Effective decentralization for Intent-Based protocols

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Exploring Intents

Intents in DeFi / Swaps

I want to swap token A for token B

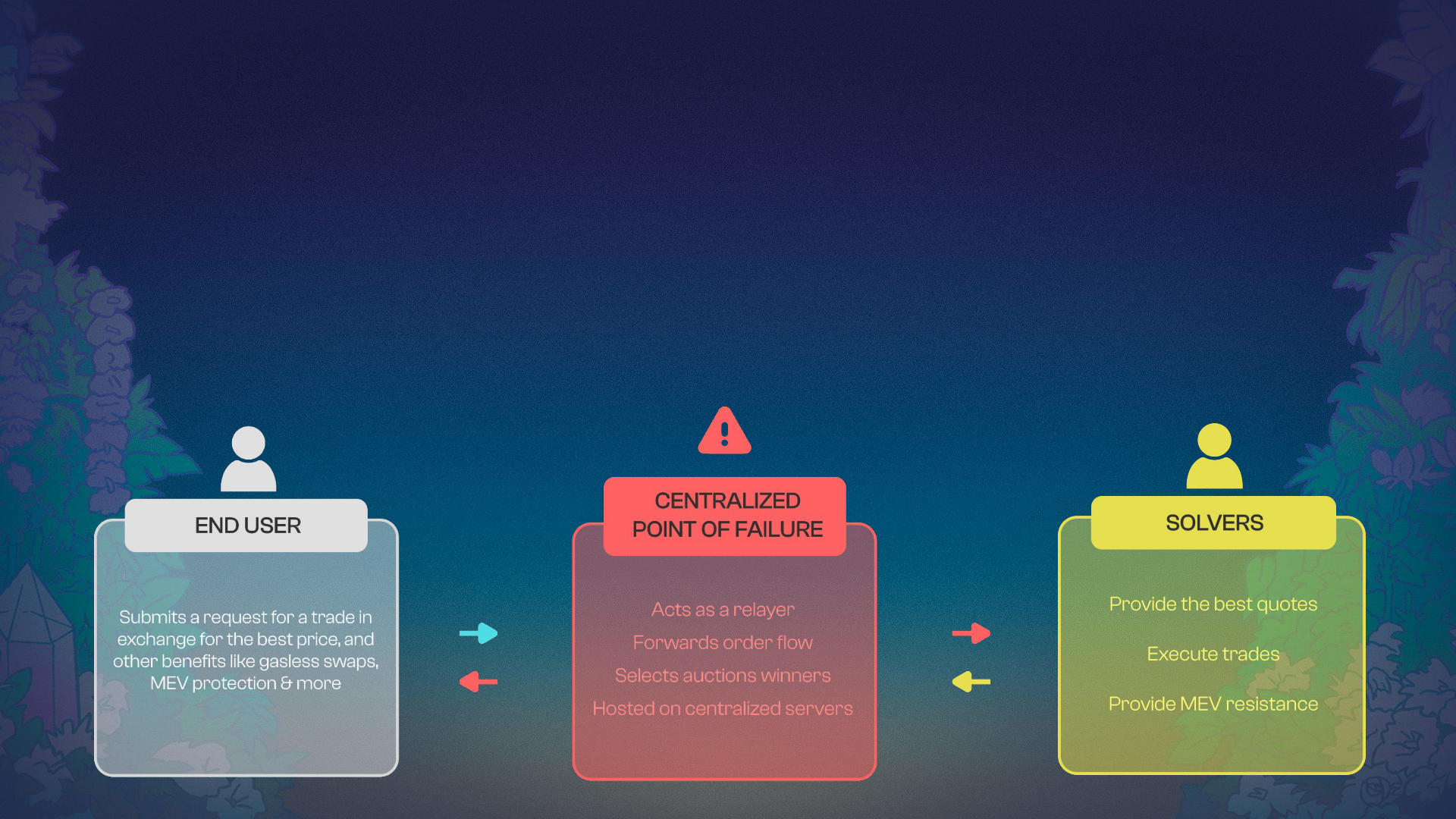
END USER

Sure, let me make that for you

RELAYERS / BACKEND API..

AGENTS / SOLVERS / MARKET MAKERS..

