



## CASE STUDY

Implementation of a tailored monitoring solution for a Node Management Platform

### CHALLENGES

Our client's primary service revolves around the meticulous management and proactive monitoring of blockchain nodes for their customers.

This encompasses the consistent validation of endpoint health, ensuring that all nodes are functioning optimally, providing real-time visualizations of node status and performance metrics, and analyzing resource utilization metrics like CPU, memory, and disk space to address issues proactively.

### SOLUTIONS

To address these challenges, our team developed a comprehensive monitoring solution leveraging custom exporters, Prometheus, and Grafana.

The implementation of this solution followed a structured approach:

1. Identifying the key metrics and defining the data collection and visualization strategy.
2. Building the custom exporters and configuring Prometheus and Grafana.
3. Rolling out the exporters across all nodes and setting up the Prometheus and Grafana infrastructure.
4. Continuously monitor the performance of the solution and make iterative improvements based on feedback and observed performance.

### BENEFITS

The deployment of the custom monitoring solution brought significant benefits to the client:

1. **Enhanced Visibility:** Both the technical team and customers gained real-time insights into the status and performance of their blockchain nodes.
2. **Improved Reliability:** The proactive monitoring and alerting mechanisms reduced downtime and improved the overall reliability of the nodes.
3. **Resource Optimization:** Detailed performance metrics enabled better resource management, reducing costs and improving efficiency.
4. **Customer Satisfaction:** With clear visibility and timely support, customer satisfaction and trust in Rapid Node's services increased significantly.

### TECH STACK

- Python
- Prometheus
- Grafana
- Node-Exporter
- Alert Manager

### EUPHORIC THOUGHT TECHNOLOGIES

#### What we do?

- Software Product Engineering
- Cloud
- DevOps
- Data Engineering & ML
- ServiceNow Consulting

Visit us-  
[www.euphoricthought.com](http://www.euphoricthought.com)

Contact us-  
[sales@euphoricthought.com](mailto:sales@euphoricthought.com)