VCHAIN

THE IMMUTABILITY COMPANY
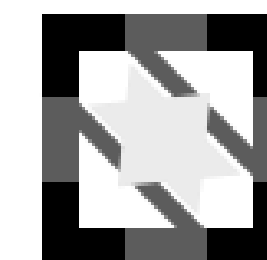
CNCF
SILVER MEMBER

COMPANY
EXECUTIVE SUMMARY

The Company

Founded in 2018 by long-time expert in virtualization and DevOps, with offices in the US and Europe
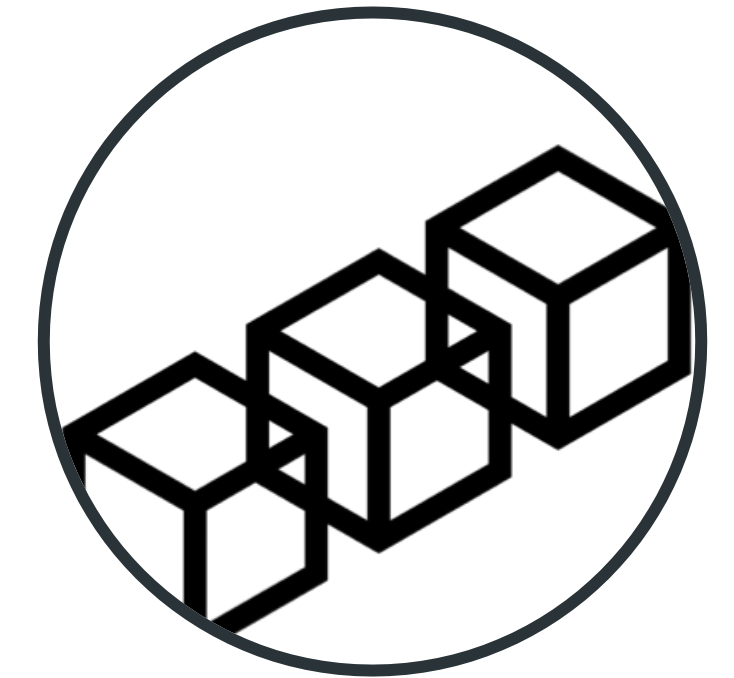
The Product

Code-to-production protection that automatically monitors, verifies and guarantees integrity across all digital environments

The Market

Empowering DevOps and security to continuously secure and protect their growing deployments

The Technology

The ledger technology allows granular code signing to guarantee integrity from source to production

WWW.CODENOTARY.IO
vChain, Inc. – contact@vchain.us

VCHAIN SOLUTIONS

CodeNotary.io

- Tamperproof recording of who did what, when, where throughout DevOps cycle
- Inhibit unsanctioned workloads
- Indelible audit trail of all changes
- Simple integration with any artifact handling system - GitHub, GitLab, SAP, Office 365
- Without digital certificates
- GPLv3

immudb

- Immutable recording of data changes
- Avoids complexity and expense of blockchain
- No changes to your applications needed
- Data cryptographically verifiable
- Easy to use and operate
- ACID-compliant, 1m inserts/second
- Self-healing
- Apache License 2.0

immudb Key Benefits

Setup in seconds

- GitHub hosted project, Apache License 2.0
- Small and very efficient code base.
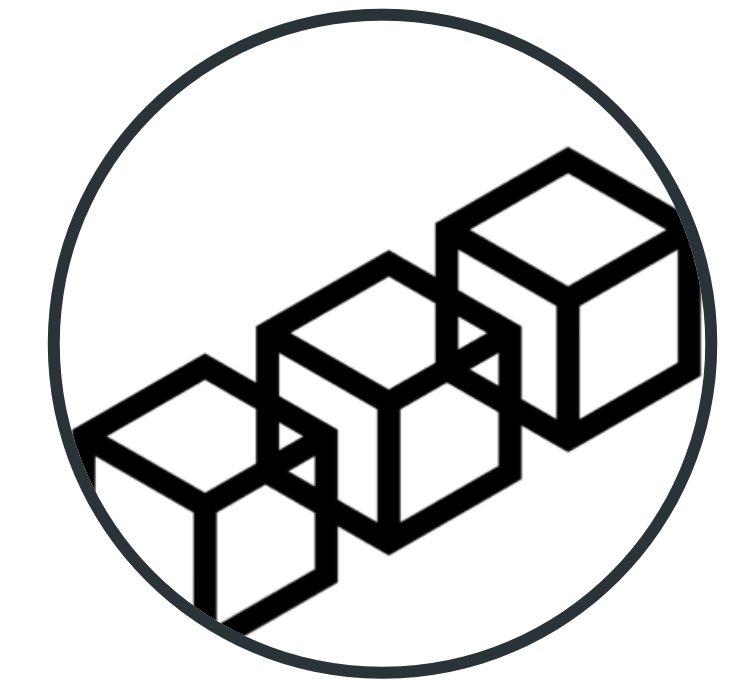- Native or container

