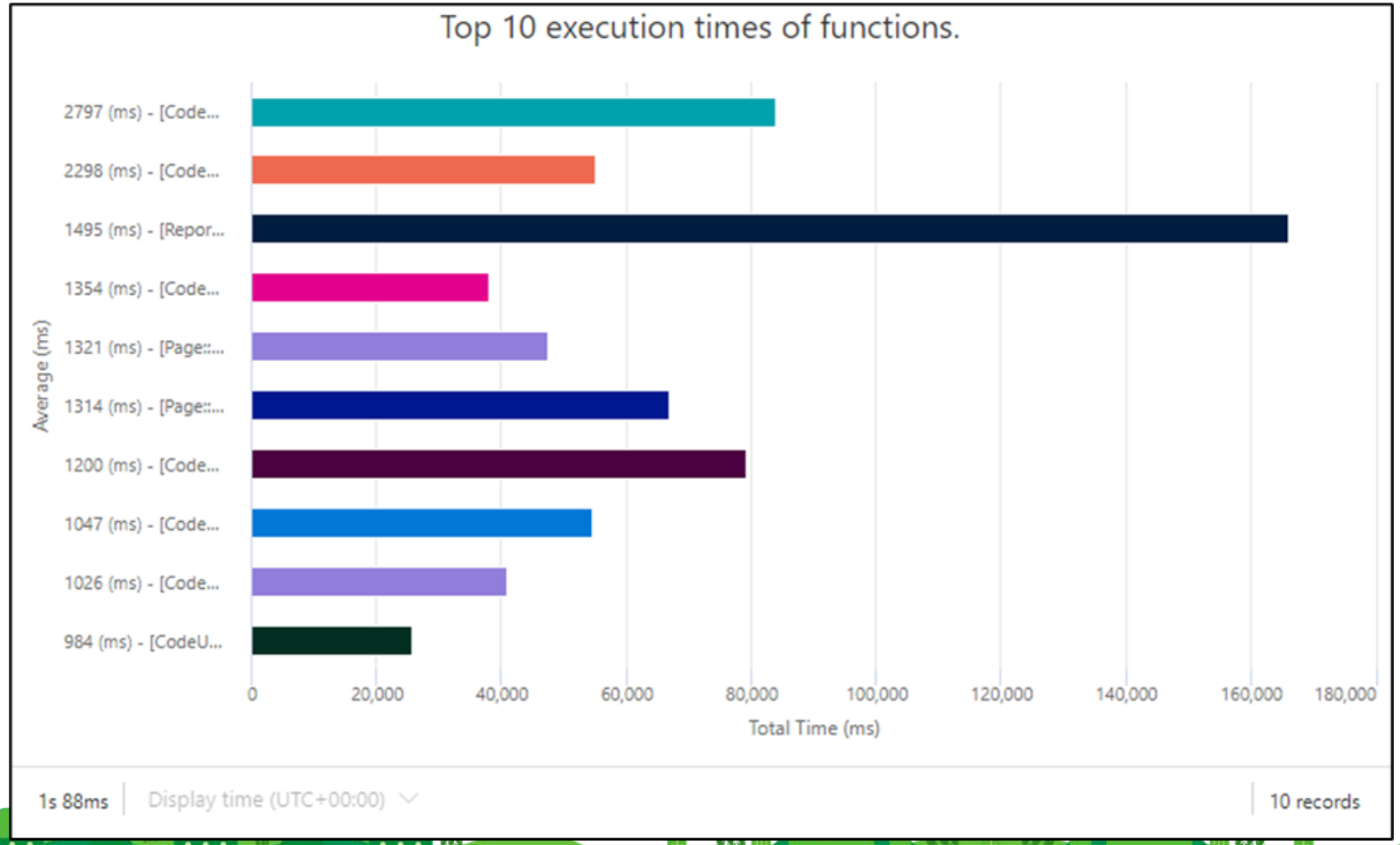
Part 4 of KQL query – rendering area chart



Part 4 of KQL query – rendering bar chart

```
| render barchart
        with (
                xcolumn = functionName,
                xtitle="Average (ms)",
                title='Top 10 execution times of functions.',
                ycolumns=sumExecutionTime,
                ytitle="Total Time (ms)",
                legend=hidden)
```

