



VZOR Brain Monitor 2021

"Innovative functionality that predicts incidents based on a service catalog."

Ver 1.1



Our company

"We deliver technological services aimed at solving the problems of management, processes and monitoring that businesses require in the era of Digital Transformation."

+20 Corporate Contracts

+700 Monitored applications

+12.000 Monitored equipment

50% Growth rate

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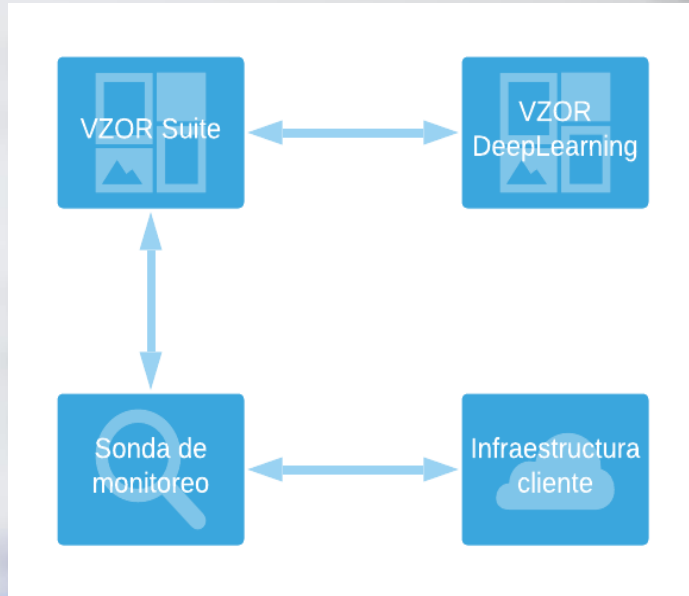
Organizational Challenges

- The Covid-19 pandemic advanced the digital transformation process between 6 to 10 years.
- Modern infrastructure and applications are elastic.
- Complex and dynamic systems, increases review and analysis time.
- Need to simplify monitoring and management.
- Accelerated migration to Cloud solutions.
- Those who do not address and solve the challenge will gradually disappear or see their business greatly diminished.



VZOR Brain Monitor

Innovative functionality of the VZOR Suite 360° Platform, capable of predicting incidents based on a catalog of services. This allows VZOR Suite 360° to provide new tools such as: early detection of incidents; establish abnormalities in behaviors; define confidence thresholds and; carry out analysis of different scenarios.



Main features

- **Anomaly detection** and predictive incident monitoring.
- **Incremental and progressive** improvement in the performance of detections and predictions, specific to each organization.
- **Use of advanced techniques** of predictive analysis Deep Learning.
- **Modeling by service** via monitoring and metrics.
- **It is not required to set criteria** manually, the application is dynamic and automatic.
- **Proactive management based on data**, generates intelligent alerts, eliminating false positives.

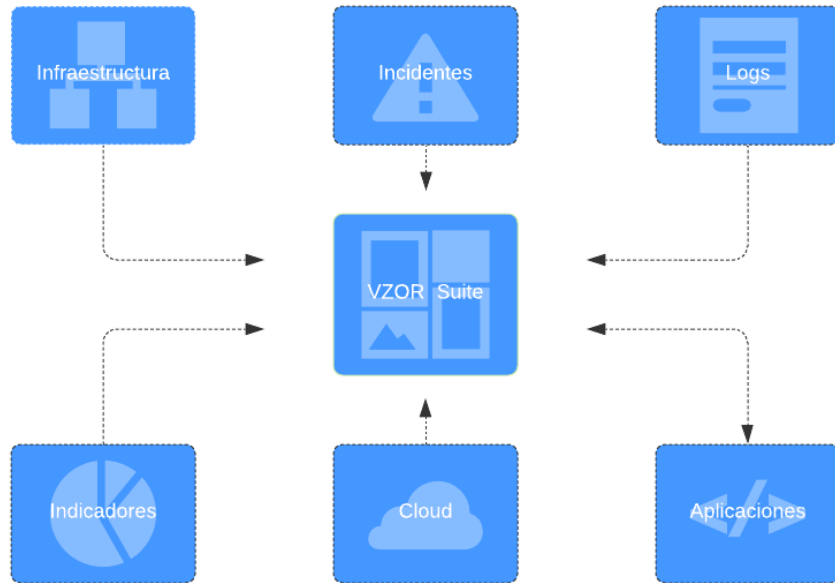
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VZOR Brain Monitor – Architecture



VZOR Suite 360°, being the main axis of 360-degree monitoring, becomes the main entity in the collection, classification and storage of data in the organization.

