



# Monitoring of ELA blockchain platform















Directory of Blockchain Notarius providers. Registered document can be verified at every from them free of charge. Document registration requires login to private part of Blockchain Notarius. Login data provides node owner, service can be paid.

Show  entries

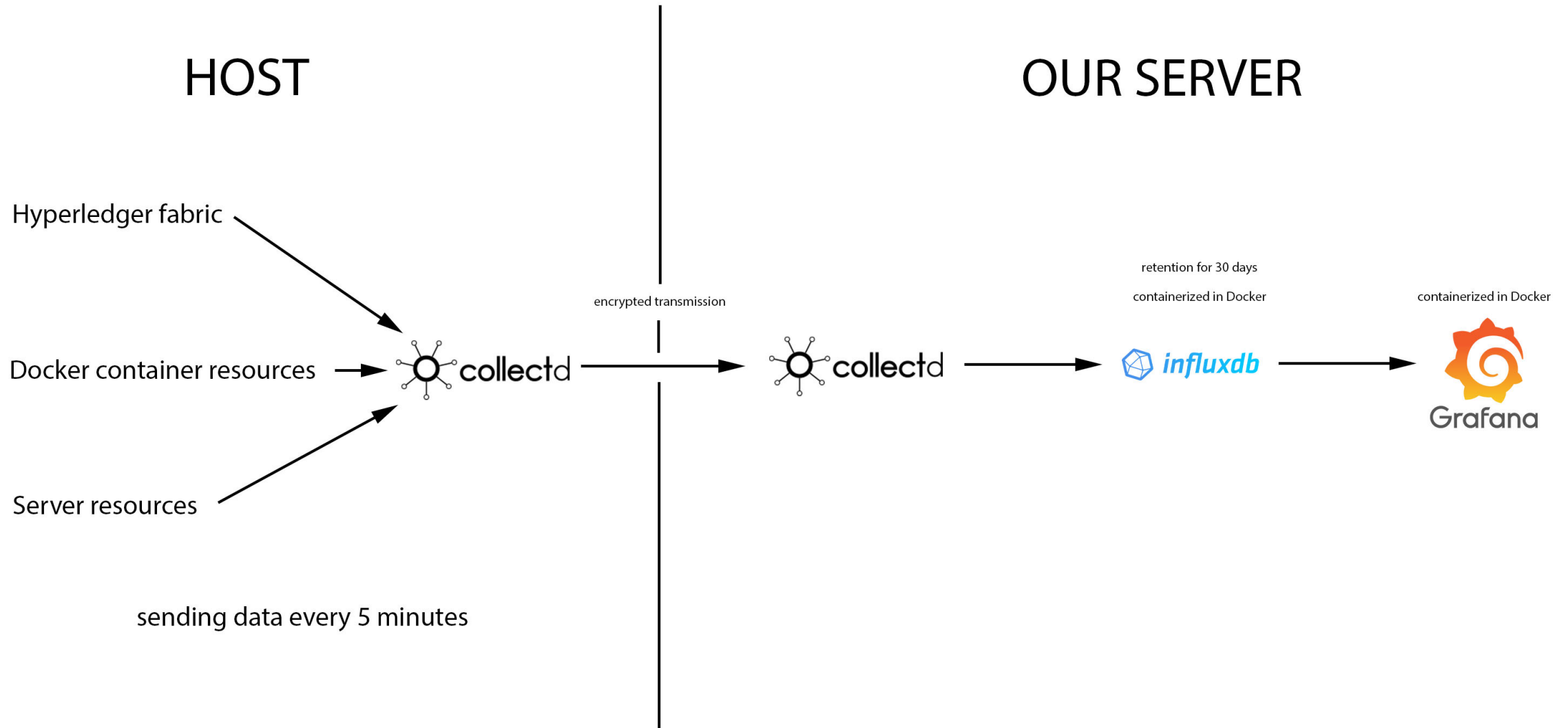
Search:

Node name	Node owner	Owner locality	Contact	Availability	Go to web
MULT	MULTIMA a.s.	Česká republika	<a href="mailto:anovotny@multima.cz">anovotny@multima.cz</a>		<a href="#">Link</a>
NXP	NEXPRO Communication s.r.o	Česká republika	<a href="mailto:lenka.cilova@nexpro.cz">lenka.cilova@nexpro.cz</a>		<a href="#">Link</a>
EBS-JPN	ELA Blockchain Services a.s.	Česká republika	<a href="mailto:kozak@elachain.cz">kozak@elachain.cz</a>		<a href="#">Link</a>
HKCR	Hospodářská komora České republiky	Česká republika	<a href="mailto:kaspar@komora.cz">kaspar@komora.cz</a>		<a href="#">Link</a>
ELP	Elitera Publishing, s.r.o.	Česká republika	<a href="mailto:ritter@elitera.cz">ritter@elitera.cz</a>		<a href="#">Link</a>
VER	Verifier4U	Česká republika	<a href="mailto:sojka@verifier4u.com">sojka@verifier4u.com</a>		<a href="#">Link</a>
EBS	ELA Blockchain Services a.s.	Česká republika	<a href="mailto:havle@elachain.cz">havle@elachain.cz</a>		<a href="#">Link</a>
ALM	Almeto s.r.o	Česká republika	<a href="mailto:pesek@almeto.cz">pesek@almeto.cz</a>		<a href="#">Link</a>
SPCR	Svaz průmyslu a dopravy České republiky	Česká republika	<a href="mailto:oferdus@spcr.cz">oferdus@spcr.cz</a>		<a href="#">Link</a>
CPS	Jan Prokš, soudní znalec	Česká republika	<a href="mailto:jan.proks@seznam.cz">jan.proks@seznam.cz</a>		<a href="#">Link</a>