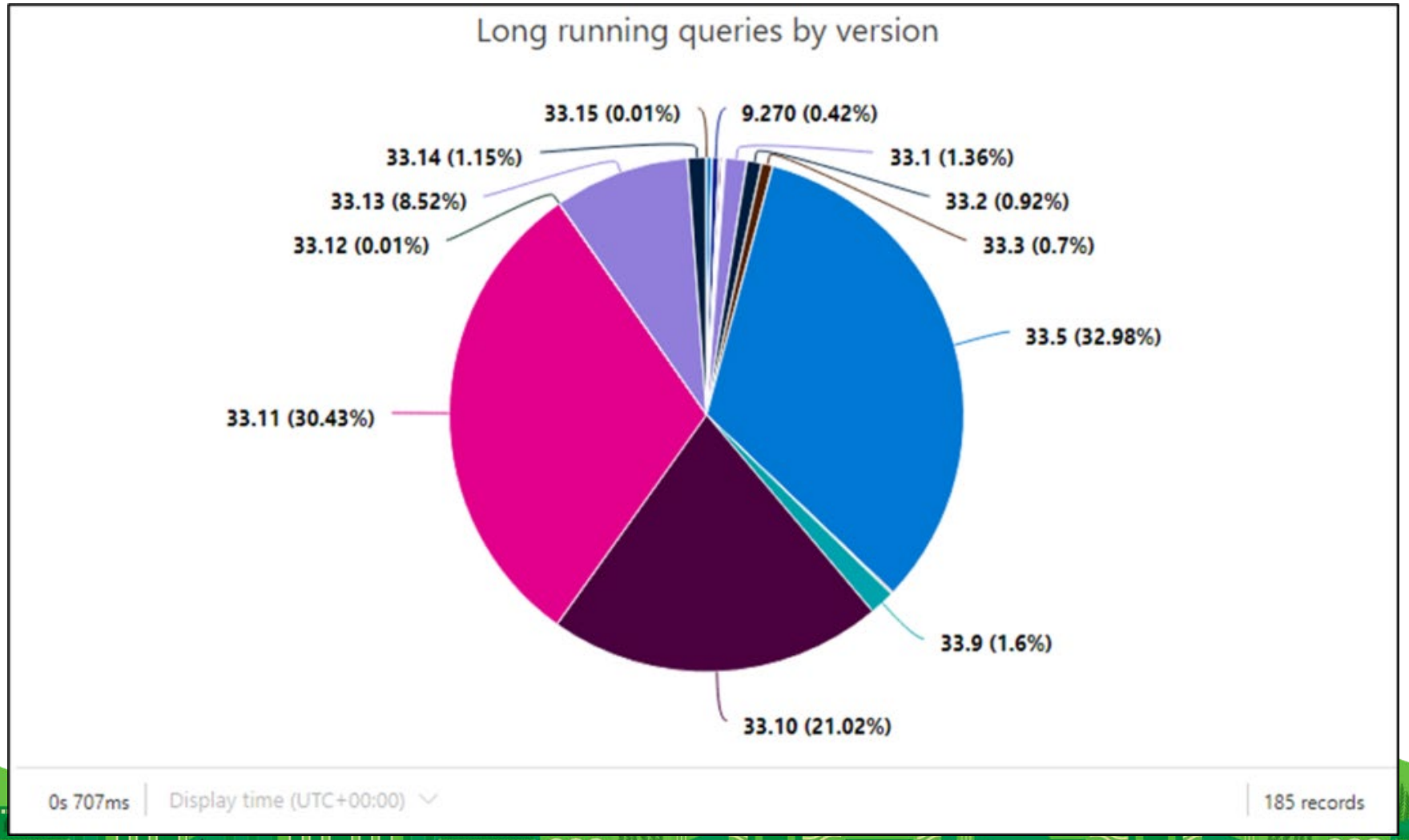
Part 4 of KQL query – rendering bar chart



