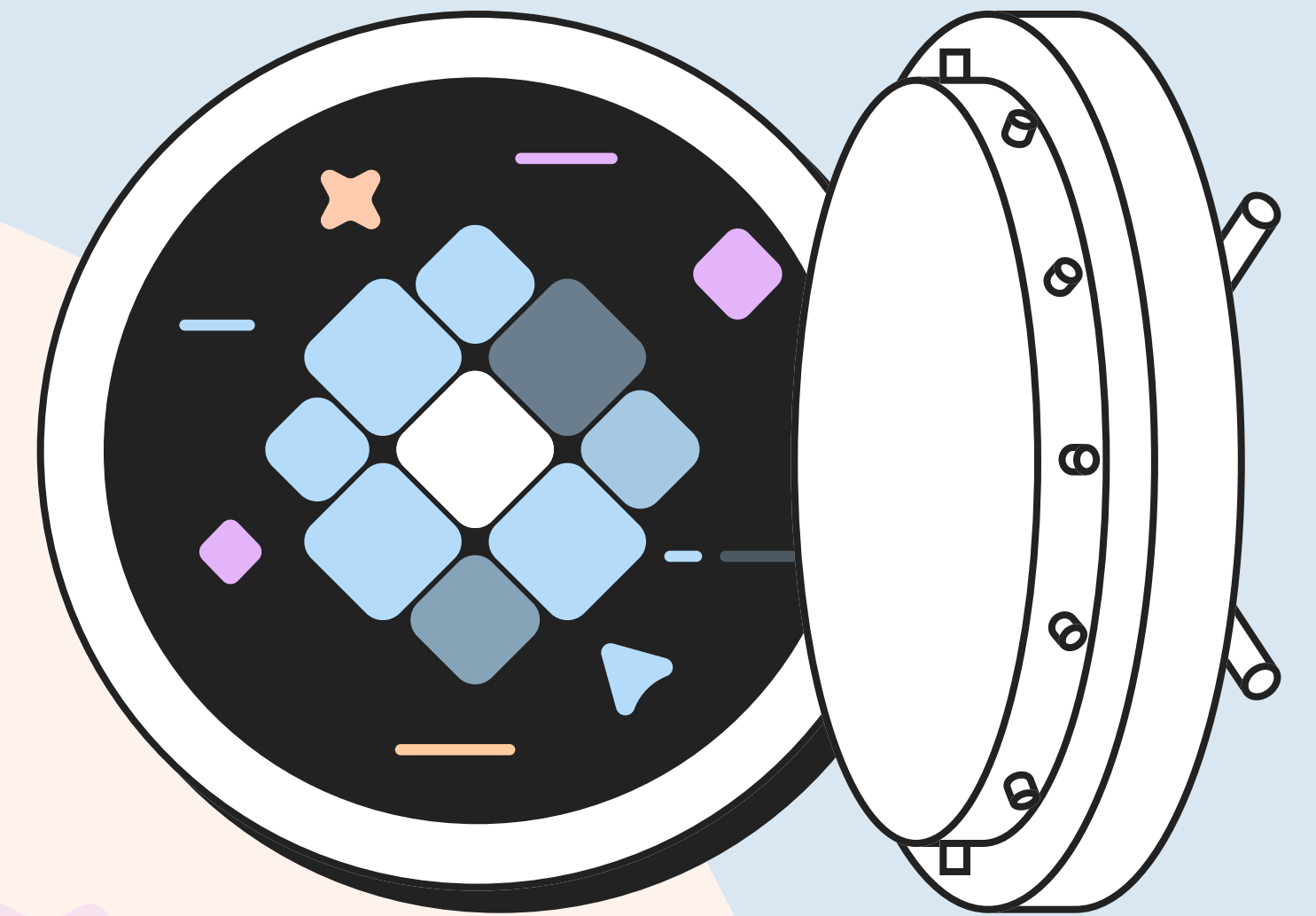


How we decreased the cost of blockchain infrastructure by 70%

And made its peak response time 62.5x
faster and more stable with the help of **RPC FAST**