TOKEN A
🔄
TOKEN B


END USER
Submits a request for a trade in exchange for the best price, and other benefits like gasless swaps, MEV protection & more
CENTRALIZED POINT OF FAILURE
Acts as a relayer
Forwards order flow
Selects auctions winners
Hosted on centralized servers
SOLVERS
Provide the best quotes
Execute trades
Provide MEV resistance

Portikus

END USER

Best Execution

MEV Resistance

Gasless Transactions

Cross-chain

RELAYER

Abstract the DL Network

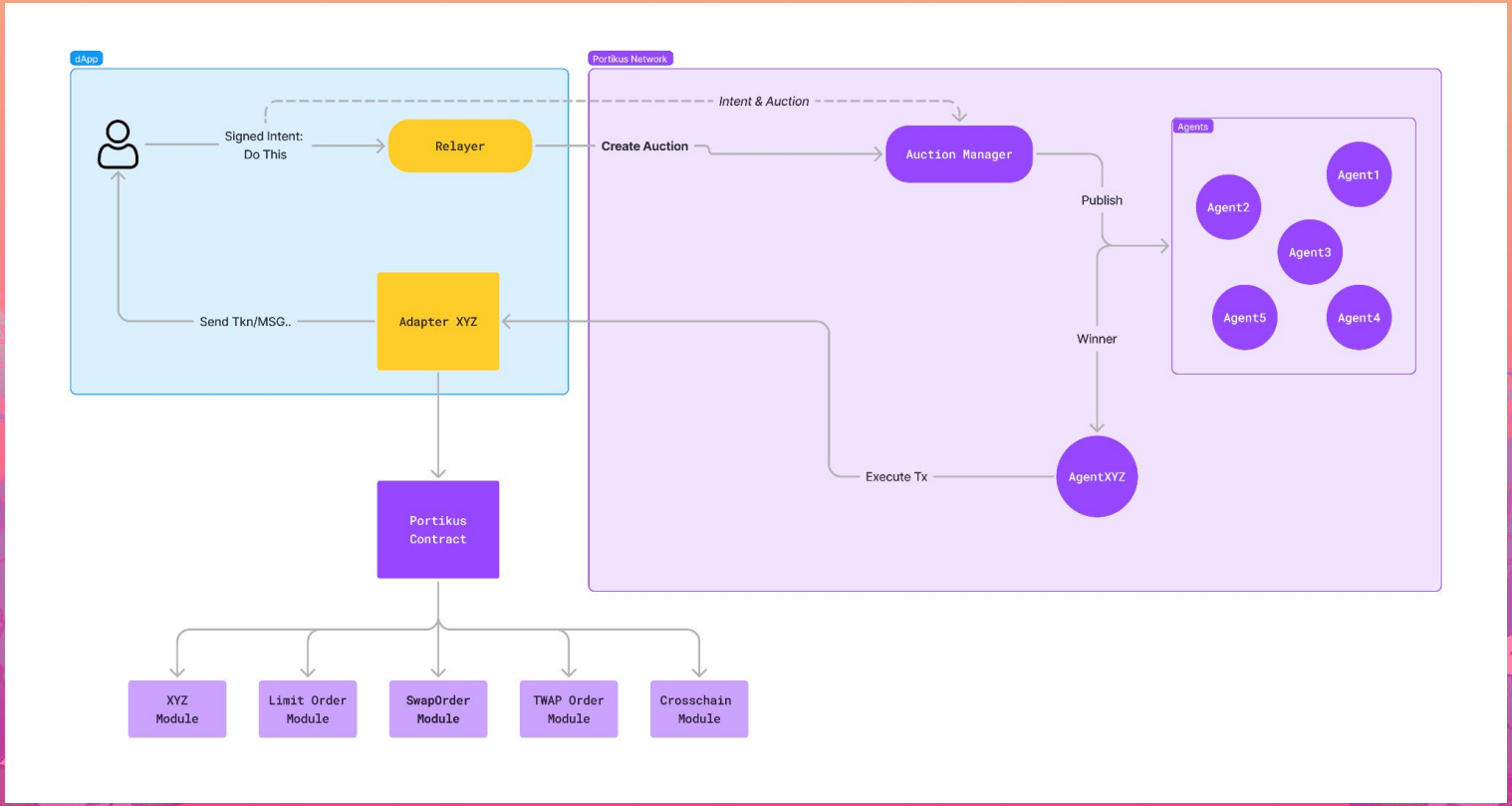
Quality controls and forwards order flow to DL

