Beyond the Blockchain Silo

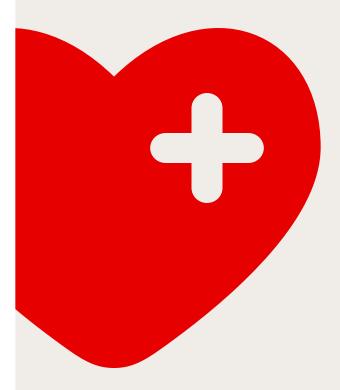
Expanding Enterprise Networks Without Compromising Control



Early Enterprise Blockchains

We.Trade Consortium Key players: Deutsche Bank, HSBC, KBC, Natixis, Rabobank, Societe Generale and UniCredit **Officially Launched**: 2018 Use case: Cross-border trade finance

Change Healthcare



Key players: US health insurers,

hospitals and clinics.

Officially Launched: 2017 Use case: health care

Walmart & IBM case

Walmart

Key players: Walmart, IBM. Officially Launched: 2017

Use case: Supply Chain Traceability



Approaches to enterprise blockchain architecture

	Tech stack example	Interoperability with Ethereum	Operational costs	Operational complexity	Network effects	Decentra- lization	Intergation with legacy IT systems complexity and costs
Private permissioned non-evm blockchain	> Hyperledger FABRIC	NO	High	High	Limited	Low	High

Approaches to enterprise blockchain architecture

	Tech stack example	Interoperability with Ethereum	Operational costs	Operational complexity	Network effects	Decentra- lization	Intergation with legacy IT systems complexity and costs
Private permissioned non-evm blockchain	₩ Hyperledger FABRIC	NO	High	High	Limited	Low	High
Private permissioned evm blockchain	Quorun	η	High	High	Limited	Low	Medium-High



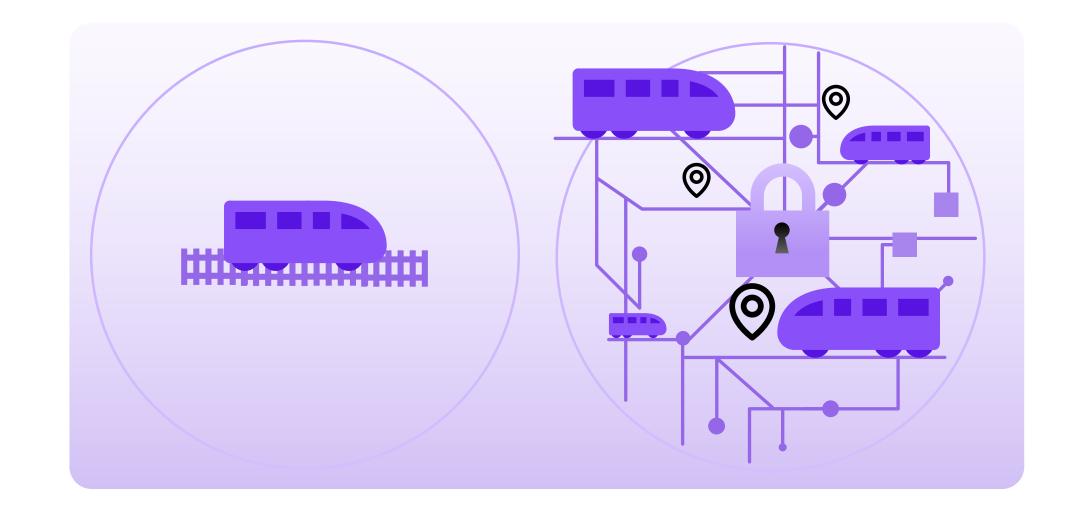
Approaches to enterprise blockchain architecture

