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Monitorare le App con Azure Application Insights

Marco Caruso

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Agenda

- What is Application Insights?
- Why Monitoring the apps?
- Setup
- Trace Custom
- Demo
- Q&A

APPLICATION INSIGHTS: WHAT IS?

Application Insights is an extension of Azure Monitor and provides Application Performance Monitoring (“APM”) features. APM tools are useful to monitor applications from development, through test, and into production in the following ways:

- **Proactively** understand how an application is performing.
- **Reactively** review application execution data to determine the cause of an incident.

In addition to automatically detecting performance anomalies, it includes advanced analysis tools that allow you to diagnose problems and understand how users are actually using the app

APPLICATIOINSIGHTS: FEATURES

The features are:

Live Metrics: observe activity from your deployed application in real time with no effect on the host environment

Availability : also known as “Synthetic Transaction Monitoring”, probe your applications external endpoint(s) to test the overall availability and responsiveness over time

Usage : understand which features are popular with users and how users interact and use your application

Smart Detection: automatic failure and anomaly detection through proactive telemetry analysis

WHY USE APPLICATION INSIGHTS?

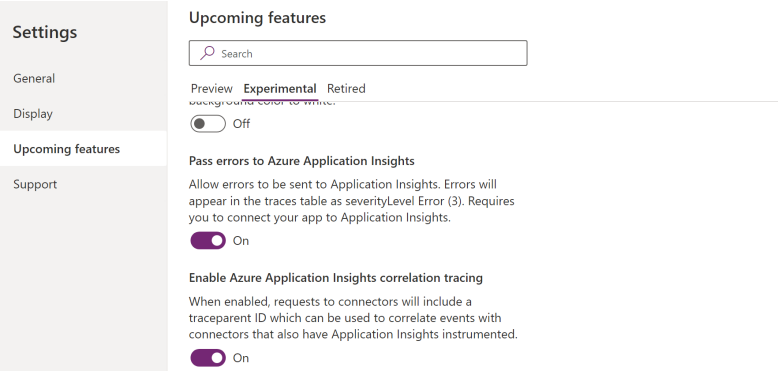
- For the performance
- To see if the application is working properly
- For Analisys on number of:
  - Users
  - Sessions
  - Devices
- Insert trace custom for logging the application
- Create and using dashboard for show the data

WHY IN POWER APPS?

- Having a single place to do monitoring
- Monitoring Dataverse API
- You don't necessarily have access to the production environment
- Monitor calls to custom connectors
- Essential for canvas apps embedded in dataverse forms

SETUP

- Model Driven and Dataverse:
  - Settings the export data from Admin Portal for each Enviroment
  - All Apps are under monitoring
  - Using “Session ID” in to query for get single form
- Canvas App:
  - Insert in each App the instrumentation key
  - Can set the error unmanaged to send to Application Insights
    - Attention that feature is Experimental



TRACE CUSTOM

In Canvas App can write the functions to insert trace log, using the function **Trace** with four levels:

- Critical
- Information
- Warning
- Error

with the possibility of inserting custom dimension for details:

```
Trace("App HelpDesK",
Information,
    {
        UserName: User().FullName,
        UserEmail: User().Email,
        Screen: App.ActiveScreen.Name,
        FeebbackValue: "Login user"
    }
);
```

DEMO:

OVERVIEW APM
SETUP
TRACE CUSTOM

WHAT TELEMETRY AND TABLES ARE POPULATED IN APPLICATION INSIGHTS

Telemetry Type	Table Name
Unified Interface page loads	pageViews
Unified Interface outbound network requests	Dependency
Dataverse API incoming calls	Request
Plug-in executions	Dependency
SDK executions (*Retrieve*, *RetrieveMultiple*, *FetchXML* trans formation, and so on)	Dependency
Exceptions during the execution of plug-in and SDK calls	Exceptions

Any Questions?

Please fill out the survey!

https://aka.ms/gppb23mifeedback

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