[Optional] Users can tap into the DL directly

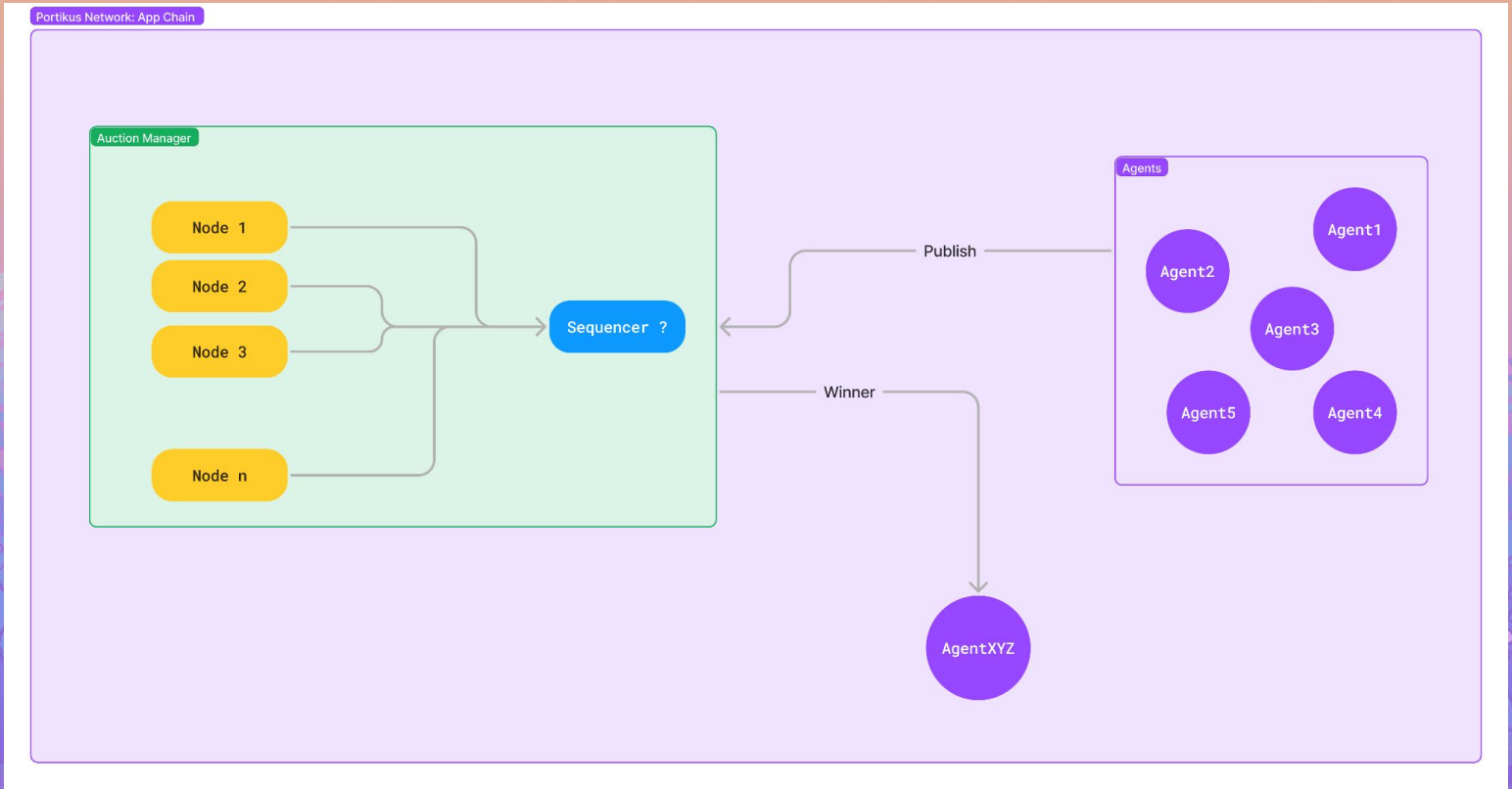
SOLVERS

Provide the best quotes
Competes with other Solvers to provide the best quotes in exchange for order flow.
Execute trades
Provide MEV resistance