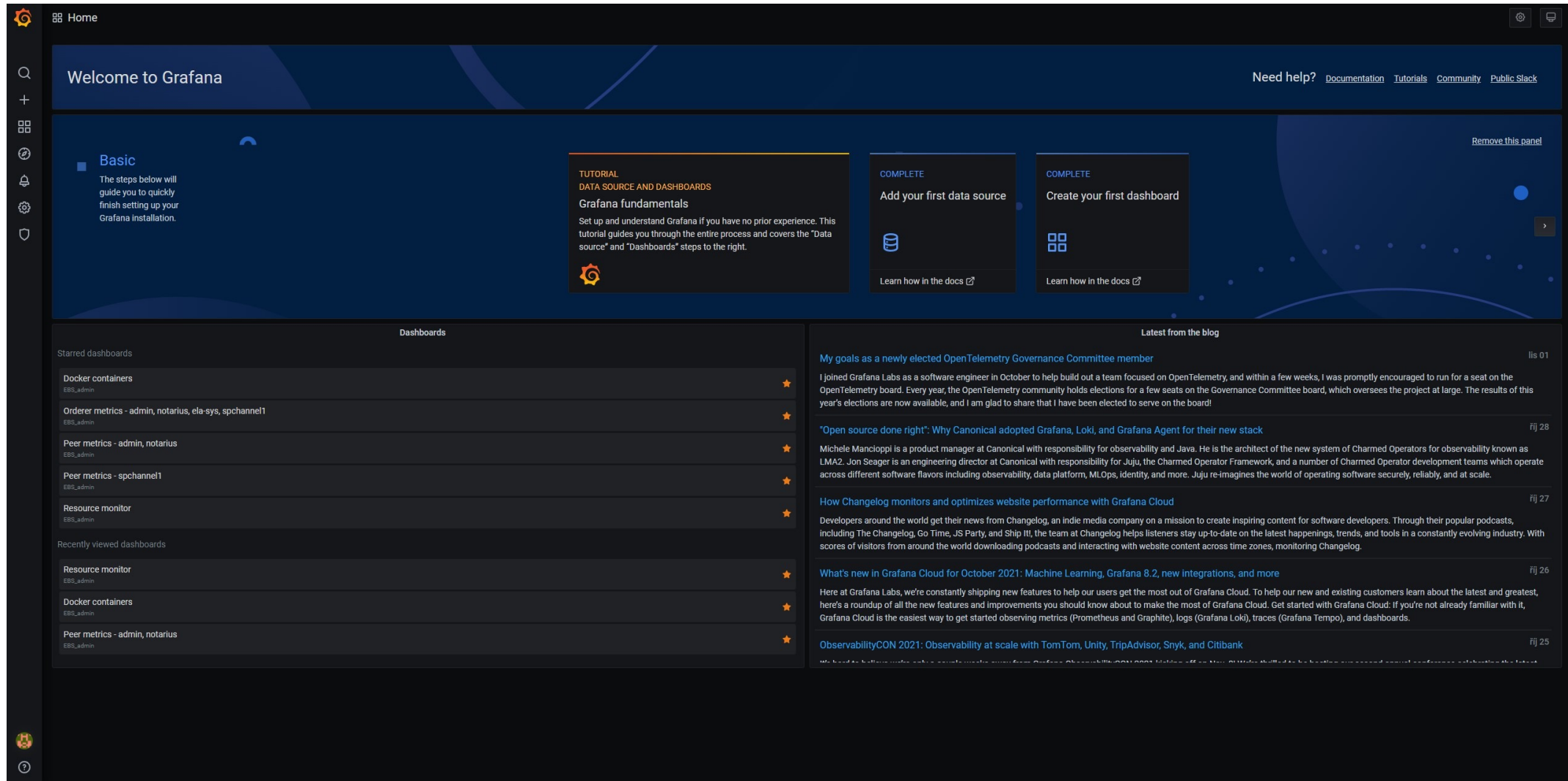
Showing 1 to 10 of 28 entries

Previous 1 2 3 Next

# Scheme of new private HFC monitoring



# Custom dashboards



The screenshot displays the Grafana web interface. At the top, a dark blue header contains the 'Welcome to Grafana' message and a 'Need help?' link with sub-links for 'Documentation', 'Tutorials', 'Community', and 'Public Slack'. Below the header, a large central panel titled 'Basic' provides a tutorial for setting up Grafana, including steps for adding a data source and creating a dashboard. To the left of this panel, a sidebar lists 'Starred dashboards' and 'Recently viewed dashboards'. The 'Starred dashboards' list includes 'Docker containers', 'Orderer metrics - admin, notarius, ela-sys, spchannel1', 'Peer metrics - admin, notarius', 'Peer metrics - spchannel1', and 'Resource monitor'. The 'Recently viewed dashboards' list includes 'Resource monitor', 'Docker containers', and 'Peer metrics - admin, notarius'. To the right of the central panel, a 'Latest from the blog' section features several articles, including 'My goals as a newly elected OpenTelemetry Governance Committee member', 'Open source done right: Why Canonical adopted Grafana, Loki, and Grafana Agent for their new stack', 'How Changelog monitors and optimizes website performance with Grafana Cloud', 'What's new in Grafana Cloud for October 2021: Machine Learning, Grafana 8.2, new integrations, and more', and 'ObservabilityCON 2021: Observability at scale with TomTom, Unity, TripAdvisor, Snyk, and Citibank'.

Home

Welcome to Grafana

Need help? [Documentation](#) [Tutorials](#) [Community](#) [Public Slack](#)

**Basic**

The steps below will guide you to quickly finish setting up your Grafana installation.

**TUTORIAL**  
**DATA SOURCE AND DASHBOARDS**  
**Grafana fundamentals**

Set up and understand Grafana if you have no prior experience. This tutorial guides you through the entire process and covers the "Data source" and "Dashboards" steps to the right.

