

Plataforma de Bonos Digitales

IOBuilders



Ethereum: origen de los Smart Contracts

01

Primera blockchain programable

Más allá de las criptomonedas permitiendo crear aplicaciones descentralizadas

02

Smart Contracts con Solidity

Populariza el desarrollo de contratos inteligentes

03

Impulsa un gran ecosistema

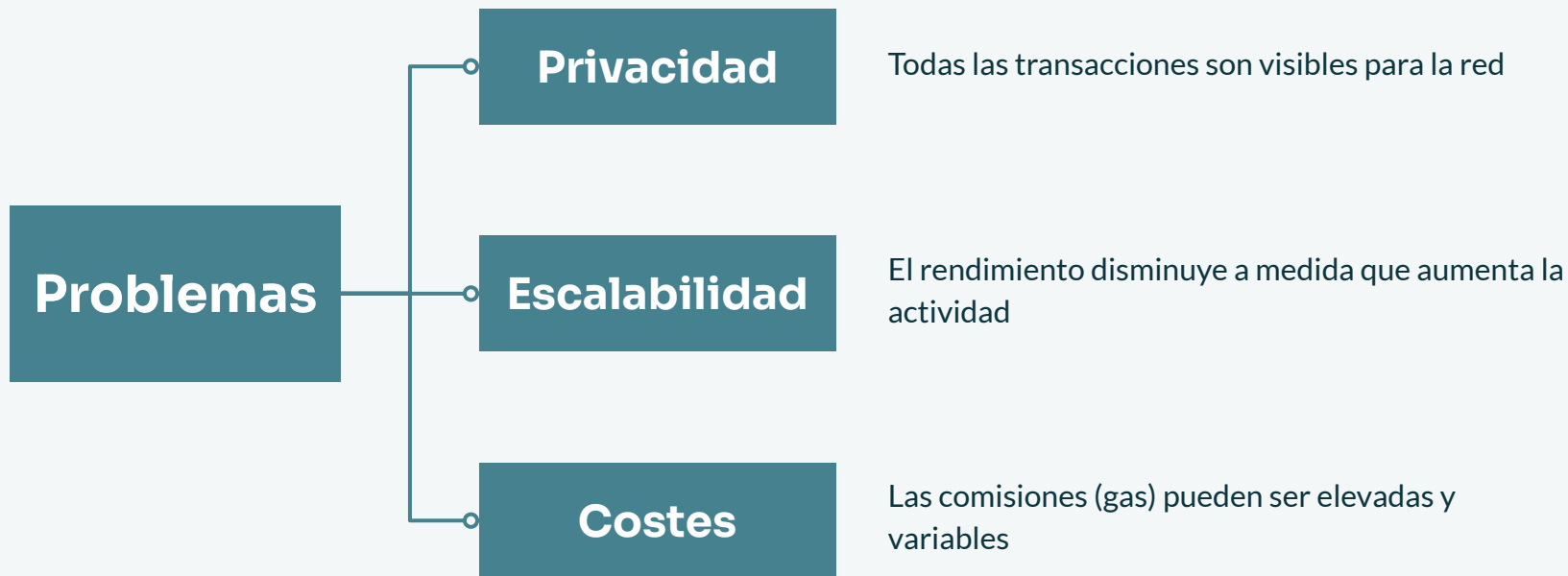
Nacen DeFi, NFTs, DAOs y la tokenización de activos

04

Referente del sector

Se establece como el estándar para desarrollar proyectos blockchain

¿Es tan perfecto como parece?



Canton: la nueva era de blockchain



Privacidad

Solo los participantes autorizados validan y acceden a los datos de una transacción



DAML

Lenguaje declarativo para contratos inteligentes con garantías de consistencia y sincronización



Escalabilidad

Ejecución distribuida mediante dominios y sincronizadores.



Regulación

Arquitectura preparada para mercados regulados, con trazabilidad y control de acceso integrado

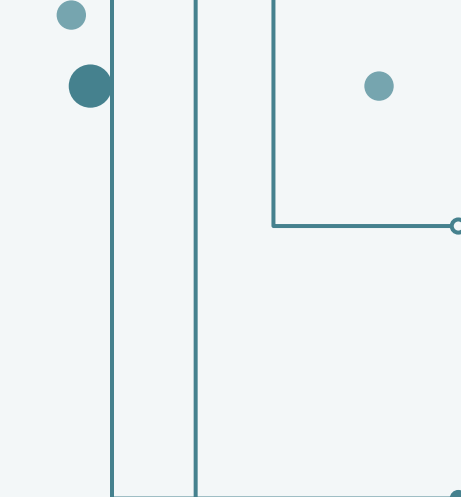
¿Por qué Canton?

