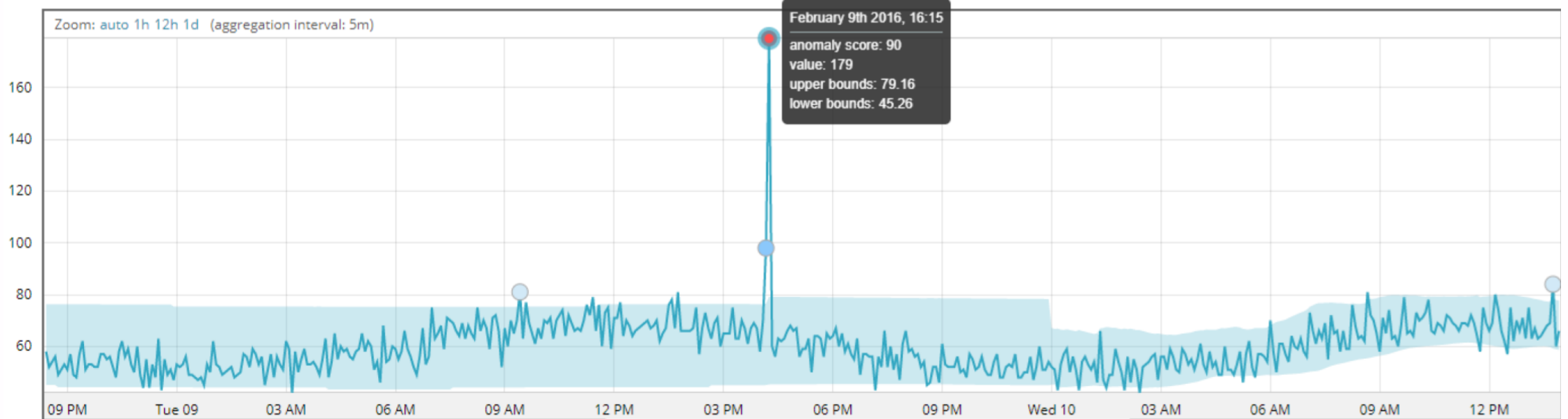


Smart detection and alerts with Application Insights

 Yudner Paredes

 yudner_paredes@outlook.com

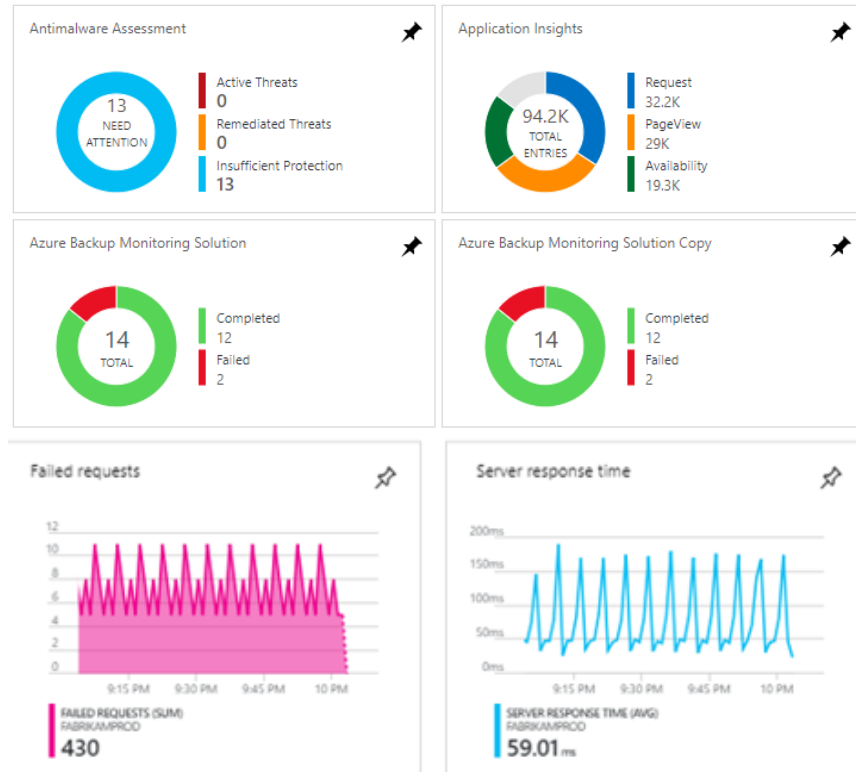
Application anomalies



Una anomalía es cualquier condición que se desvíe de las expectativas basadas en las especificaciones de requisitos, documentos, etc. O de la percepción o experiencia de alguien.