**COMPLETE**  
**Add your first data source**

Learn how in the docs [🔗](#)

**COMPLETE**  
**Create your first dashboard**

Learn how in the docs [🔗](#)

**Dashboards**

Starred dashboards

- Docker containers  
EBIS\_admin
- Orderer metrics - admin, notarius, ela-sys, spchannel1  
EBIS\_admin
- Peer metrics - admin, notarius  
EBIS\_admin
- Peer metrics - spchannel1  
EBIS\_admin
- Resource monitor  
EBIS\_admin

Recently viewed dashboards

- Resource monitor  
EBIS\_admin
- Docker containers  
EBIS\_admin
- Peer metrics - admin, notarius  
EBIS\_admin

**Latest from the blog**

**My goals as a newly elected OpenTelemetry Governance Committee member** lis 01

I joined Grafana Labs as a software engineer in October to help build out a team focused on OpenTelemetry, and within a few weeks, I was promptly encouraged to run for a seat on the OpenTelemetry board. Every year, the OpenTelemetry community holds elections for a few seats on the Governance Committee board, which oversees the project at large. The results of this year's elections are now available, and I am glad to share that I have been elected to serve on the board!

**"Open source done right": Why Canonical adopted Grafana, Loki, and Grafana Agent for their new stack** fij 28

Michele Manciozzi is a product manager at Canonical with responsibility for observability and Java. He is the architect of the new system of Charmed Operators for observability known as LMA2. Jon Seager is an engineering director at Canonical with responsibility for Juju, the Charmed Operator Framework, and a number of Charmed Operator development teams which operate across different software flavors including observability, data platform, MLOps, Identity, and more. Juju re-imagines the world of operating software securely, reliably, and at scale.

**How Changelog monitors and optimizes website performance with Grafana Cloud** fij 27

Developers around the world get their news from Changelog, an indie media company on a mission to create inspiring content for software developers. Through their popular podcasts, including The Changelog, Go Time, JS Party, and Ship It!, the team at Changelog helps listeners stay up-to-date on the latest happenings, trends, and tools in a constantly evolving industry. With scores of visitors from around the world downloading podcasts and interacting with website content across time zones, monitoring Changelog.

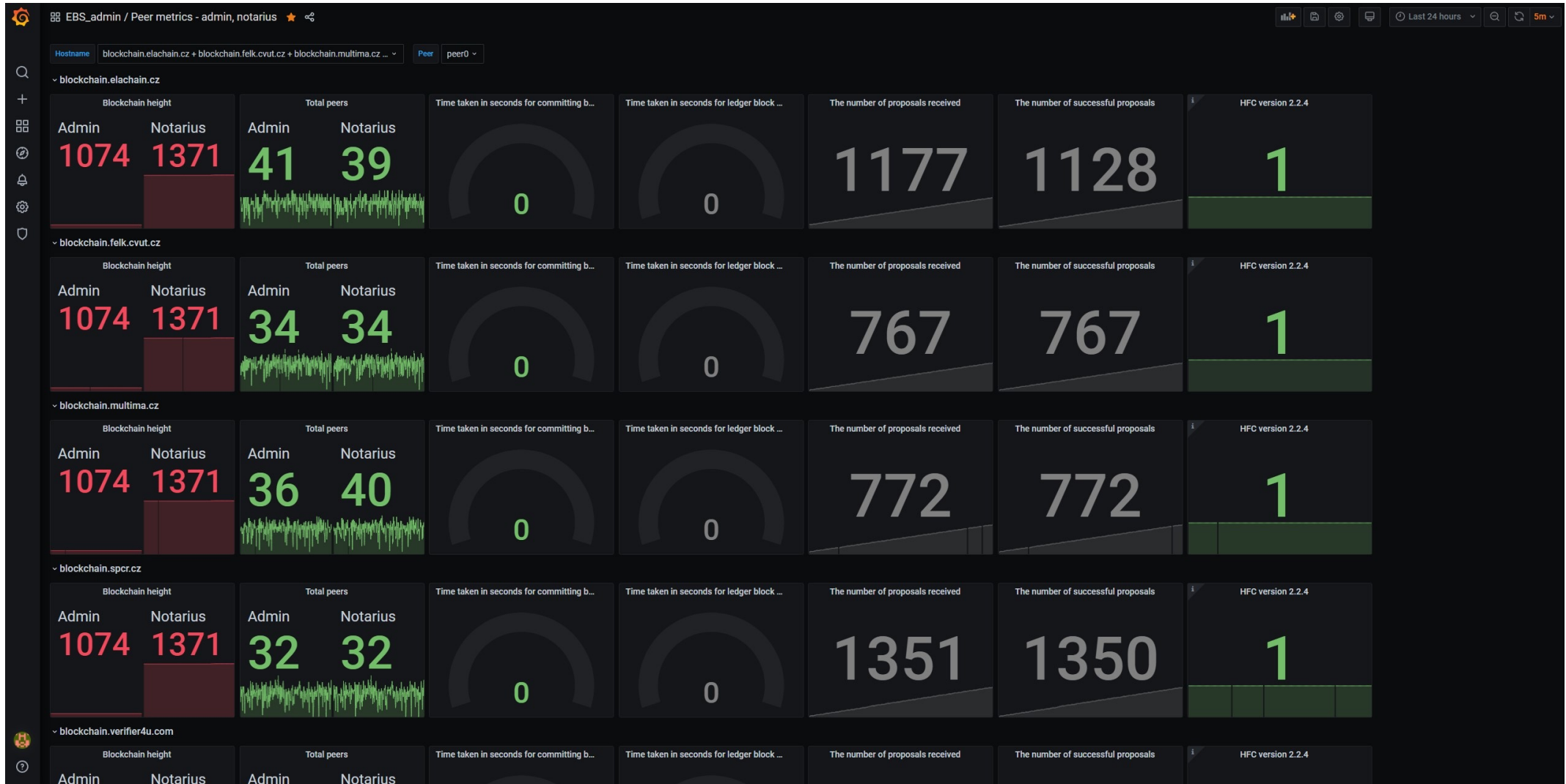
**What's new in Grafana Cloud for October 2021: Machine Learning, Grafana 8.2, new integrations, and more** fij 26