In order to take advantage of all this stored information, analytical and machine learning models are created, such as Deep Learning.

Thanks to this, VZOR Brain Monitor is able to predict behaviors, even within a period of 3 hours.

This allows the VZOR Suite 360° Platform to deliver new tools such as: early detection of incidents in monitored business services, establish behavioral anomalies, define confidence thresholds and carry out scenario analysis.

VZOR Brain Monitor - Results

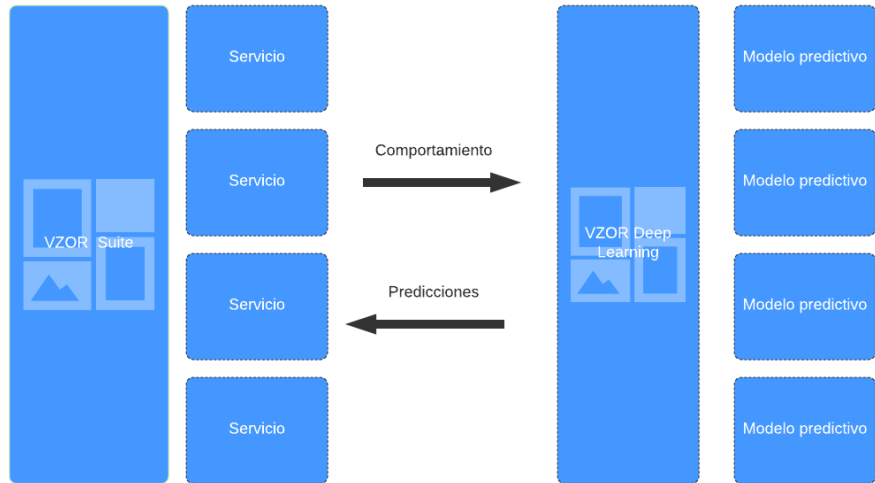
With all the information centralized in VZOR Suite 360, Brain Monitor implements predictive models, with the following results being:

- **Prediction of incidents** within the next 3 hours in a service.
- **Behavior analysis** of the last 5 hours of each service monitoring.
- **Punctual prediction** and its interval, for the behavior of each service monitoring.
- **Behavior prediction** by metric, allowing the possibility of generating scenarios where variables can be exchanged to see possible results based on the trained model.



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Funcionamiento VZOR Brain Monitor



1. VZOR Suite 360 almacena todos los registros de cada monitoreo de la organización y, adicionalmente, cuenta con un catálogo de servicios donde se relaciona el monitoreo con los servicios del negocio.
2. Se construye un modelo predictivo en base al comportamiento de estos elementos.
3. Estos modelos se entrenan con determinada frecuencia y son los que permiten la predicción de incidentes, umbrales de confianza y generación de escenarios.
4. VZOR Brain Monitor, toma el comportamiento de cada servicio y lo procesa contra el modelo, para generar el grupo de predicciones y de análisis.

Requirements

A different server is required where VZOR Suite is implemented.

At least one correctly related service.

At least one month of data for each monitoring within the service.

The server where the training will take place must have bi-directional communication against the VZOR Suite solution.

Hardware:

For the model loaded in memory and to be used to predict this it takes around 500 MB to 800 MB of server memory, in addition the training process consumes 4GB of RAM per model.

The memory is by service to train 500/800 MB of RAM and after obtaining this result add 4GB to carry out the workouts.

Compute Recommended Hardware: 8 Processing Cores are recommended for these scenarios. The processing of the models is sequential, so the server will only require time for this process.

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What's coming...

Extended anomaly detection:

- Punctual
- Subsequence
- Data series

Automatic root cause analysis of incidents.