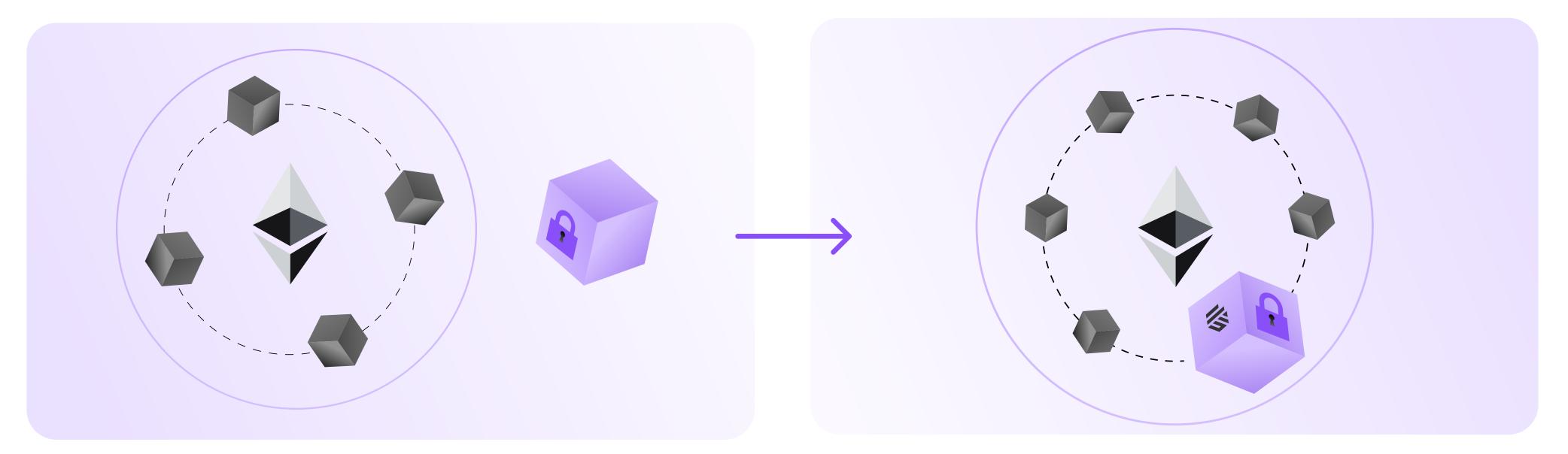
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Private permissioned non-evm blockchain	> Hyperledger FABRIC	NO	High	High	Limited	Low	High
Private permissioned evm blockchain	Quorun	YES	High	High	Limited	Low	Medium-High
Public permissioned evm blockchain	CDK Enterpr	rise YES	Low	Low	Unlimited	High	Low-Medium



From Private to Public Permissioned

Public permissioned blockchains combine the privacy and control of private networks with the interoperability and scalability of Ethereum, enabling enterprises to move beyond isolated systems into a global, standardized ecosystem.







Many have started

Public permissioned blockchains are rapidly gaining traction, with leading enterprises already launching or developing their own networks.







In developement

Use case: proprietary Layer 2 blockchain, designed for tokenizing real-world assets like US stocks and ETFs