Performance

- Faster than MongoDB while guaranteeing immutability
- Keeps up with any transactional system

Tamperproof

- Merkle-tree-based evidence of no tampering
  In-band or out-of-band crypto verification

No hassles with blockchain

- Secure as a blockchain
- No outside access required
- Backup/Restore/Archive like any DB
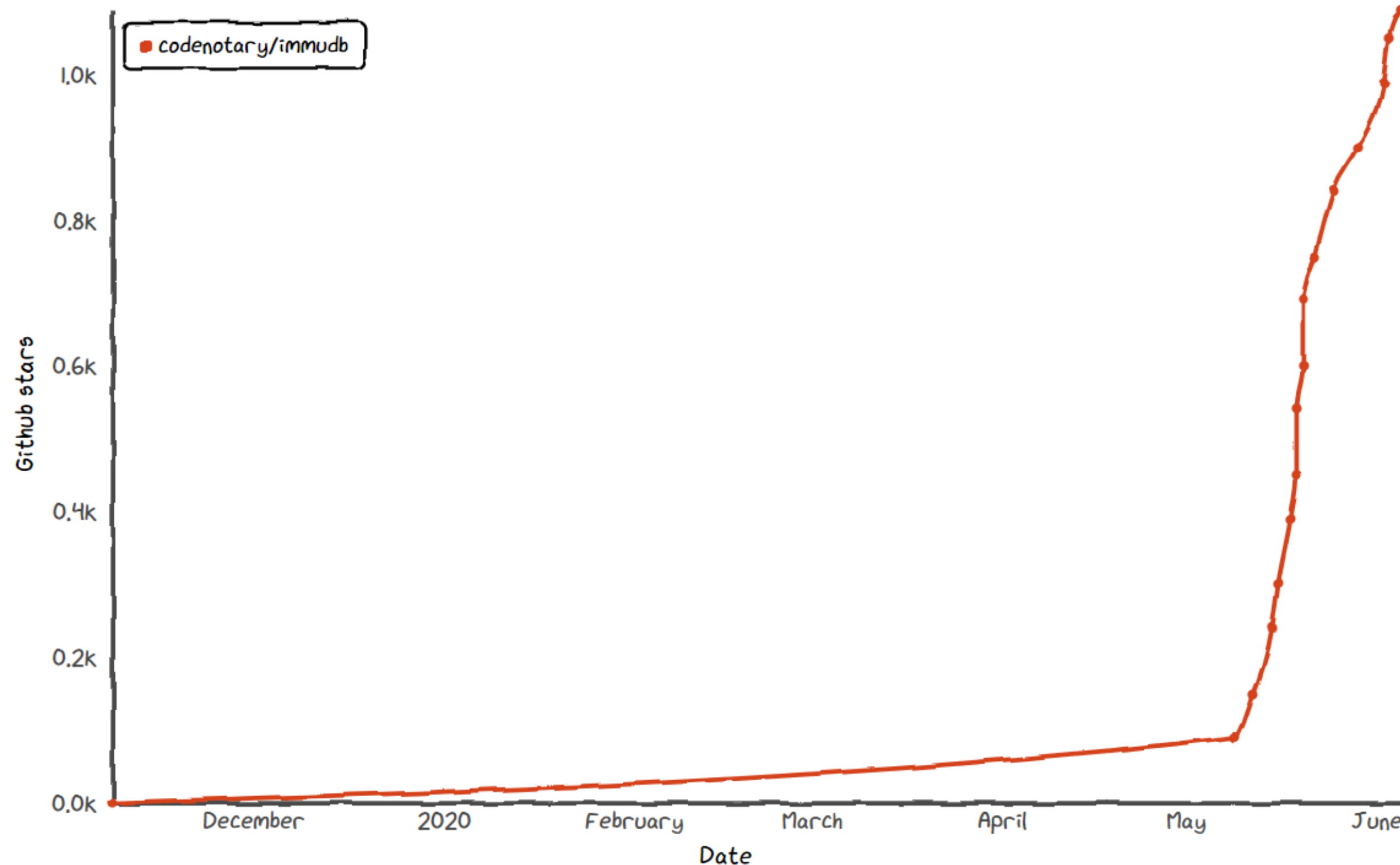- Easy integration to audit systems

IMMUDB COMMUNITY ADOPTION

Star history

Immudb GitHub Stars

- **May 2020**: first announcement: **95**

- **June 2020**: **1200+**

DockerHub Image Downloads

- **June 2020: 130,000+**

Trending
See what the GitHub community is most excited about today.