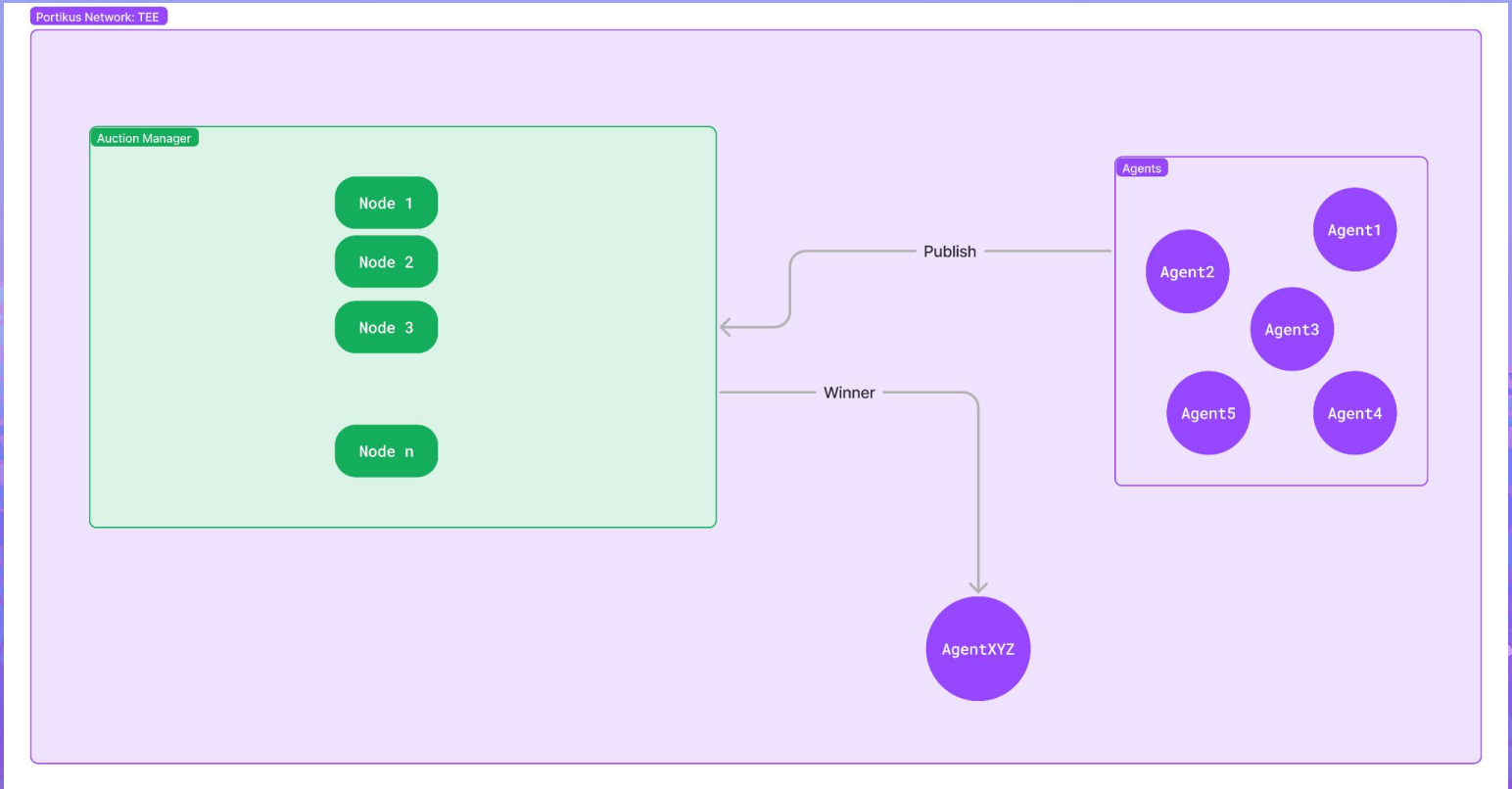
The system


dApp
Portikus Network
Intent & Auction
Signed Intent:
Do This
Relayer
Create Auction
Auction Manager
Publish
Agents
Agent1
Agent2
Agent3
Agent5
Agent4
Send Tkn/MSG..
Adapter XYZ
Winner
Execute Tx
AgentXYZ
Portikus
Contract
XYZ
Module
Limit Order
Module
SwapOrder
Module
TWAP Order
Module
Crosschain
Module