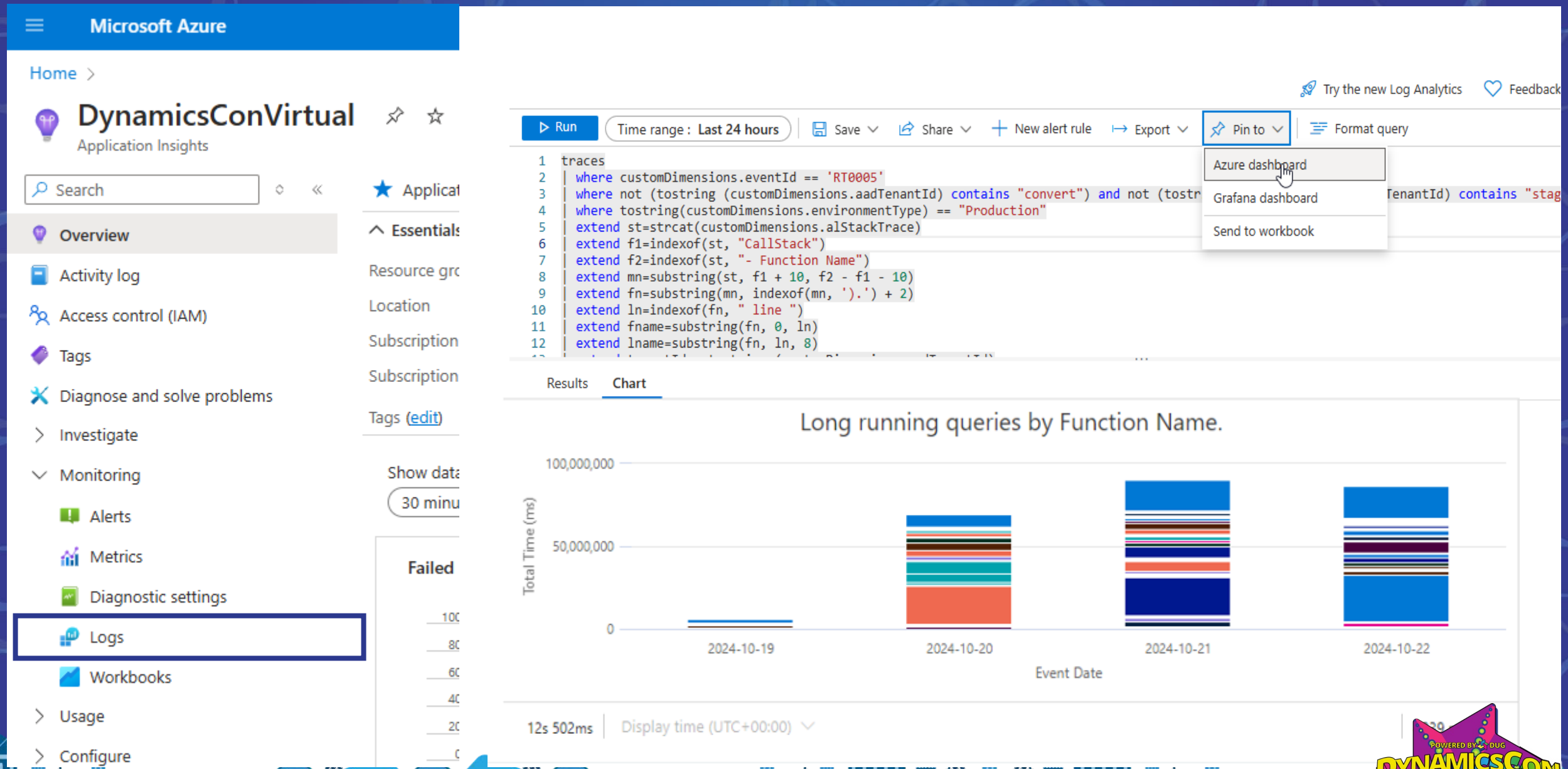
Part 4 of KQL query – rendering pie chart

```
| render piechart
        with (
                legend=hidden,
                xtitle="Version",
                ytitle="RT0005 Count",
                title="Long running queries by version")
```

Part 4 of KQL query – rendering pie chart



Add it to dashboard?


