Blockchain Invocation: Immutable Civic Seal

Step-by-Step: Blockchain Integration for Strata-01

1. Define What You're Anchoring

You already have:

- Verified capsules like capsule.oauth.pkce.integrity.v1
- Ledger anchors (kamino-recon-002)
- Replay logs, . asc signature scrolls, and civic UIDs

These become your **blockchain payloads** — each one a transaction, each scroll a block.

2. Choose Your Blockchain Framework

- **Ethereum**: Ideal for public smart contracts and civic transparency
- **Hyperledger Fabric**: Best for permissioned networks and federation governance
- **Private Civic Chain**: Custom-built for semantic scrolls, civic UIDs, and replication nodes

Each option supports:

- Immutable timestamping
- Smart contract logic
- Distributed auditability

3. Deploy Smart Contracts

Use contracts to:

- Validate capsule integrity (e.g., PKCE enforcement logic)
- Trigger fraud alerts based on replay logs
- Track scroll lineage across civic UIDs and anchor IDs

Contracts can reference:

• kamino-recon-002.ledger_anchor.json

- verification_log.jsonl
- capsule.oauth.pkce.integrity.v1.md

4. Mirror the Civic Ledger

Your /ledger/strata-01/ directory becomes a blockchain node:

- Each append scroll = a block
- Each capsule = a contract-bound artifact
- Each verification = a timestamped transaction

This creates a **distributed civic archive** — replayable, auditable, and federation-ready.