



SIM 3.0

Sovereign Project Management on the Internet Computer

Our Path to Data Sovereignty

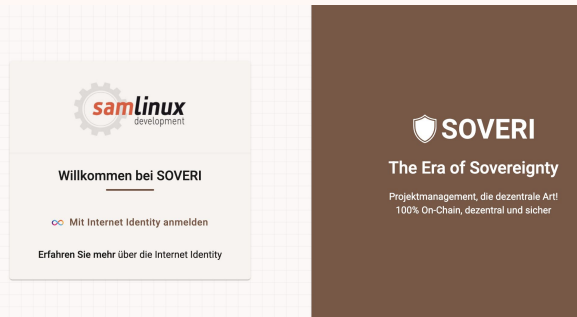


SIM 1 to SIM 3.0



SIM (centralised)

- ◆ LAMP stack
- ◆ Centralised hosting
- ◆ Manual operations
- ◆ Vendor dependency
- ◆ Web2 architecture
- ◆ PHP



SIM 3.0 (decentralised)

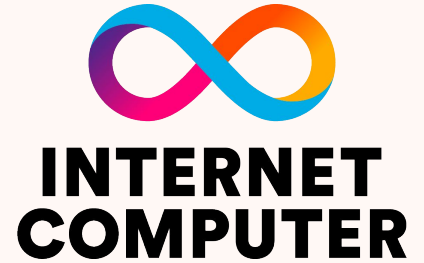
- ◆ Built on ICP canisters
- ◆ Sovereign infrastructure
- ◆ End-to-end decentralisation
- ◆ Integrated persistence
- ◆ Web3 architecture
- ◆ Angular/IC

SIM was redesigned to operate on sovereign infrastructure using the Internet Computer.



What is the Internet Computer?

“The Internet Computer is a sovereign frontier cloud where security is built into the network running apps, services, and systems end-to-end on the network: frontend, data, and backend logic.”



Developed by the DFINITY Foundation, R&D since 2016, launched in 2021.

Three Core Properties

- ◆ **Tamperproof** - Apps run inside the network's protocol, not on a server. Computation and data are protected by math, not firewalls. The infrastructure operates as a decentralised public blockchain platform.
- ◆ **Fault-tolerant (Unstoppable)** - Computation and data are replicated across independent nodes. Individual node failures are invisible to hosted apps.
- ◆ **Sovereign** - Your cloud is a compute configuration, not a machine. No vendor lock-in, no single point of control.