Microsoft Azure
Home
DynamicsConVirtual
Application Insights
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Investigate
Monitoring
Alerts
Metrics
Diagnostic settings
Logs
Workbooks
Usage
Configure
Essentials
Resource gro
Location
Subscription
Subscription
Tags (edit)
Show data
30 minu
Failed
Try the new Log Analytics
Feedback
Run
Time range : Last 24 hours
Save
Share
New alert rule
Export
Pin to
Format query
Azure dashboard
Grafana dashboard
Send to workbook
1 traces
2 | where customDimensions.eventId == 'RT0005'
3 | where not (tostring (customDimensions.aadTenantId) contains "convert") and not (tostr
4 | where tostring(customDimensions.environmentType) == "Production"
5 | extend st=strcat(customDimensions.alStackTrace)
6 | extend f1=indexof(st, "CallStack")
7 | extend f2=indexof(st, "- Function Name")
8 | extend mn=substring(st, f1 + 10, f2 - f1 - 10)
9 | extend fn=substring(mn, indexof(mn, ').') + 2)
10 | extend ln=indexof(fn, " line ")
11 | extend fname=substring(fn, 0, ln)
12 | extend lname=substring(fn, ln, 8)
Results
Chart
Long running queries by Function Name.
100,000,000
50,000,000
0
Total Time (ms)
2024-10-19
2024-10-20
2024-10-21
2024-10-22
Event Date
12s 502ms
Display time (UTC+00:00)

Samples!
aka.ms/BCTelemetrySamples

Alerts

Alerts features

- Time-Savers
  - Set and Forget
  - Instant Notifications
- Consistency is a Key
  - 24/7 alertness
  - Human Error Reduction
- Proactive Problem Solving
  - Early Detection
  - Swift Response
- Data-Driven Decisions
  - Real-Time Insights
  - Trend Analysis

ISV and VAR Alerts Responsibilities

Condition	Event Id(s)	ISV	VAR
AppSource validation failures	LC0035	X	
Database performance	RT0005	X	X
Email Errors	AL0000CTP		X
Extension failed to install	LC0011	X	X
Extension failed to upgrade	RT0010	X	X
Environment failed to update	LC0107		X
Error dialog	RT0030		X
Job Queue errors	AL0000E26		X

Select scope | ▷ Run | Time range : **Set in query** | Save | Share | New alert rule

```
traces
| where timestamp > ago(1d) // adjust as needed
    and customDimensions.eventId == 'AL0000HE7'
| project timestamp
, aadTenantId = customDimensions.aadTenantId
, environmentName = customDimensions.environmentName
, environmentType = customDimensions.environmentType
, alJobQueueId = customDimensions.alJobQueueId
, alJobQueueObjectId = customDimensions.alJobQueueObjectId
, alJobQueueObjectType = customDimensions.alJobQueueObjectType
, alJobQueueStatus = customDimensions.alJobQueueStatus
, alJobQueueExecutionTimeInMs = customDimensions.alJobQueueExecutionTimeInMs
, alJobQueueStacktrace = customDimensions.alJobQueueStacktrace // stack trace added in 20.5
```

Measurement

Select how to summarize the results. We try to detect summarized data from the query results automatically.

Measure: Table rows

Aggregation type: Count

Aggregation granularity: 1 hour

Split by dimensions

Use dimensions to monitor specific time series and provide context to the fired alert. Dimensions can be either number or string columns. If you select more than one dimension value, each time series that results from the combination will trigger its own alert and will be charged separately.

Dimension name	Operator	Dimension values	Include all future values

Alert logic

Operator *: Greater than

Threshold value *: 1

Frequency of evaluation *: 1 hour

Estimated monthly cost **$0.50 (USD)**

Home > DynamicsMinds | Logs > Create an alert rule >

Create action group ...

Basics | **Notifications** | Actions | Tags | Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type	Name	Selected
Email/SMS message/Push/Voice		

Email/SMS message/Push/Voice

Add or edit Email/SMS message/Push/Voice action

- [ ] Email
  - Email
- [ ] SMS (Carrier charges may apply)
  - Country code: 1
  - Phone number
- [ ] Azure mobile app notification
  - Azure account email
- [ ] Voice
  - Country code: 1
  - Phone number

OK


Q&A