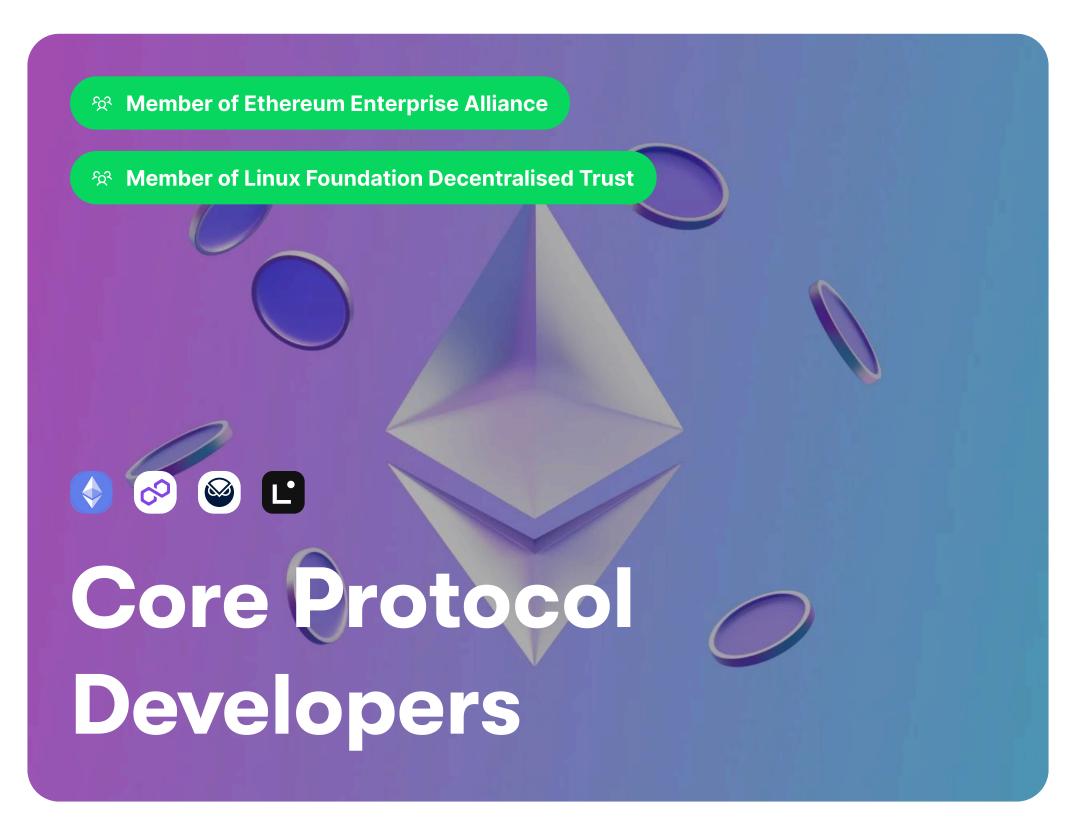
Nice to meet you, we're Gateway!

Gateway is the infrastructure company behind core protocols including Ethereum, Polygon, Gnosis, and Linea. We provide enterprise-grade Web3 networks and comprehensive platform services including RPC, staking, and advanced tooling while consistently reducing infrastructure costs.