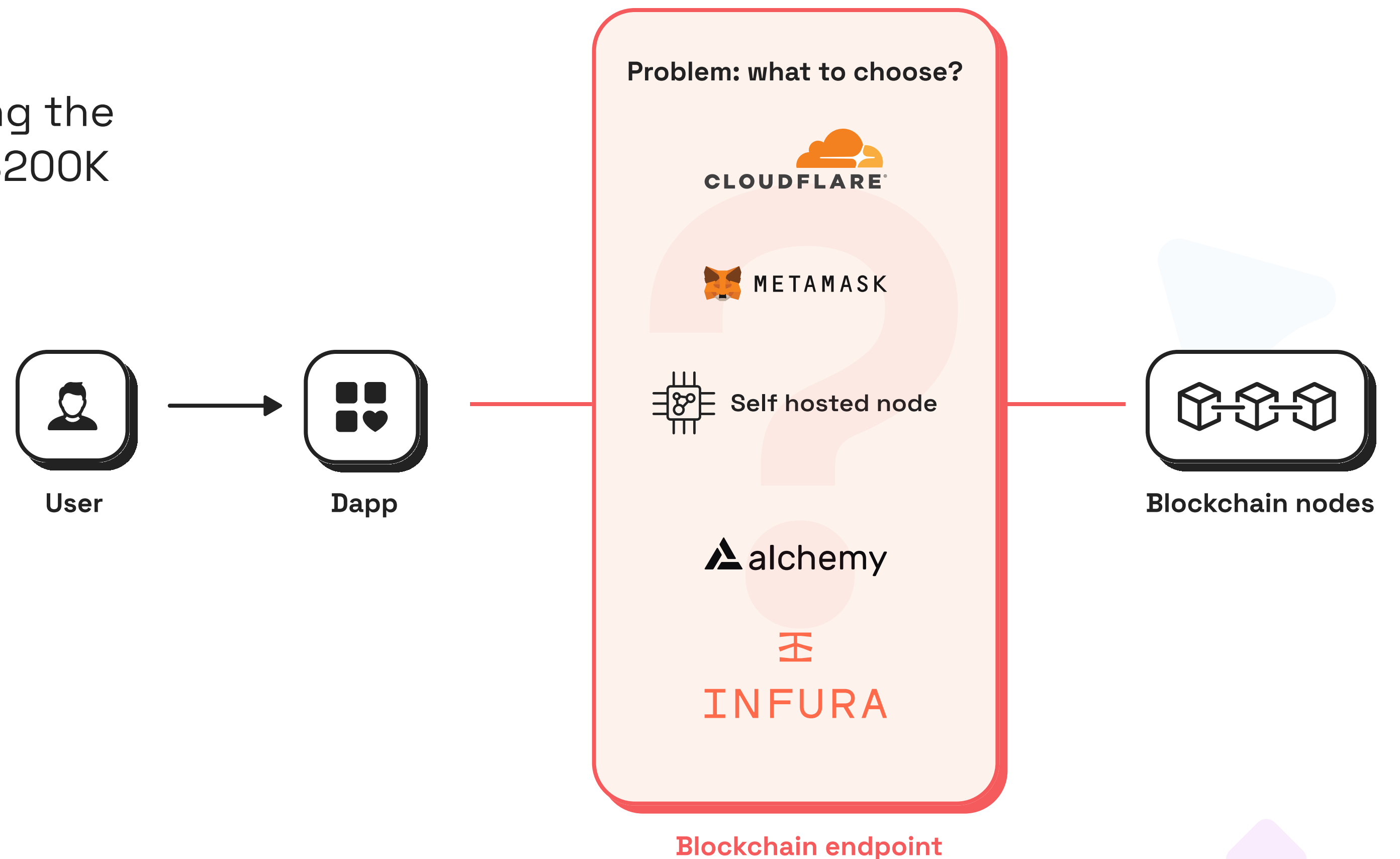
About the client:

A year ago, we got a request from a well-known company (**one of the top NFT Marketplaces in the BNB Chain**) whose infrastructure could serve about **2 billion blockchain requests per day**



Problems they had were the following:

- High monthly estimated costs for maintaining the blockchain infrastructure, which were over \$200K
- Regular downtimes of public endpoints
- Uncontrollable latency spikes caused delays for users up to 3270 ms
- End-users experienced delays and got errors when sending transactions using public BSC endpoints



Why they hired us?