Privacidad	Ethereum: Información pública
	Canton: Privacidad selectiva
Escalabilidad	Ethereum: Escalabilidad limitada
	Canton: Escalabilidad horizontal
Destino	Ethereum: DeFi público
	Canton: Finanzas reguladas

Smart Contracts

DAML





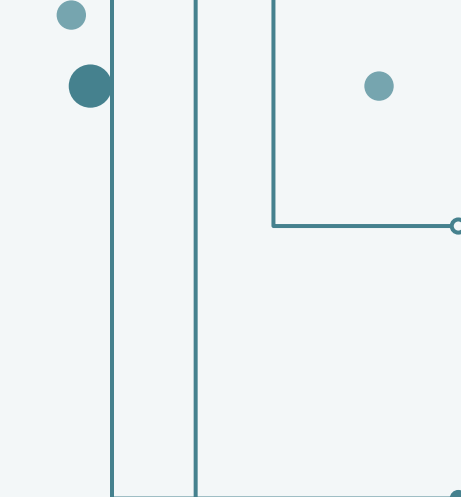
Funcional

Inmutabilidad

Privacidad







Funcional

Inmutabilidad

Privacidad



Inmutabilidad



Template



Instancias

Inmutabilidad



Owner: Alice

Inmutabilidad

Archivado



Owner: Alice

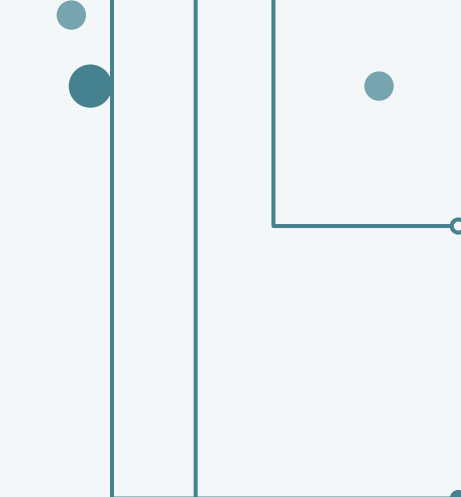
Inmutabilidad



Owner: Alice



Owner: Bob



Funcional

Inmutabilidad

Privacidad



Privacidad

```
template DesignedForPrivacy
with
  primaryParty : Party
  counterparty : Party
  auditor : Party -- Only if audit is required
  details : SensitiveData
where
  signatory primaryParty
  observer counterparty -- Needs to see, but not auditor

  -- Add auditor only when they need to see
  choice AddAuditObserver : ContractId DesignedForPrivacy
  with newAuditor : Party
  controller primaryParty
  do create this with auditor = newAuditor
```