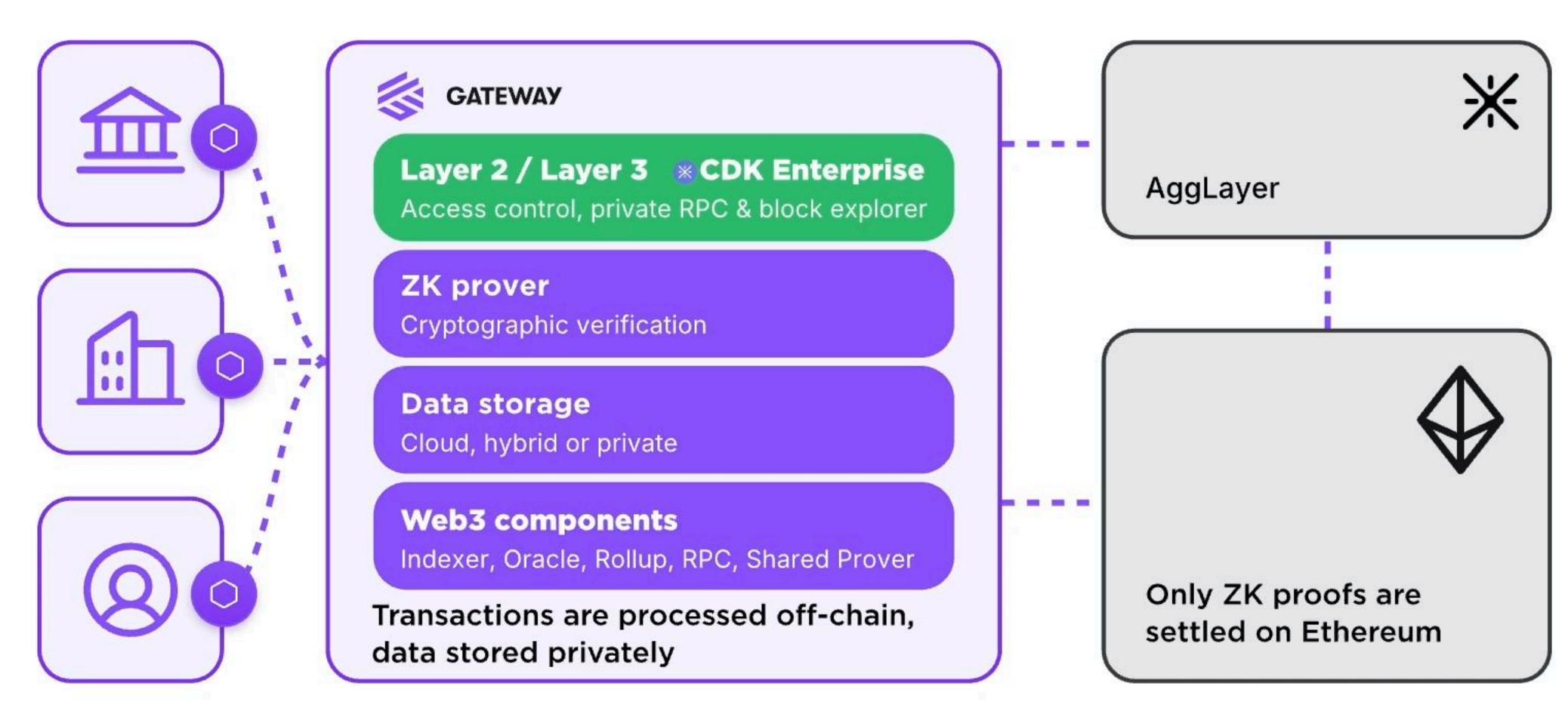






Architecture

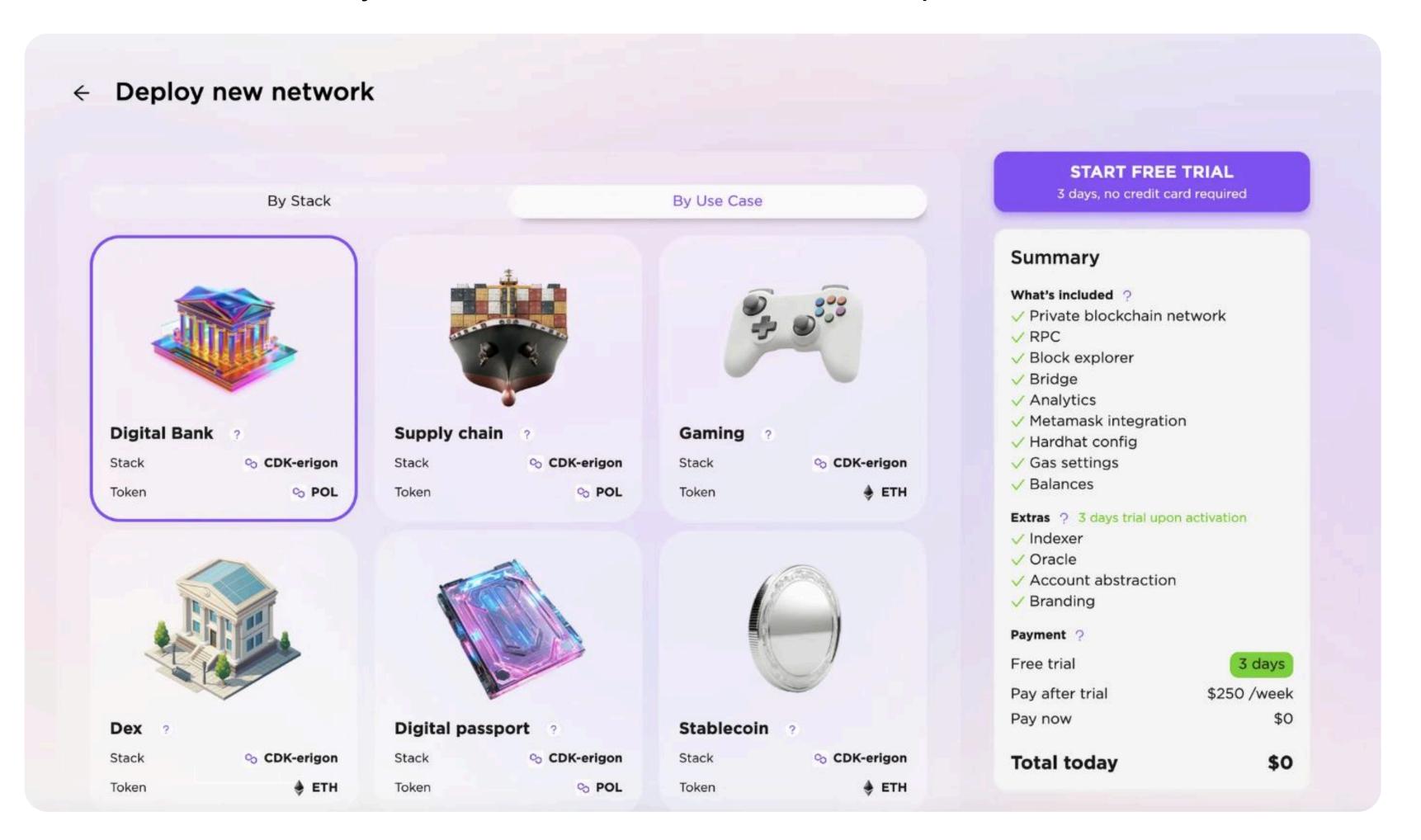
Infrastructure as comprehensive and wide as Base, and it's private, secure and compliant