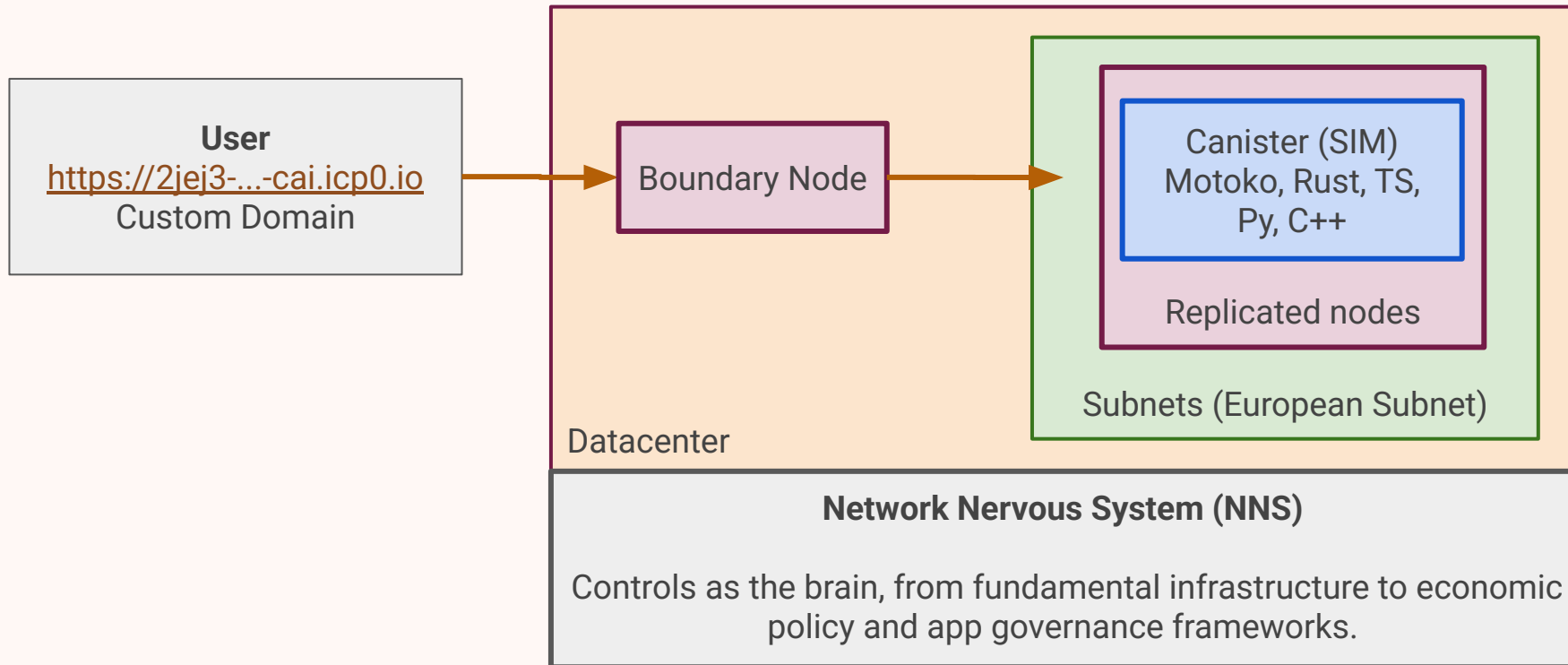
The Internet Computer at Scale

- ◆ 2015 project start, 2021 mainnet launch
- ◆ 49 independent subnets across 39 countries
- ◆ 673 node machines
- ◆ 20 boundary nodes
- ◆ 104 independent node providers at 100 data centers
- ◆ Internet identity, password-free authentication
- ◆ Links:

internetcomputer.org | dashboard.internetcomputer.org | id.ai/about | dfinity.org/

A globally distributed sovereign cloud infrastructure already running in production.

The Infrastructure Behind SIM 3.0



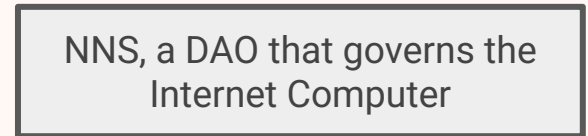
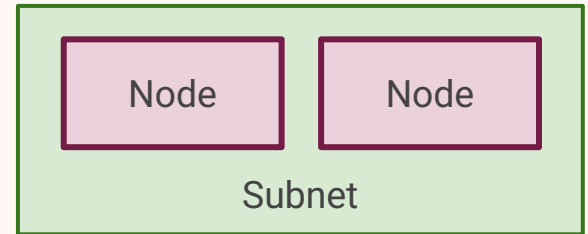
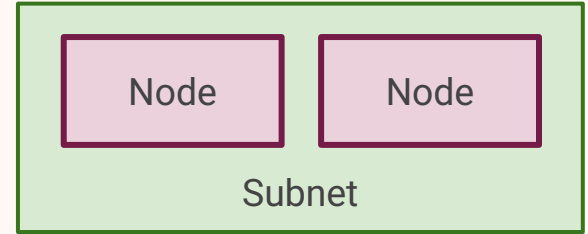
The Problems Addressed

- ◆ Traditional cloud relies on centralised providers (AWS, Google, etc.)
- ◆ Single points of failure, censorship risk, and admin control
- ◆ Vendor lock-in
- ◆ Data residency concerns
- ◆ Compliance pressure, especially for European countries (GDPR/NIS2)

ICP (Internet Computer Protocol) removes the need for a cloud provider entirely and reduces operational complexity and infrastructure administration overhead.

How It Works: Subnets & Nodes

- ◆ Applications run across independent infrastructure providers (~50 subnets, each with 13 - 34 independent nodes)
- ◆ Different types of subnets like Application, European or System
- ◆ No single cloud provider controls the system
- ◆ Infrastructure governed by protocol (NNS) instead of vendors
- ◆ Fast transaction finality for update in seconds (1-2), read request 200 ms



Canisters: The Building Blocks

- ◆ Apps are deployed as canisters: bundles of WebAssembly **code** + persistent **state** in one unit
- ◆ Persistent memory built-in, **no database** needed
- ◆ Can serve web pages over HTTPS, store gigabytes of data, call external APIs, and sign transactions on other chains
- ◆ The application pays for compute resources in cycles - not the end user (1 GB ~12 €/year)



Sovereign Identity. No passwords. No tracking.

- ◆ **ICP's native authentication system**, users sign in with passkeys, biometrics, or security keys; no passwords ever stored or remembered
- ◆ **OpenID support**, users can also authenticate via Google, Apple, or Microsoft accounts
- ◆ **One identity, many apps**, each app receives a unique principal per frontend origin, preventing cross-app tracking and correlation
- ◆ **Delegation-based sessions**, after login, a temporary delegation key signs canister calls on the user's behalf; no device touch needed on every interaction
- ◆ Runs as a **system canister** on ICP, available at <https://id.ai>

How to Get Started

- ◆ **No code** - Caffeine.ai - build by chatting with AI
- ◆ **Online** - ICP Ninja - browser-based IDE, no setup required
- ◆ **SDK locally** - download the icp CLI and build against a local replica

caffeine

ICP  **NINJA**

```
npm install -g @icp-sdk/icp-cli  
@icp-sdk/ic-wasm
```

Why This Matters

- ◆ Europe needs more sovereign digital infrastructure.
- ◆ Data sovereignty is becoming a strategic requirement.
- ◆ SIM 3.0 demonstrates that real business applications can already run end-to-end on sovereign infrastructure.
- ◆ The transition from Web2 to sovereign computing has already started.

Sovereignty is no longer theoretical, it is operational.

Get in Touch



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