[IEEE 1044]

Microsoft Azure services



Azure Monitor

- Metric queries and Alerts
- Log Analytics
- Application insights

Application Insights



From server web apps:

- ✓ HTTP requests
- ✓ Dependencies
- ✓ Exceptions
- ✓ Performance Counters
- ✓ Custom events and metrics
- ✓ Trace logs

From client web pages

- ✓ Page view counts
- ✓ AJAX calls
- ✓ Page view load data
- ✓ User and session counts
- ✓ Authenticated user IDs



Application Insights for developers

C# | VB (.NET)

Node.JS

Java

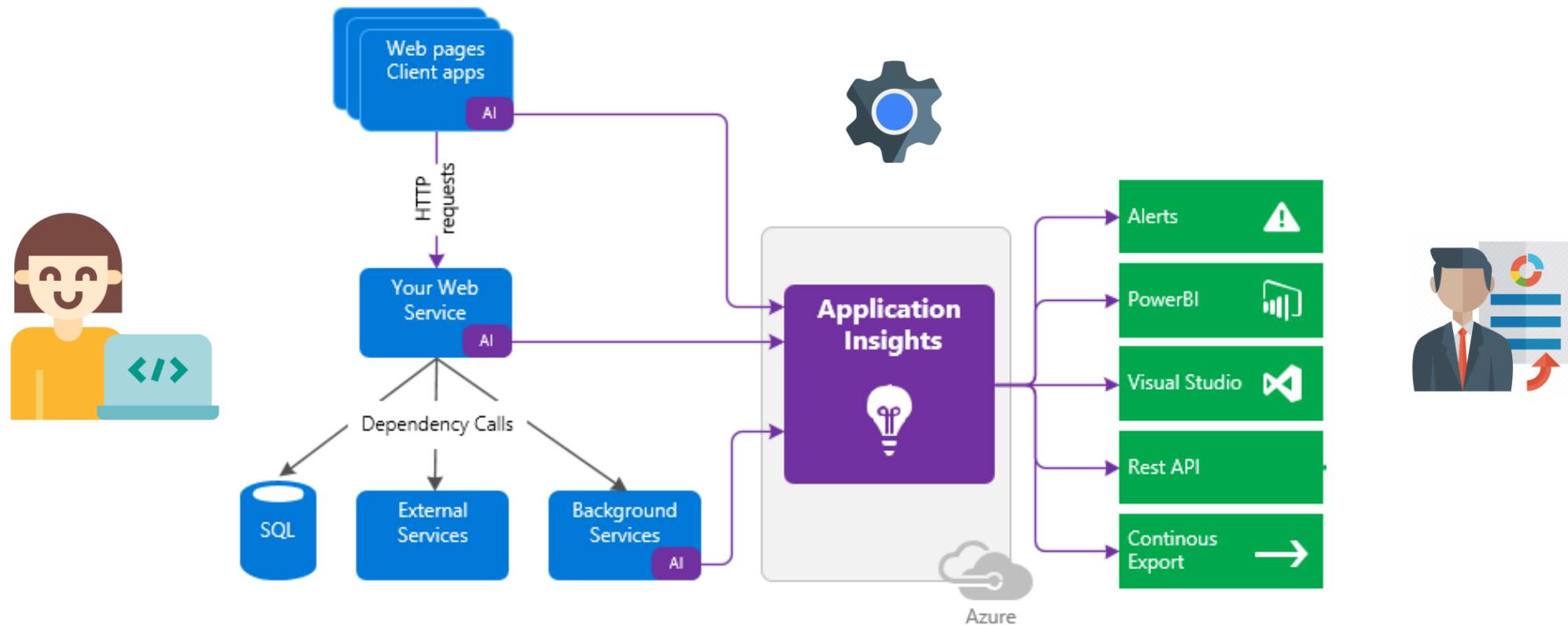
JavaScript

Python



<https://docs.microsoft.com/en-us/azure/azure-monitor/app/platforms>

Application Insights Process



<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

Smart detection

Smart Detection automatically warns you of potential performance problems and failure anomalies in your web application.



What problems are detected?

- Failure Anomalies
- Performance Anomalies
- Trace degradation
- Memory leak
- Rise in Exception
- Security anti-patterns



Failure Anomalies



Abnormal increase in the frequency of erroneous requests.

Unusual rise in the rate of HTTP requests or dependency calls that are reported as failed.

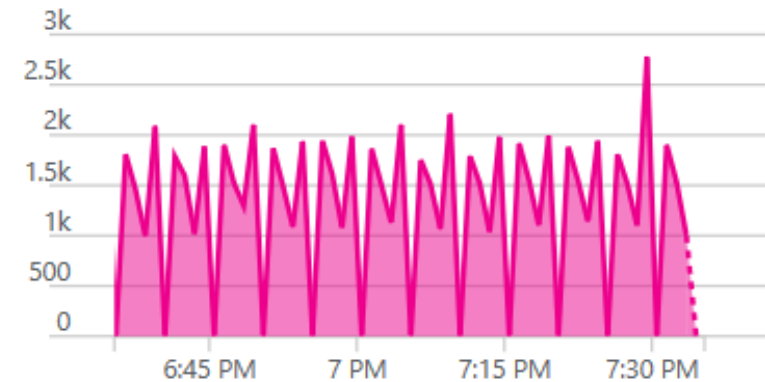


Performance Anomalies

Response time degradation

Dependency duration degradation

Slow performance pattern



Memory leak

Consistent increase in memory consumption over a long period of time, in one or more processes and/or one or more machines, which are part of your application.

Rise in Exception

The exceptions thrown in your application, and can warn you about unusual patterns in your exception telemetry.

Security anti-patterns

Automatically analyzes the telemetry generated by the application and detects possible security problems.



DEMO

¿Preguntas?