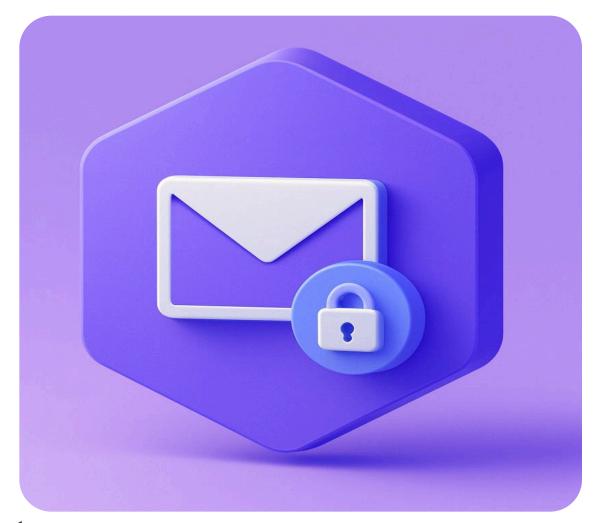
Rollup-as-a-Service Platform

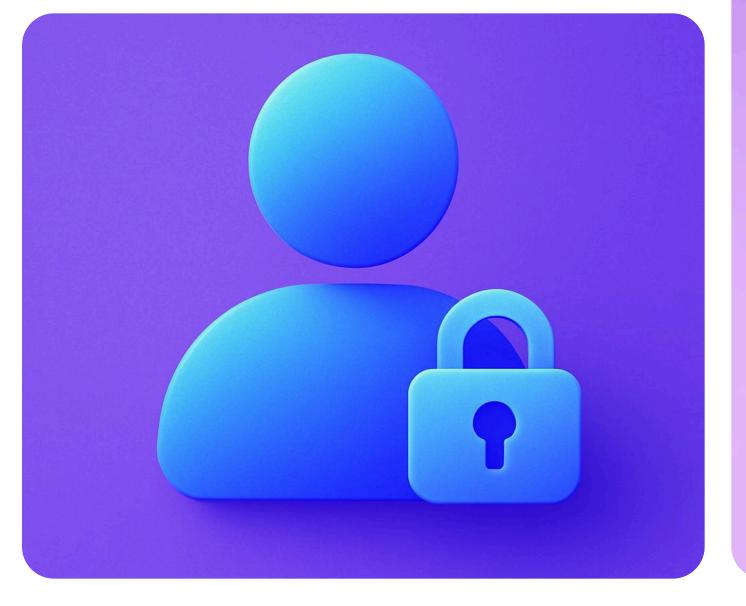
Easy, hassle-free launch with no development effort



The Privacy Challenge

- Fine-grained role-based access control
- Seamless integration with current IAM systems
- Full transparency to authorized third parties for auditing













Privacy solutions landscape

- IP Filtering
- Restricted Access to Bridge, RPC, Block Explorer
- Access Control Lists (ACLs)
- RPC API Keys
- Fully Private Data Availability (DA)

Perimeter privacy

Private chain





Privacy solutions landscape

- Private token transfers (ERC-20, ERC-721, ERC-1155, ERC-3525)
- x.509 certificate-based participant allowlisting

Programmable
Selective disclosure

PALADIN

Perimeter privacy

Private chain

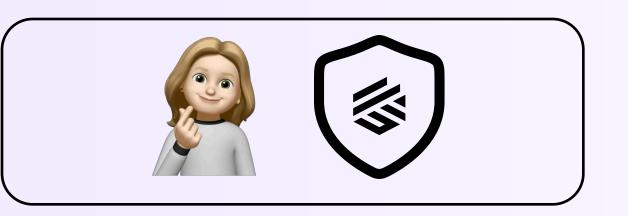




Privacy solutions landscape

Self-sovereign identity (SSI)

- Decentralized Identities (DIDs)
- Verifiable Credentials (VCs)
- ZK proofs for Autherization