- 8 years of DevOps and Blockchain experience
- Usage of our own time-tested solutions for increasing the stability and security of blockchain infrastructure
- Together with d5 we participated in the development of solutions for Google Cloud Platform, that provide open access to blockchain data
- We got used to handling projects with a load of 1.5 million requests per day and even more
- Our team provides top-notch services for 99.9% of SLA

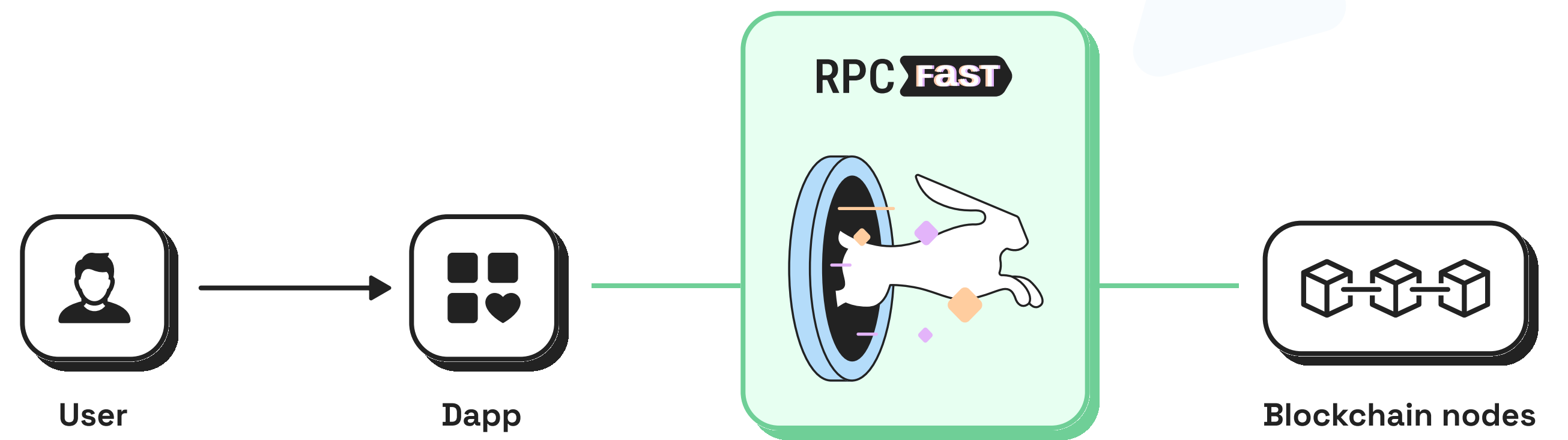


Solution we provided

Self-hosted **cluster with geo-distributed blockchain nodes**

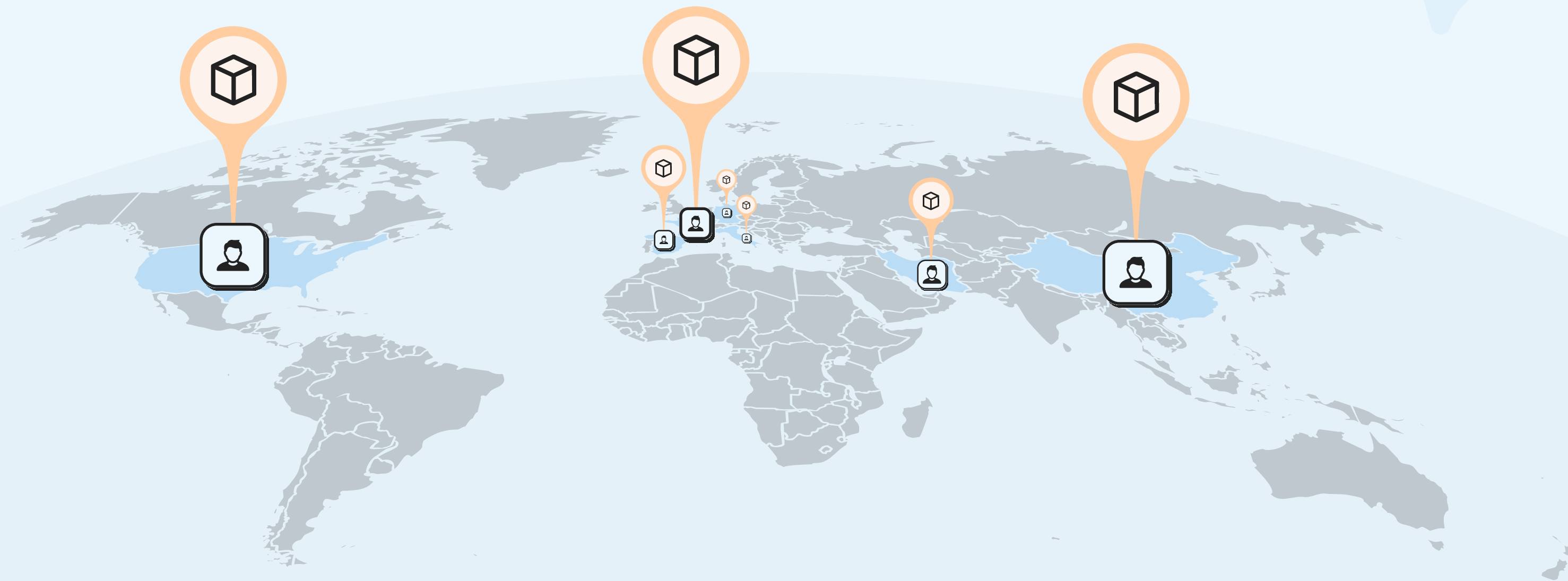
You can get the following:

- Access to Ethereum, BNB chain, Polygon, Velas, or any other chain
- 100% healthy nodes
- Average response time of 85.6 msec
- Enterprise-grade security
- AI-based predictive auto scaling with PredictKube



RPC Fast under the hood: Geo-distributed nodes

Lower response time due to our own solutions based on Google Cloud Platform, such as Global Load Balancer



90+
zones available

99.99%
uptime

average 85.6 msec
latency from anywhere

RPC Fast under the hood: Security

No one but you can have access to your self-hosted environment, so that you can have full control of the infrastructure. We only use open-source based technologies, that is, no “black box” solutions used at all.

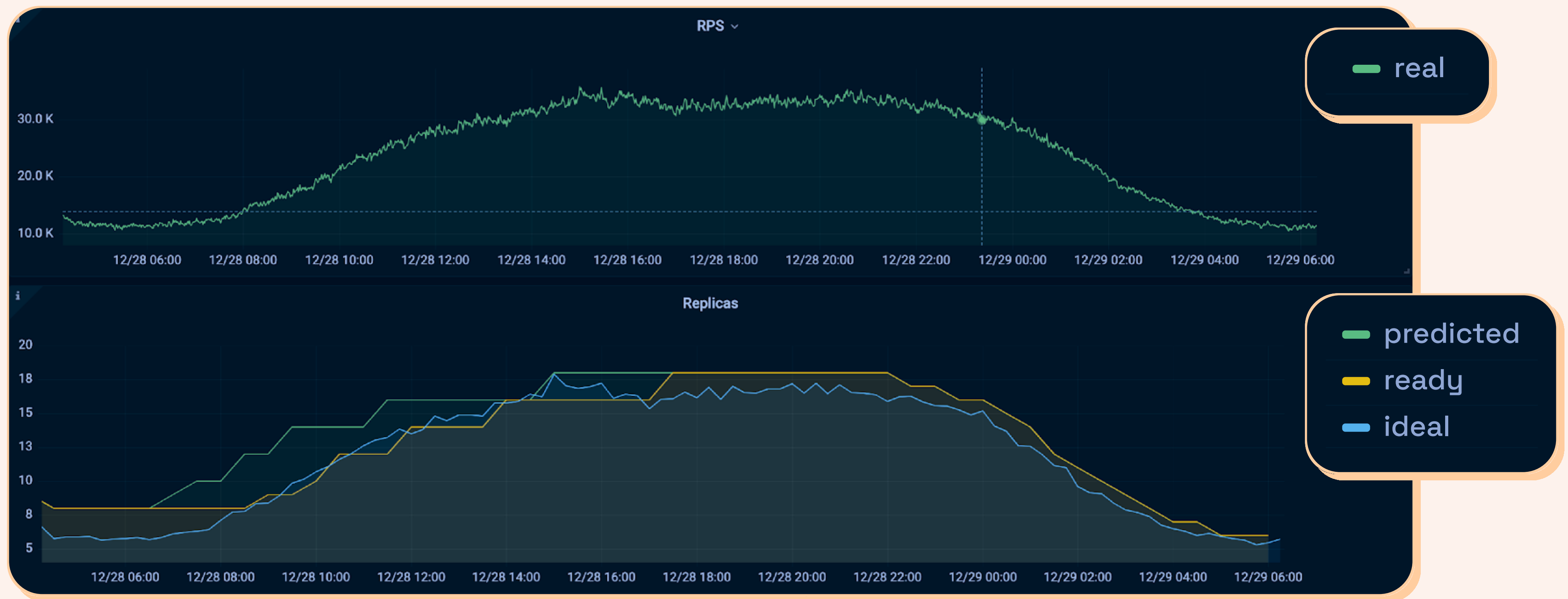
We provide node protection from attacks on DNS and domain registrar servers, using the JSON Web Token (JWT) and the ETH domain name.