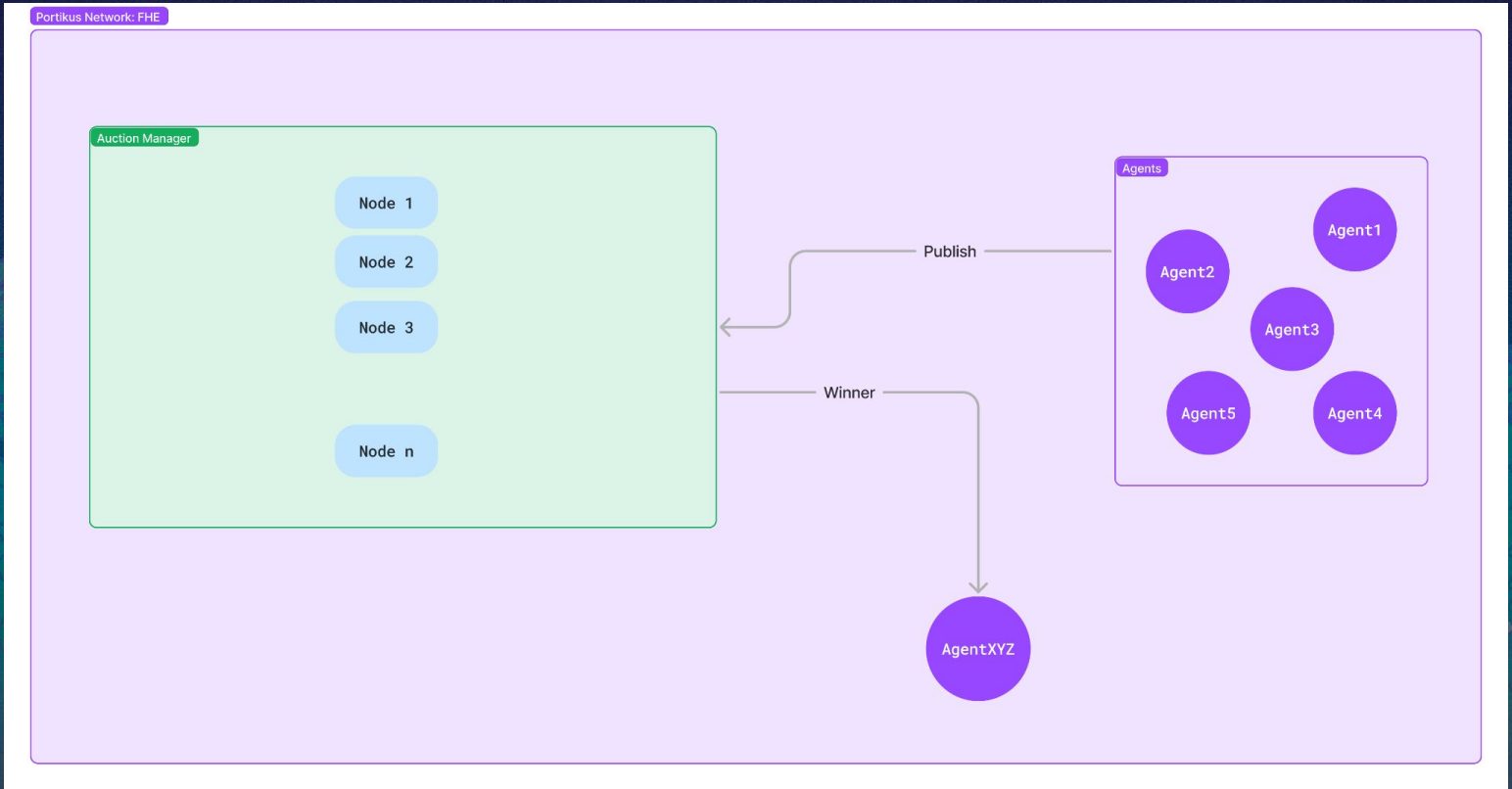
Approaches for the Portikus Network: App Chain



Approaches for the Portikus Network: TEE / MPC



Approaches for the Portikus Network: FHE



Thank you all!
@mounibec
@0xlaita