Repositories	Developers		Spoken Language: Any ▾	Language: Any ▾	Date range: Today ▾

📄 **inancgumus / learngo**   ★ Star
1000+ Hand-Crafted Go Examples, Exercises, and Quizzes
🔵 Go   ★ 3,151   ⑂ 402   Built by   ★ 780 stars today

📄 **senguptaumd / Background-Matting**   ★ Star
Background Matting: The World is Your Green Screen
🔵 Python   ★ 2,644   ⑂ 328   Built by   ★ 152 stars today

📄 **codenotary / immudb**   ★ Unstar
immudb is lightweight, high-speed immutable database for systems and applications
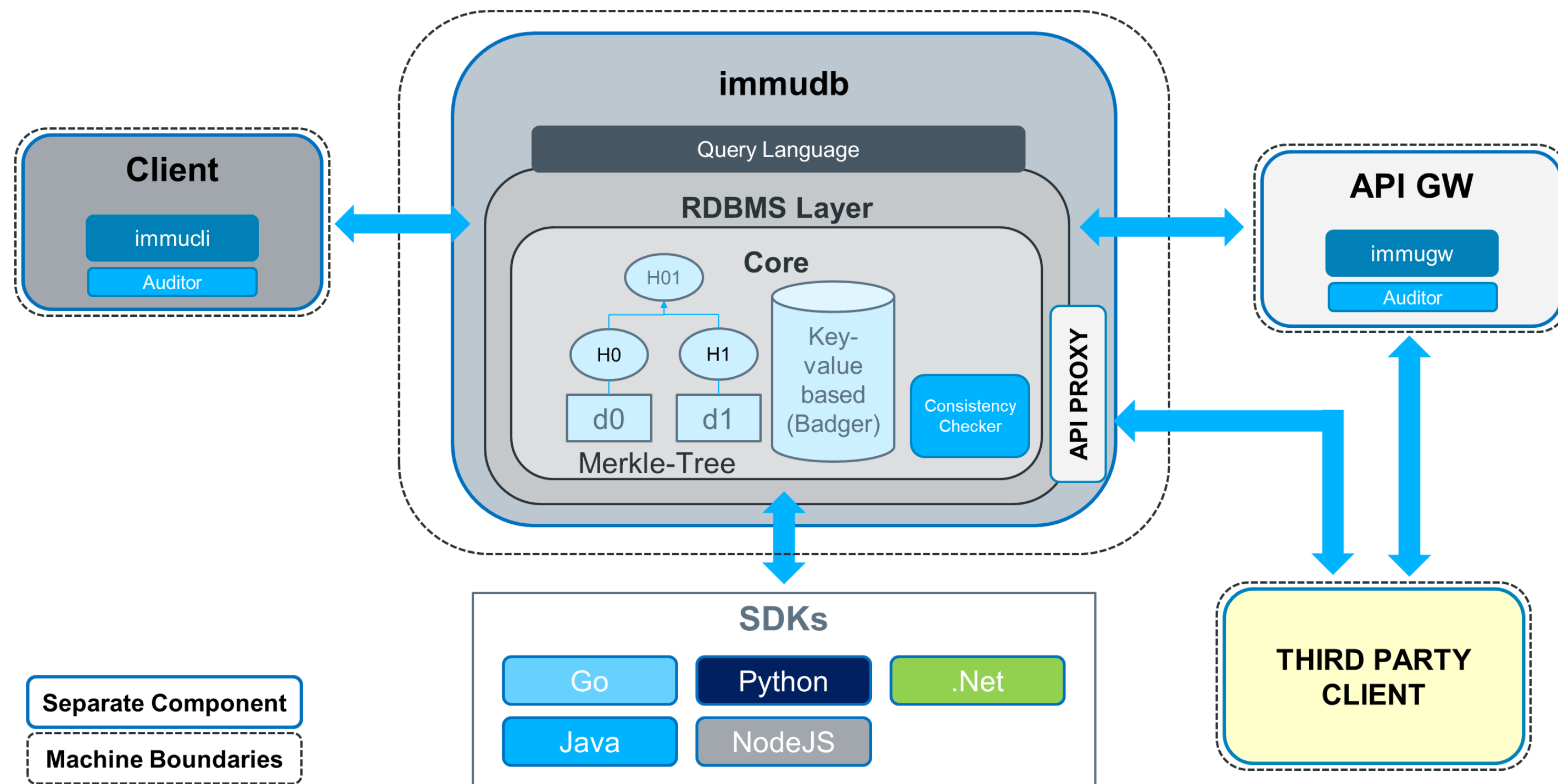🔵 Go   ★ 552   ⑂ 48   Built by   ★ 76 stars today