Timely update of nodes which the client won't even notice due to our own time-tested solution that monitors chain updates and updates it without any downtime.



RPC Fast under the hood: PredictKube

We minimized downtime and high-latency risks using our own solution, the predictive autoscaler powered by AI/ML



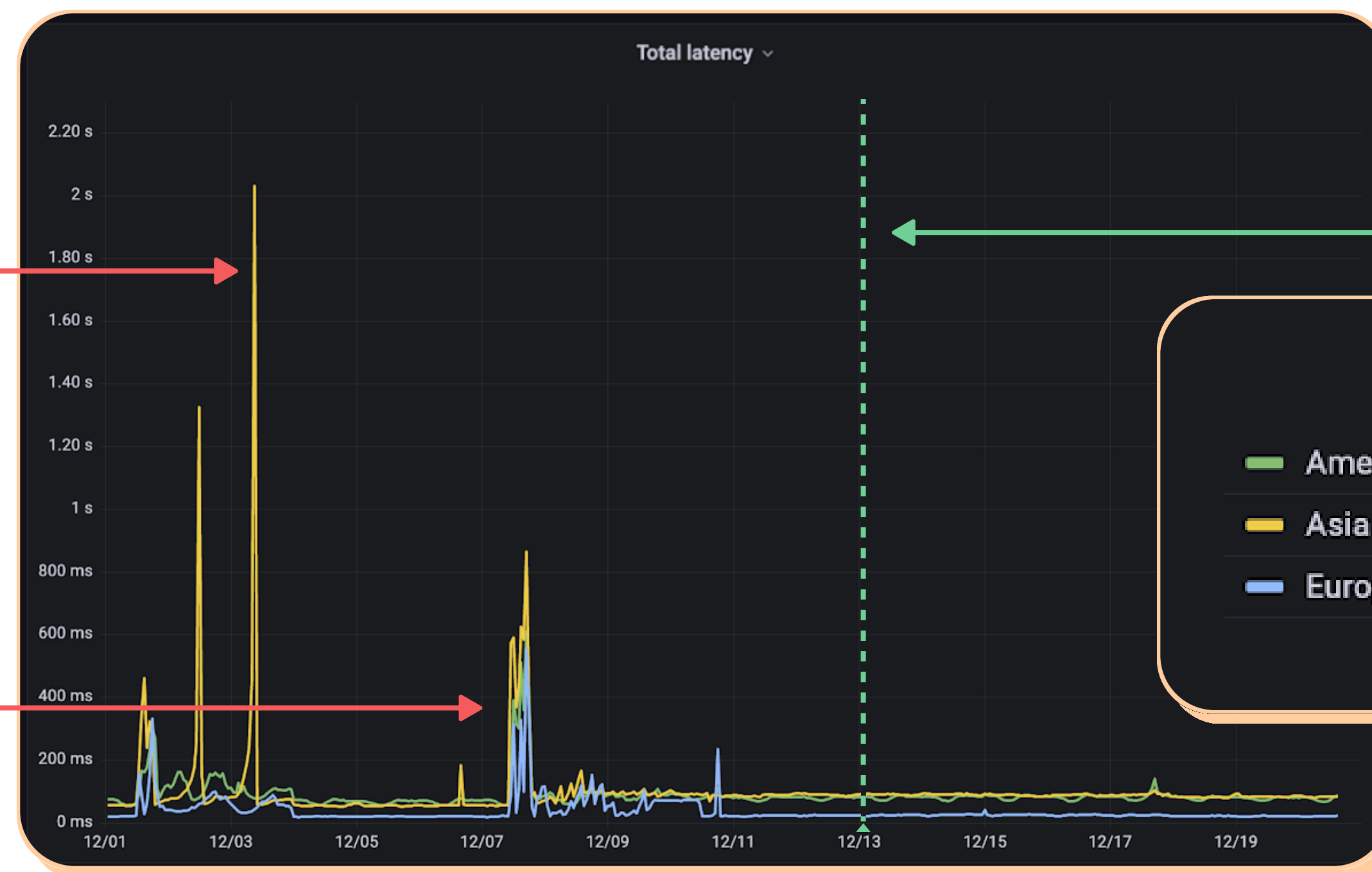
RPC Fast under the hood: JsonRPC Caching Proxy