Programmable
Selective disclosure



Private chain



Perimeter privacy

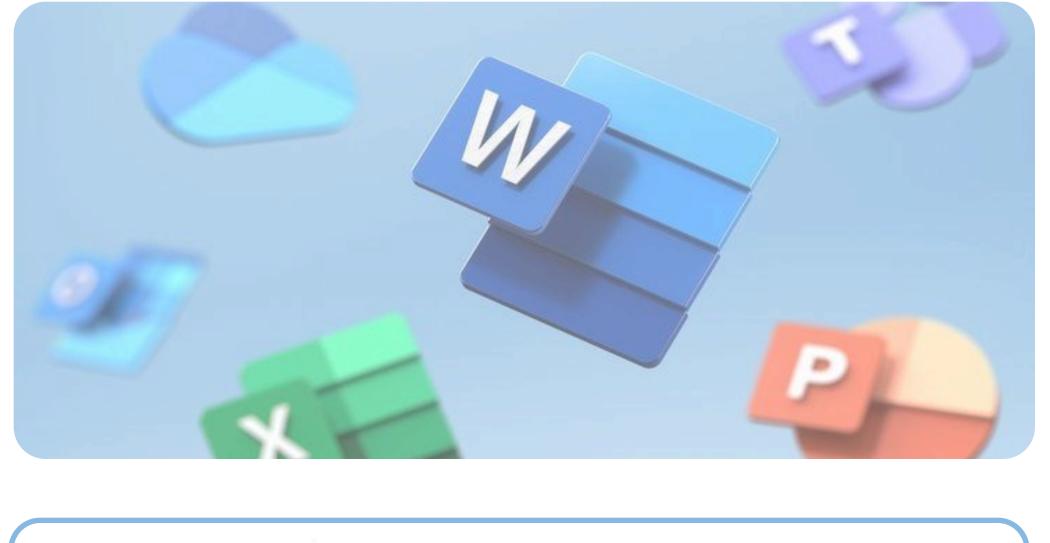
User-friendly experience

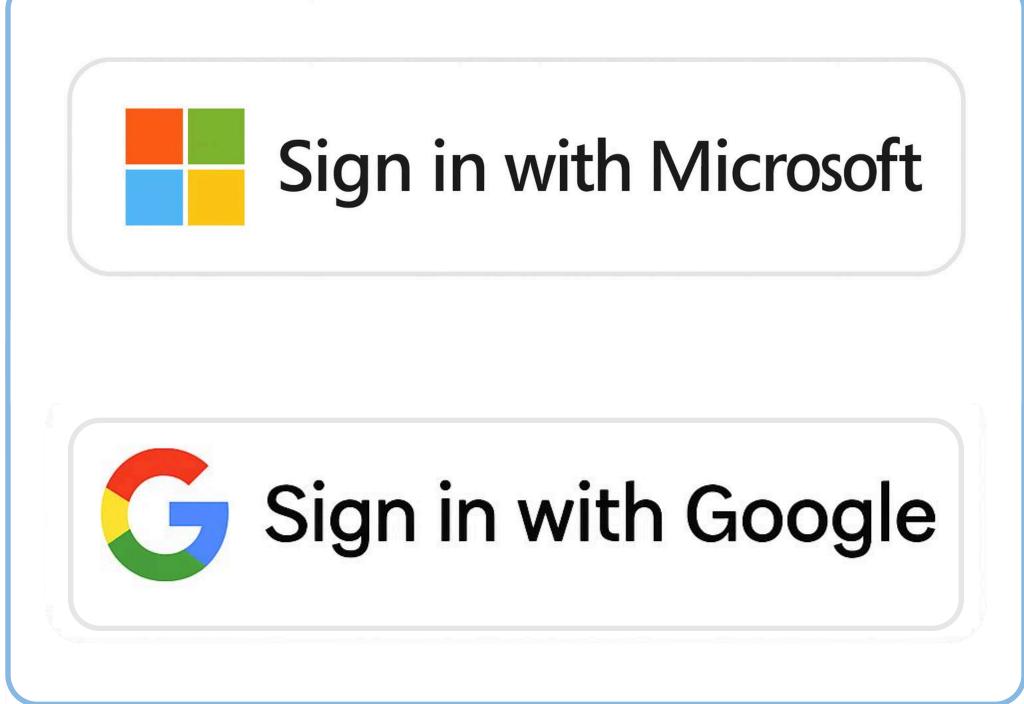
- Simple login with Microsoft Entra
- Familiar recovery options
- Session management