Here at Grafana Labs, we're constantly shipping new features to help our users get the most out of Grafana Cloud. To help our new and existing customers learn about the latest and greatest, here's a roundup of all the new features and improvements you should know about to make the most of Grafana Cloud. Get started with Grafana Cloud: If you're not already familiar with it, Grafana Cloud is the easiest way to get started observing metrics (Prometheus and Graphite), logs (Grafana Loki), traces (Grafana Tempo), and dashboards.

**ObservabilityCON 2021: Observability at scale with TomTom, Unity, TripAdvisor, Snyk, and Citibank** fij 25

We had the pleasure of participating in the annual Open Source Observability Summit (OSOS) held in New York City. It was a great opportunity to share our experiences and insights with the latest

# Hyperledger fabric data from nodes





# Hyperledger fabric data from nodes

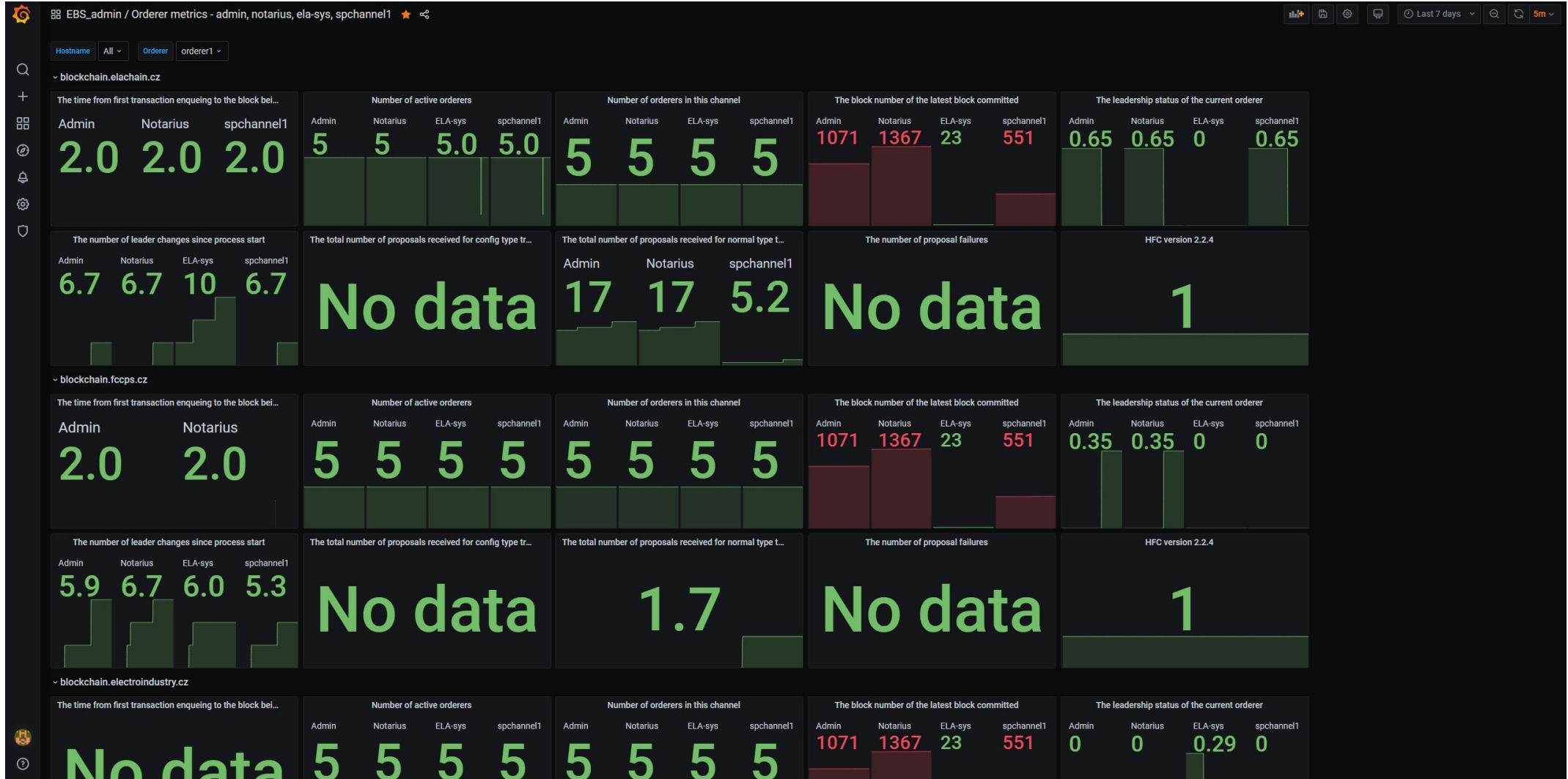
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- Blockchain height
- Total known peers
- Time taken in seconds for committing block changes to state database
- Time taken in seconds for ledger block processing
- The number of proposals received
- The number of successful proposals
- The active version of Fabric

All available StatsD metrics for peers can be found on:

[https://hyperledger-fabric.readthedocs.io/en/release-2.2/metrics\\_reference.html#id2](https://hyperledger-fabric.readthedocs.io/en/release-2.2/metrics_reference.html#id2)

# Hyperledger fabric data from orderers



# Hyperledger fabric data from orderers

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- The time from first transaction enqueueing to the block being cut in seconds
- Number of active orderers
- Number of orderers in channel
- The block number of the latest block committed
- The leadership status of orderer
- The number of leader changes since process start
- The total number of proposals received for config type transactions
- The total number of proposals received for normal type transactions
- The number of proposal failures
- The active version of Fabric

All available StatsD metrics for orderers can be found on:

[https://hyperledger-fabric.readthedocs.io/en/release-2.2/metrics\\_reference.html#statsd](https://hyperledger-fabric.readthedocs.io/en/release-2.2/metrics_reference.html#statsd)