With the help of RPC Fast we removed latency spikes. As a result we reduced the response time by 90% and reduced requests costs by 40%

Latency spikes

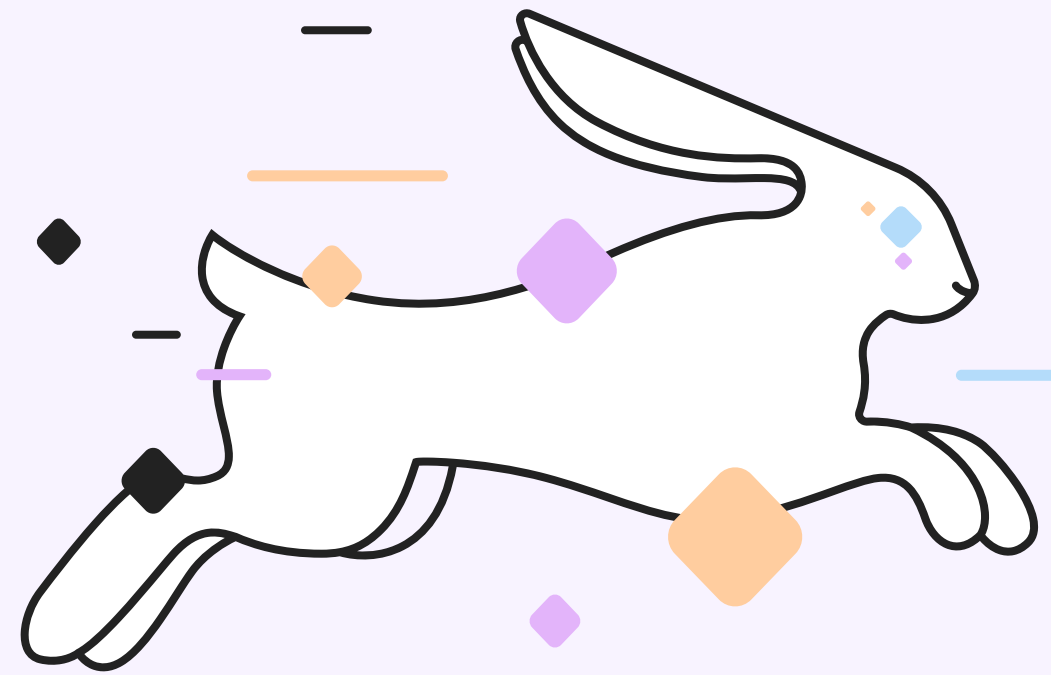
Before RPC Fast and after

RPC **FAST**



	Min	Max	Last	Mean
America	52.8 ms	610 ms	86.8 ms	87.6 ms
Asia	50.8 ms	2.03 s	84.0 ms	99.8 ms
Europe	16.9 ms	556 ms	21.9 ms	36.7 ms

The results:



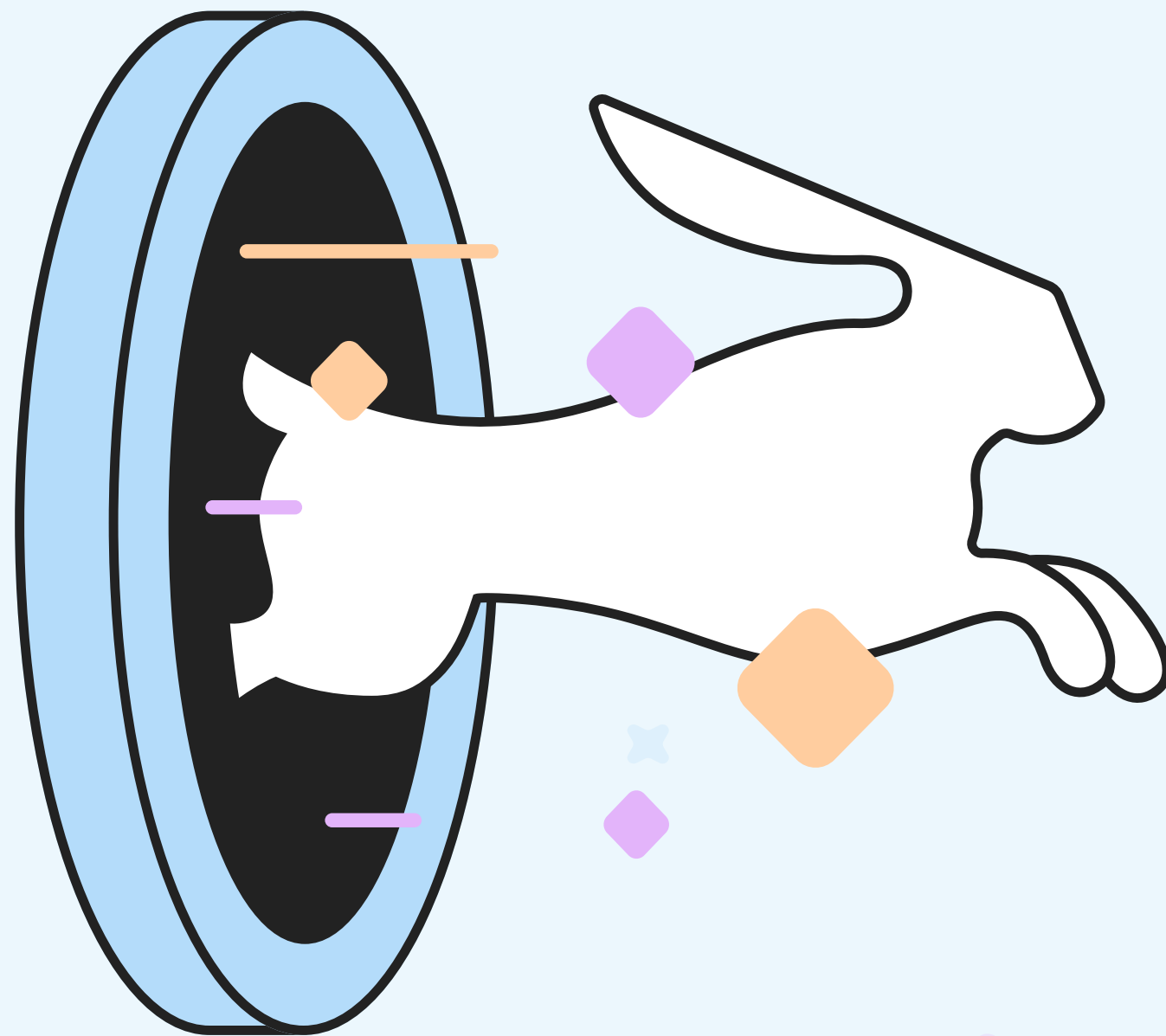
We reduced costs on the infrastructure by **70%**

Reduced the peak response time by **62.5 times**

Stable infrastructure with **158,112,000,000** requests per month and **99.9% uptime**

Latency decreased to **~80 msec**

Why RPC Fast can be helpful in your case?



- Ultra-speedy geo-distributed infrastructure with 90+ zones available and 100% healthy nodes
- 99.99% uptime and average 85.6 msec latency from just about anywhere
- PredictKube, an AI model trained to predict the traffic trend and autoscale infrastructure capacities accordingly, based on your historical data and business metrics.
- A self-hosted solution that will insure maximum security for your blockchain infrastructure.

Other case studies by RPC Fast developers:

A high-scalable infrastructure for the Blockchain-ETL (available on Google BigQuery)

[Read more](#)

A Kubernetes-Based Infrastructure from Scratch for a Next-Gen Blockchain Project Remme

[Read more](#)

Creation & maintenance of blockchain node infrastructure for blockchain analytic project, Nansen.ai

[Read more](#)



[Read more cases and reviews here](#)

RPC **Fast**

Need the fastest, most secure, and stable Blockchain nodes?

How about scheduling a 30-minute call with me?

[Schedule a call](#)



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Need a demo? Or want to get access to the
blockchain infrastructure immediately

[Try for free](#)