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IMMUDB ARCHITECTURE

*The lightweight, high-speed immutable database for systems and applications*

Key features:
➢ Open-source
➢ APIs (GW and Proxy)
➢ Distributed trust auditors
➢ SDKs for main languages
➢ Key-value store (v0.6)
➢ Table structure (v0.7)
➢ Query language (v0.7)

IMMUDB PROTECT EXISTING DATABASES

Add immutability and version history to any application or database

Application

Write data

Database

Change Stream
Append-only
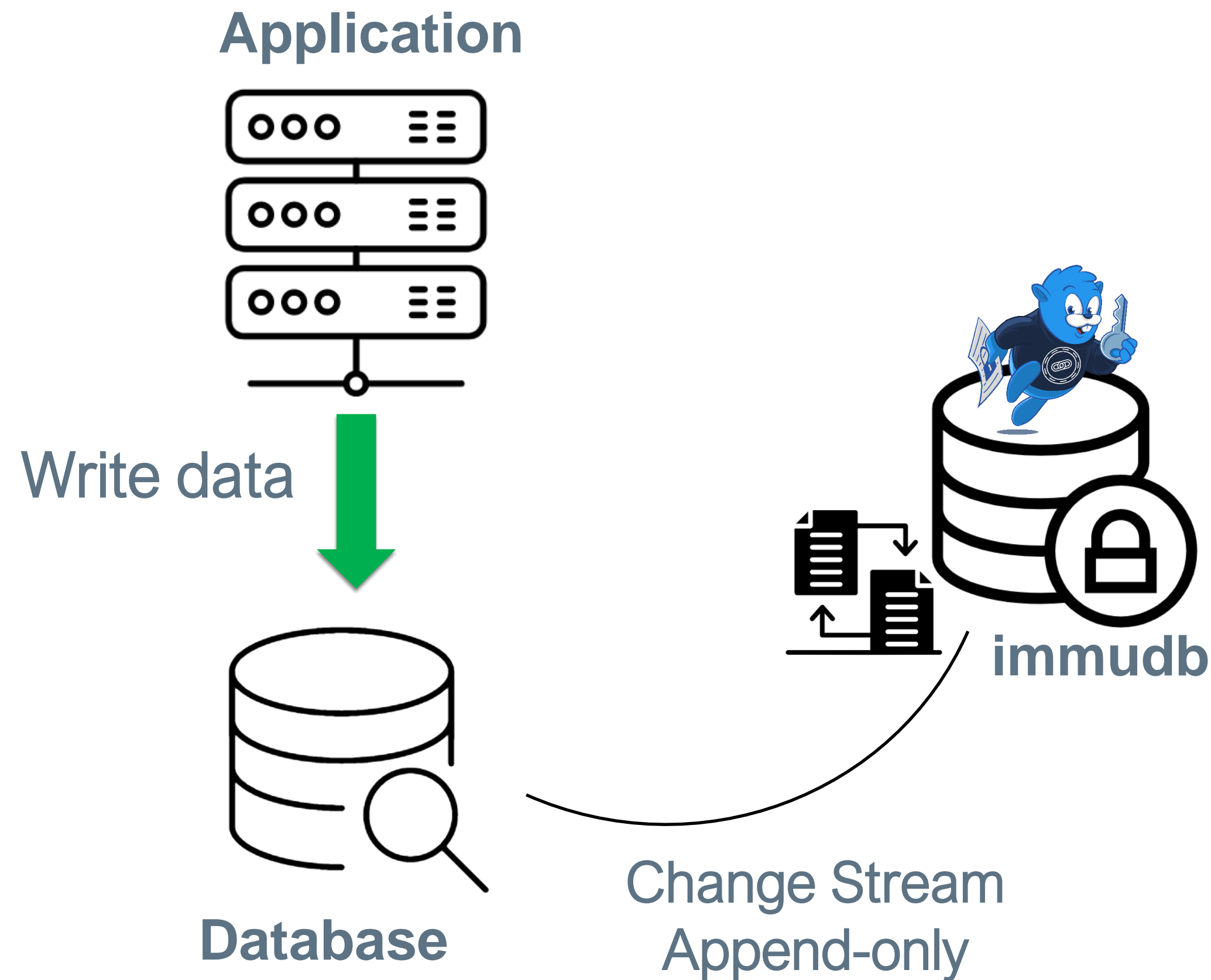
immudb

Benefits:
- immutable record history
- immutable field history
- listen to any database
- no application change
- compare DB and immudb before critical application actions (i.e. wire transfer)

IMMUDB MONITORING

Prometheus exporter

- **Prometheus support built-in**

- **Support for performance metrics**

- **Support for auditor metrics**

- **Grafana Dashboard at Grafana.com**

THANK YOU
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https://www.codenotary.io

https://www.immudb.io

Every digital object should have an identity and a trust level on CodeNotary!