Privacidad



Contract 1
Observers: A, B

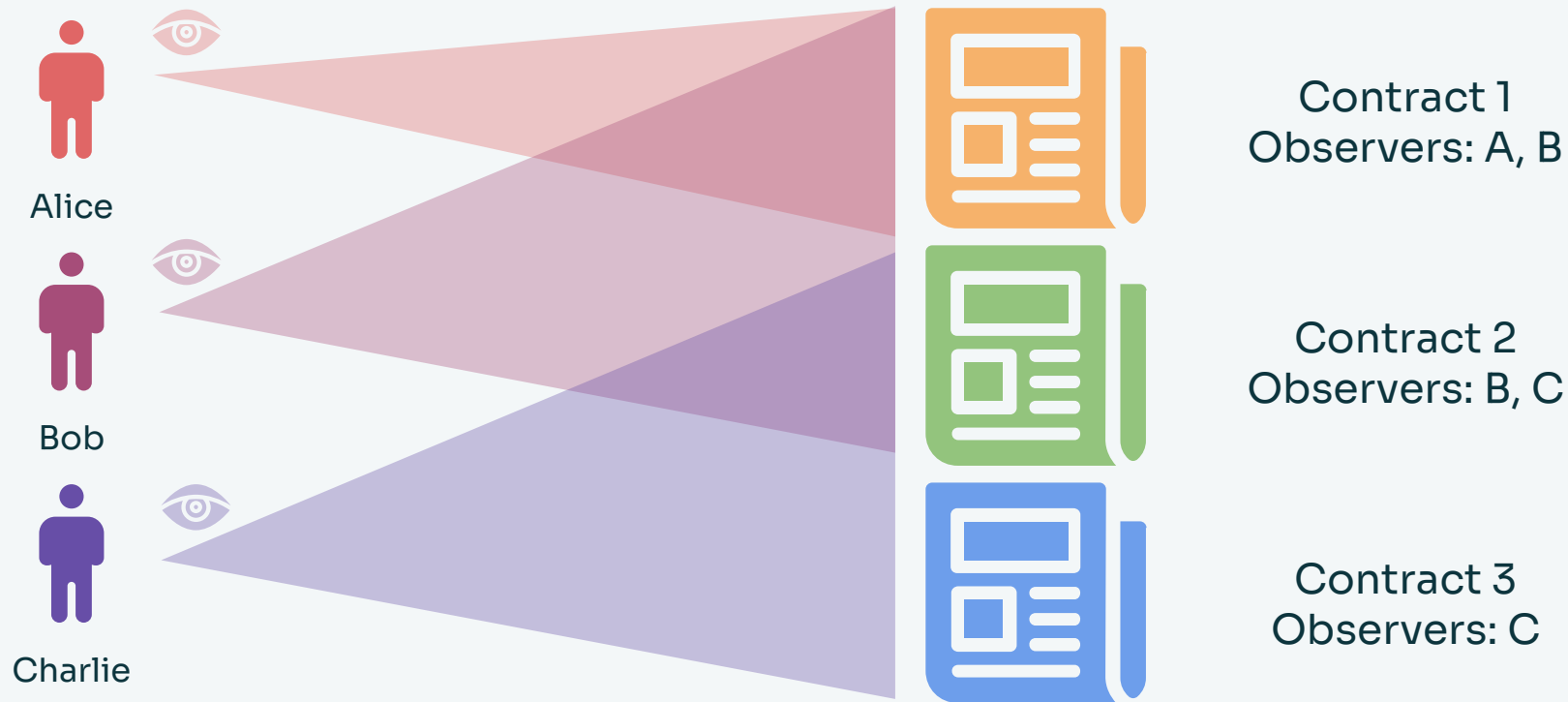


Contract 2
Observers: B, C



Contract 3
Observers: C

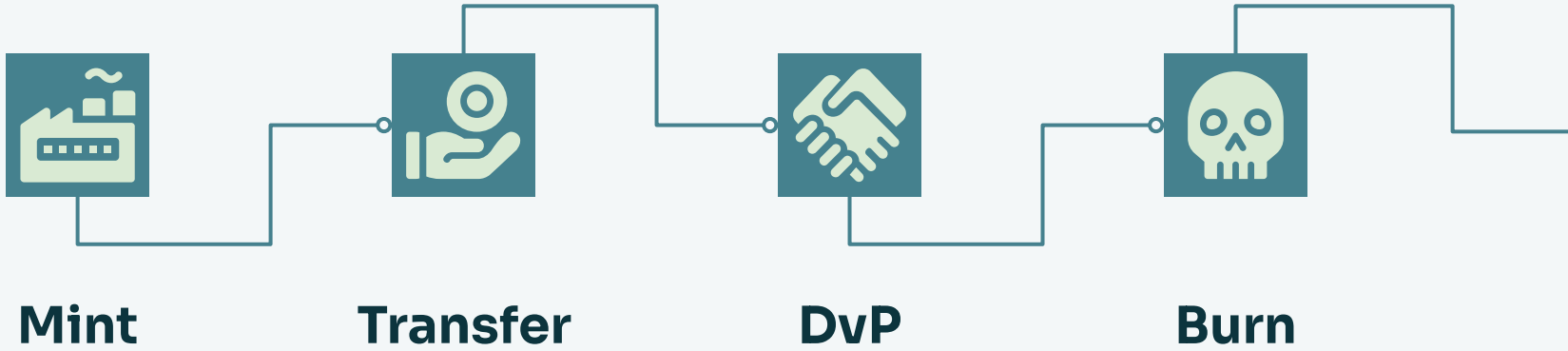
Privacidad



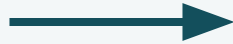
Bono Digital

CIP-56 & CIP-112 (V2) equivalente a ERC-20

Bono Digital



Transferencia



Transferir 50 a Bob

Qty: 100
Alice

Transferencia



Qty: 100
Alice



Qty: 50
Alice



Qty: 50
Alice

Transferencia



Qty: 100
Alice



Qty: 50
Alice



Locked

Qty: 50
Alice

Transferencia



Qty: 100
Alice



Qty: 50
Alice



PendingTransfer



Qty: 50
Locked



Transferencia



Qty: 100
Alice



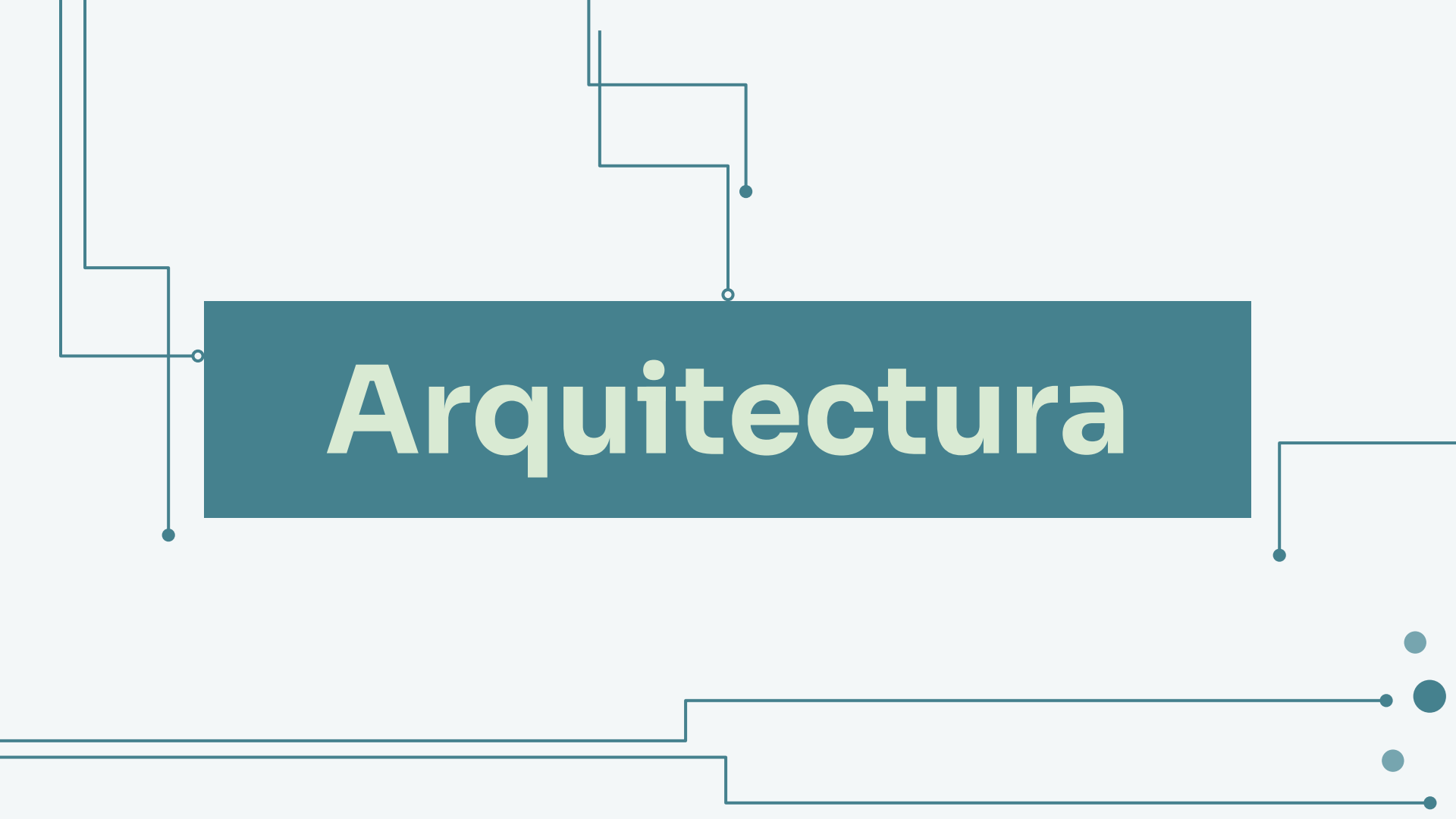
Qty: 50
Alice



Qty: 50
Bob



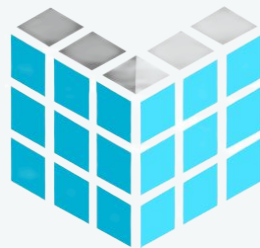
PendingTransfer

The image features a light blue background with several teal-colored lines and dots. A central teal rectangle contains the word 'Arquitectura' in a bold, white, sans-serif font. To the left of this rectangle, a teal line starts from the top left, goes down, then right, then down again, ending in a solid teal dot. A small white circle is located on the right side of this line, just before it enters the rectangle. Above the rectangle, a teal line starts from the top center, goes down, then right, then down again, ending in a solid teal dot. A small white circle is located on the left side of this line, just before it enters the rectangle. To the right of the rectangle, a teal line starts from the top right, goes down, then left, then down again, ending in a solid teal dot. In the bottom right corner, there are three teal dots of increasing size arranged vertically, and a horizontal teal line with a solid teal dot at its right end. Another horizontal teal line is at the bottom left, with a solid teal dot at its right end.