Login in to blockchain apps using your Microsoft email









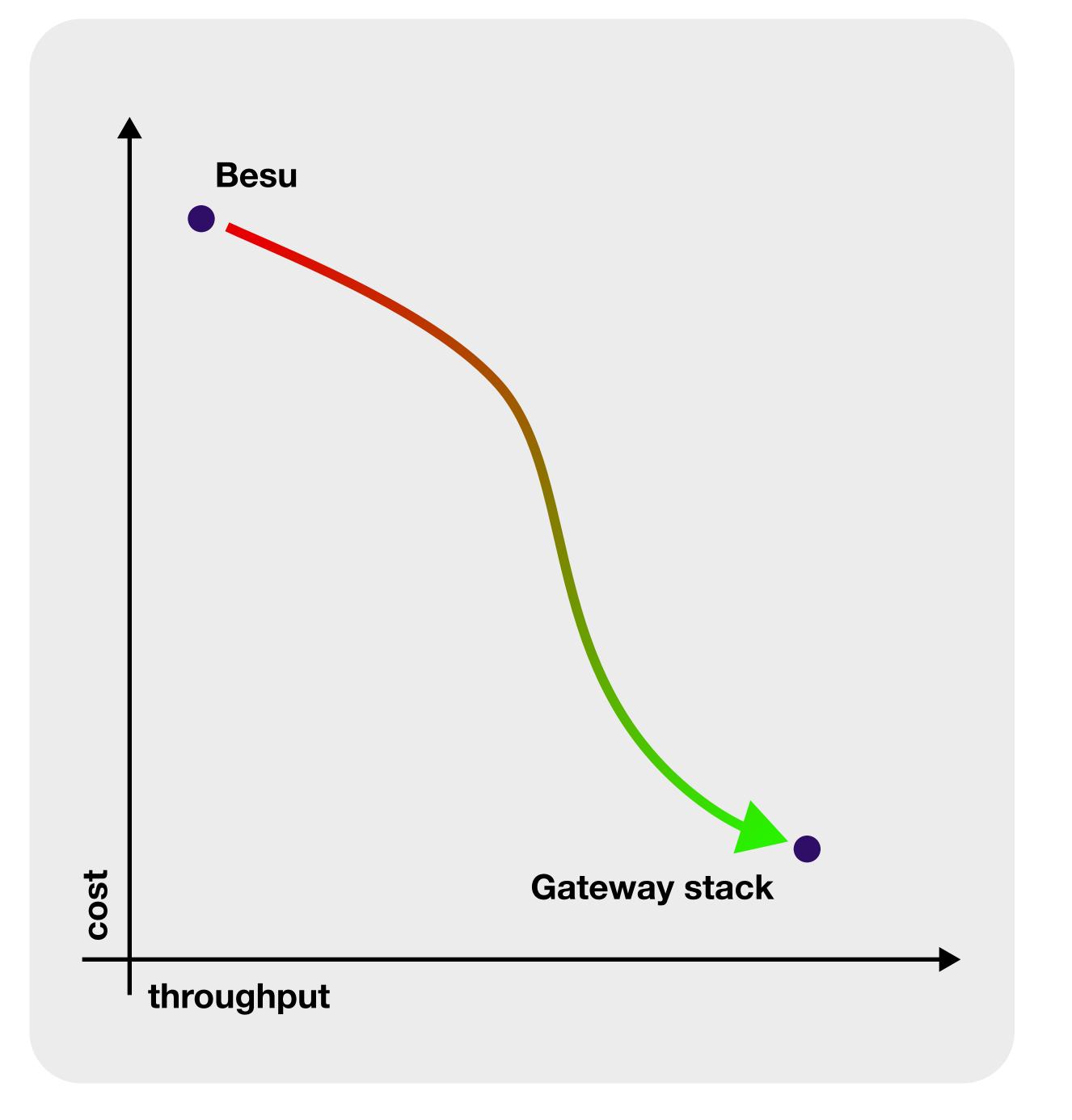


Breaking the Limits of Besu with Gateway stack



Breaking the Limits of Besu with Gateway Stack

- Increased throughput
 50–200 TPS --> 1700 TPS
 with spikes up to 10 000 TPS
- Costs reduced by 70%+
 due to a smarter and leaner setup
- Reduced operational complexity
- Next-generation privacy solution
 ZK-proofs instead of Tessera
- Tighter integration with Ethereum ecosystem
 - Security of the chain guaranteed by Ethereum
 - Support of broad community of engineers
 - Wide choice of tools and components





Case study. PALM Network

Migrating an operational blockchain network is like changing an engine mid-flight. With extensive research, thorough preparation, and rigorous testing, we achieved a seamless transition to a new chain technology—with zero downtime, no transaction loss, and full preservation of both on-chain state and transaction history.



Besu

6 months

research, preparation, testing

Public permissioned L2 chain

- Full transaction history preserved
- Bridges operate uninterrupted
- Privacy and regulatory compliance maintained











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