Specific monitoring of services (example: database).

** I Semestre 2021*

Value Added VZOR Services

Team of expert engineers in innovation, development and information technology.

- **VZOR Suite 360°** Solution Flexible, scalable and customizable.
- **Information for strategic**, tactical and operational management.
- **More than a supplier**, a partner you can trust for business monitoring services.
- **Predictive and proactive** monitoring (based on Deep Learning).
- **Consolidation of data** centralization and monitoring functions.
- **Decrease in operating costs** for licensing, man hours and support services and operation of different solutions.

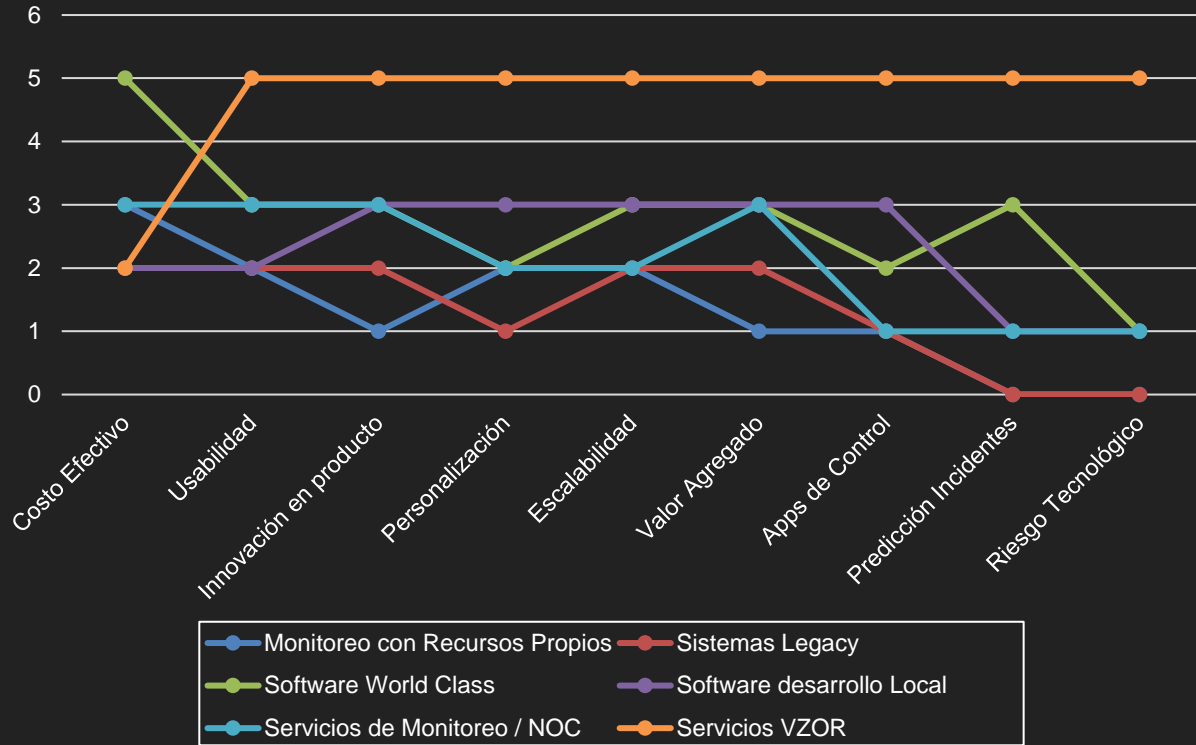
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Comparative VZOR

Features	Monitoring 2.0 Legacy	Integral Monitoring 3.0 VZOR SUITE
Automation of alarms and escalations	✗	✓
Catalog-based monitoring of services and their dependencies	✗	✓
Automation of reports by groupings and specific certified elements	✓	✓
Learning intelligence of the metrics obtained through monitoring	✗	✓
360° monitoring incorporating views for the business	✗	✓
Decoupled and H.A architecture with multi-site failover	✗	✓
100% centralized data in the same storage engine	✗	✓
Ideal multi-tenant solution for service providers	✗	✓

VZOR v/s Competencia





VZOR

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