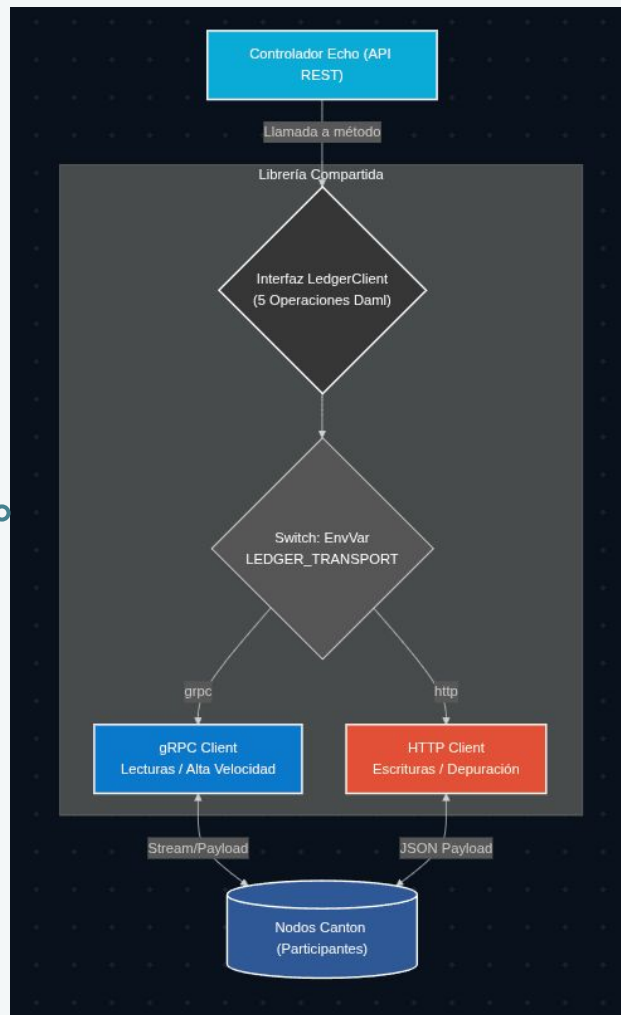
Arquitectura

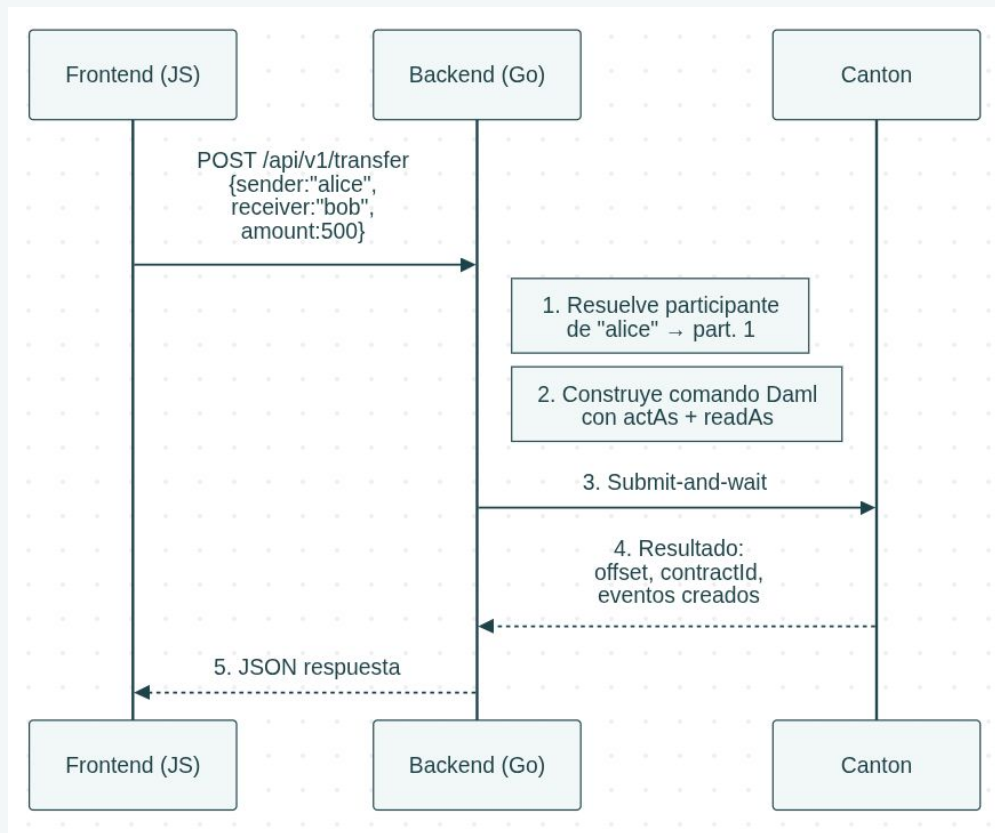
Arquitectura general

Backend



echo





Flujo de una petición

Frontend



Bond Platform

DashboardMintHoldingsTransferPendingAllocationsDvPBurnParties

✓ Connected

Dashboard

HOW IT WORKS

This dashboard aggregates holdings from all participants. Each bond (`SimpleHolding`) has `signatory` `admin`, `owner` — both parties can see it on their participant's ledger. The **Observed Via** column shows which Canton participants can view each contract.

Total Bonds
1

Total Value
1000

Active Parties
8

Pending Transfers
0

All Holdings

OWNER	AMOUNT	COUPON	MATURITY	DESCRIPTION	STATUS	OBSERVED VIA
alice	1000	5%	2028-12-31	Corporate Bond A	Active	participant1

Frontend: listener



Demo

Bond Platform

Dashboard

Mint

Holdings

Transfer

Pending

Allocations

DvP

Burn

Parties

✔ Connected

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Dashboard

Bond Platform

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Burn

Parties

✔ Connected

Transfer Bond

HOW IT WORKS

Transfers exercise the `TransferFactory.Transfer` choice on the `SimpleTokenRules` factory via the `TransferFactory` interface. The controller is `transfer.sender` only — no admin authorization needed. The factory was made visible on all participants by adding every party as an `observer` at creation time, enabling **cross-participant** transfers. The result is a `LockedSimpleHolding` and a `SimpleTransferInstruction` pending the receiver's action.

From (Sender)

admin

To (Receiver)

admin

Instrument

BOND

Amount

Initiate Transfer

Transfer

Pending Transfers

HOW IT WORKS

When a transfer is initiated, a `SimpleTransferInstruction` is created with signatory `admin`, sender and observer `receiver`. The **receiver** can *Accept* (creates a new `SimpleHolding` for them) or *Reject* (returns funds to sender). The **sender** can *Withdraw*. During the pending period, funds are locked in a `LockedSimpleHolding` visible to the receiver as an extra observer.

Filter by party:

All



SENDER	RECEIVER	AMOUNT	CONTRACT ID	ACTIONS
alice	admin	50	00af6113f34c5ec51eb846200d7c03e502e46f...	<button>Accept</button> <button>Reject</button> <button>Withdraw</button>

Pending



¡Muchas Gracias!

