

VICTORIAMETRICS AND OPENCOSMOS BOLDLY TAKES EDGE COMPUTING TO THE EDGE OF SPACE

Submitted by: Positive Marketing

Thursday, 14 July 2022

Open-source scale-up VictoriaMetrics announces key role in solving the Earth's biggest problems from space with flexible scalable edge computing capabilities

London, 14 July 2022: VictoriaMetrics (<https://victoriametrics.com/>), the fast, flexible open source time series database monitoring solution, today announced its key role in assisting multi-satellite data platform Open Cosmos on its mission to solve the Earth's biggest challenges from space. The Ukrainian-based startup, founded by ex-engineers from Google, Cloudflare and Lyft, teamed up with pan-European space-tech pioneer Open Cosmos to power the launch of low Earth orbit (LEO) satellites.

A scalable solution for critical infrastructure fit for the stars

Finding an appropriate monitoring solution is a challenge for all rapidly scaling organisations. This was an especially pressing problem for Open Cosmos, whose expansion plans extend beyond the planet itself. The space mission service company which provides satellite constellation design and satellite manufacturing, testing, launch and in-orbit exploitation, needed an application that could provide insight into the data powering its numerous satellites.

After testing multiple tools, Open Cosmos opted for VictoriaMetrics, and integrated the open source platform into its tech stack for its mission-critical satellite control and data distribution platform. VictoriaMetrics was selected for its functionality, flexibility, and compatibility with the company's myriad of tools including its interoperability with the Prometheus API.

VictoriaMetrics was the only solution allowing the space team access to all the telemetries they needed to make sure satellites remain healthy by storing, querying, and providing alerts on a range of key ground metrics generated by the mission control software itself. The Open Cosmos team also leveraged VictoriaMetrics' vmagent which enables them to ingest metrics from satellites and ground equipment scattered across different labs and test facilities, before uploading them to the mission control software. VictoriaMetrics offered the flexibility to monitor not only the spacecraft, but also ground systems such as the recently announced DataCosmos (<https://www.open-cosmos.com/news/datacosmos-announcement>).

Pep Rodeja, Ground Segment Technical Lead of Open Cosmos, said: "The health of our customers' space assets is highly important, and VictoriaMetrics' monitoring is crucial for ensuring our satellites remain healthy, playing an indispensable role in powering our satellite alert system. We needed an easy to use solution to seamlessly apply our knowledge about operating servers to the space sector as scale. The fact that VictoriaMetrics is completely open source has been a massive benefit too, allowing us to fork the technology to space-specific problems far beyond our initial expectations."

A landmark year for VictoriaMetrics

The last 12 months have seen unprecedented growth for VictoriaMetrics, as it continues to provide

solutions to meet the explosive growth of use cases involving time series data and the complexity of monitoring which comes with this demand.

In April, the company announced its open source products had exceeded 50M downloads, including one million GitHub downloads.

The fast-growing VictoriaMetrics user base

(<https://www.opensourceforu.com/2022/05/the-open-source-monitoring-of-victoriametrics-achieves-new-milestones/>)

now counts technical teams using edge messaging platforms to power live and collaborative experiences at Aply (<https://ably.com/>), and leading online content visibility platform Semrush

(https://www.semrush.com/lp/sem-aeoy/en/?kw=semrush&cmp=UK_SRCH_Brand_Semrush_EN&label=brand_semrush&Net) part of its growing open source community.

Taking Edge Computing to the skies

According to Frost and Sullivan

(<https://www.techuk.org/resource/edge-computing-will-be-a-fundamental-part-of-cloud-adoption-in-2022.html>)

projections, about 90% of industrial firms will be using edge computing, data analysis, and solution development at data generation sites by the end of the year.

As part of its mission to help expand the limits of edge computing, and support the proliferation of use cases for this technology, VictoriaMetrics has been raising awareness and educating the market on potential use cases for edge computing. Other technologies VictoriaMetrics is closely associated with :

Cloud computing - a predecessor and inevitable part of edge computing

5G - technology which enables edge computing, making it powerful and reliable

IoT proliferation - rapid expansion of industries such as automotive, green energy, agriculture and logistics

The addition of Open Cosmos to its user base consolidates VictoriaMetrics in the edge computing market as it constantly improves its infrastructure, adding new features and facilitating fast edge computing in the new frontier of space.

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About VictoriaMetrics

VictoriaMetrics is a fast and scalable open source time series database and monitoring solution, with the company behind it focusing on helping individuals and organisations address their big data challenges through state-of-the-art monitoring and observability solutions.

VictoriaMetrics' platforms are simultaneously scalable, reliable, easy to use and cost-efficient. They address the needs of organisations with increasingly complex data volumes and the demand for an ever-better observability platform. The company boasts the highest ingestion rates, fastest query performance and smallest disk storage size.

VictoriaMetrics is headquartered in San Francisco with an expanding team distributed across Europe and the United States. The rapidly growing platform has over 50M downloads, thousands of users, and 100+ community contributors to date. Customers include Grammarly, Wix, Adidas and Brandwatch. For more information, please visit <https://victoriametrics.com>

About Open Cosmos

Open Cosmos designs, manufactures and operates satellites and has recently launched DataCosmos (<https://www.open-cosmos.com/news/datacosmos-announcement>), a data platform that unlocks an unparalleled access to space imagery and applications, all in support of solving the world's biggest challenges.

Open Cosmos is the perfect partner for those who want to monitor changes on Earth at a global scale, those who want to provide telecommunications services based on satellite constellations and those who want to test innovative space technologies in orbit. For more information visit www.open-cosmos.com, our Twitter and LinkedIn.

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