# Docker containers data

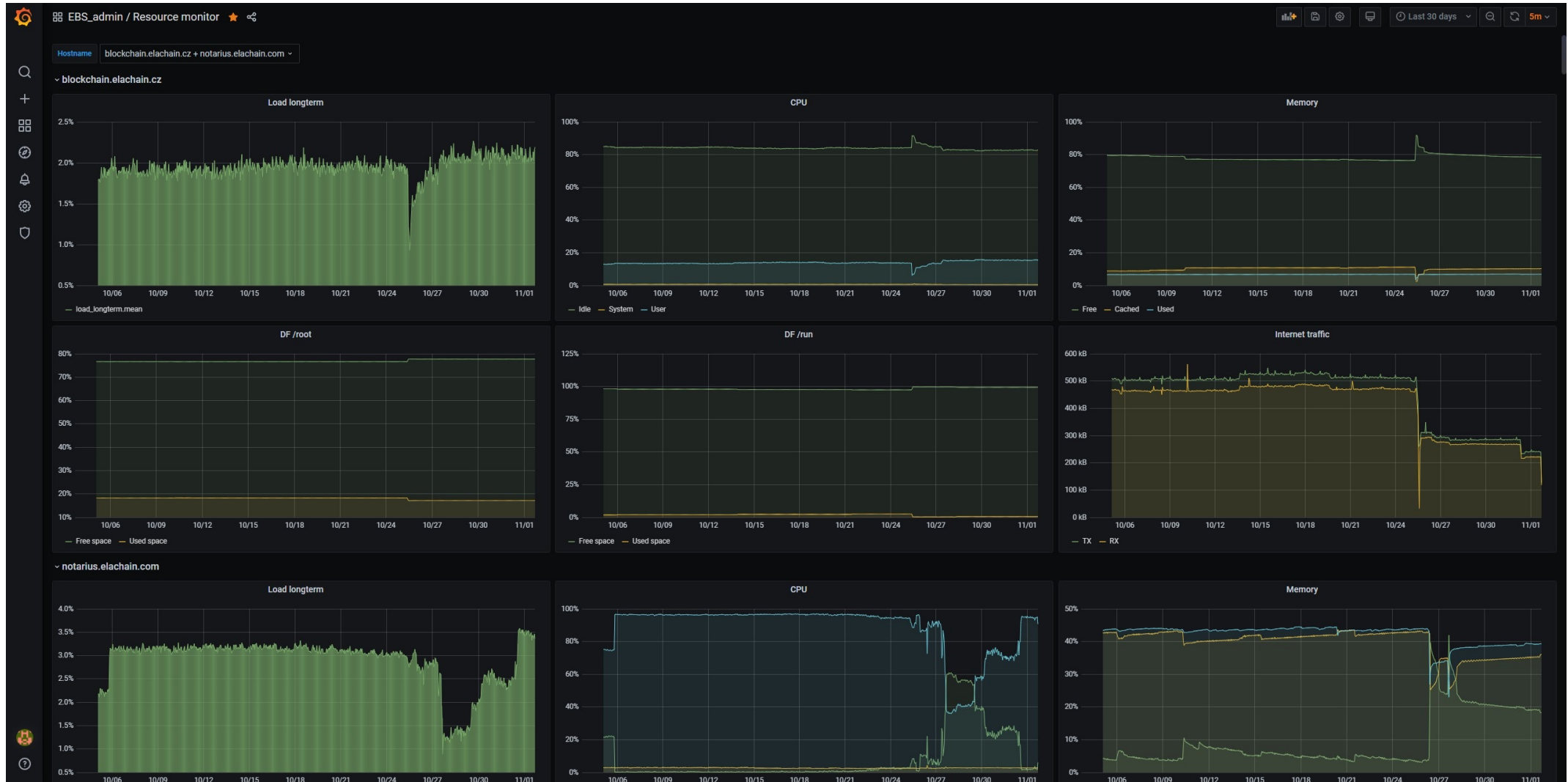


# Docker containers data

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- CPU
- Memory
- Network traffic
- Block IO

# System resources data



# System resources data

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- Load longterm
- CPU
- Memory
- Disk space
- Network traffic

## Why is it useful?

- Monitoring load of the whole blockchain network
- Optimization of HW for nodes
- Setting limits for Docker containers
- Helpful for solving problems on the client's side



# Usable for your own blockchain network

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- You can monitor your own network with customized dashboards
- Relatively easy to set up
- User groups in Grafana for child organizations
- Open source
- Data push model HOST → SERVER

# Thank you for your attention

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<https://www.elachain.cz/>

<https://www.blockchainotarius.cz/>

<https://www.hyperledger.org/>

