Kiln Products Overview
&
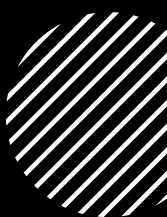# Reporting API demonstration

A high-level overview of Kiln Validators & Kiln Widget

Secure | Scalable | Seamless

Presented by: Nestor Saavedra, Product Support Engineer

Date: 3/22/2025

The Problem: Staking Complexity

Running validators requires technical expertise & 24/7 monitoring.

Risks include slashing, downtime, and security vulnerabilities.

High infrastructure costs and operational overhead.

Regulatory & compliance complexities.

The solution: Kiln offers a fully managed, institutional grade staking solution.

WHAT ARE KILN VALIDATORS?

Enterprise grade staking infrastructure.

Fully managed validators so businesses don't need technical know how.

Removes complexity for businesses & institutions.

Supports major Proof-of-Stake blockchains.

Why choose Kiln over other staking providers?

The Kiln Advantage: Secure, Efficient, and Scalable

Feature	Kiln Validators	Other staking solutions
Fully managed service	Yes	No, often self managed
Institutional security	Yes	Varies
Slashing protection	Yes	Limited or Manual
Multi-chain support	Yes	Often single-chain
Automated rewards	Yes	Varies

# Who Benefits from Kiln's Validator Infrastructure?

"By working with Kiln we've been able to keep our focus on our core services and roadmap; their expertise allowed us to quickly leverage their staking solution for our needsand that of clients."

— BENOÎT BOSC, GSR GLOBAL HEAD OF PRODUCT

- **Institutions & Asset managers - Securely stake large holdings.**
- **Crypto Exchanges - Offer staking services to customers effortlessly.**
- **Custodians & Wallet providers - Add staking as a revenue-generating feature.**
- **DAOs & Web3 Companies - Simplify staking without managing infrastructure.**
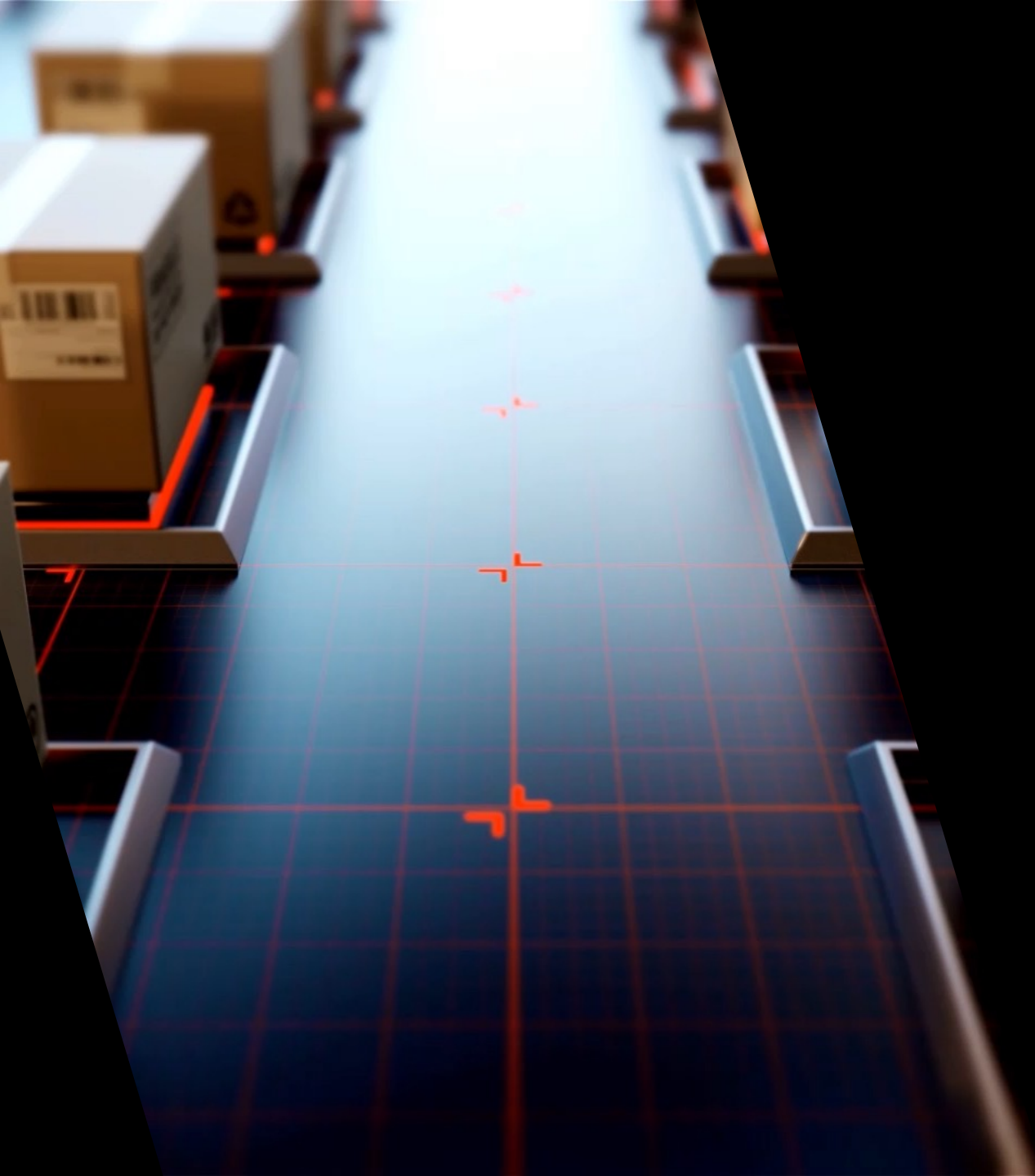
From Staking Infrastructure to Seamless Integration

Kiln Validators solve the problem of running secure, high-performance staking nodes for institutions

But what if a business (like a wallet, exchange, or fintech app) wants to offer staking to its users, without deep blockchain expertise?

That's where Kiln Widget comes in.

What is the Kiln Widget?

- Kiln Widget: Plug-and-Play Staking for any business.

- No-code staking solution -integrate in minutes.

- Fully customizable UI - match your brand.

- Mult-Chain support - stake across multiple blockchains.

- Kiln-managed security - fully audited & monitored.

Why Businesses Love Kiln Widget

Kiln Widget VS. Building Your Own Staking Solution

Feature	Kiln Widget	Custom-Built Staking
Setup time	Less than a day	Months of dev work
Security	Fully managed	Self-managed risks
Compliance-ready	Yes	Requires legal & Security audits
Blockchain support	Multi-Chain	Often single blockchain
Customization	Yes (UI, Branding)	Requires extensive work
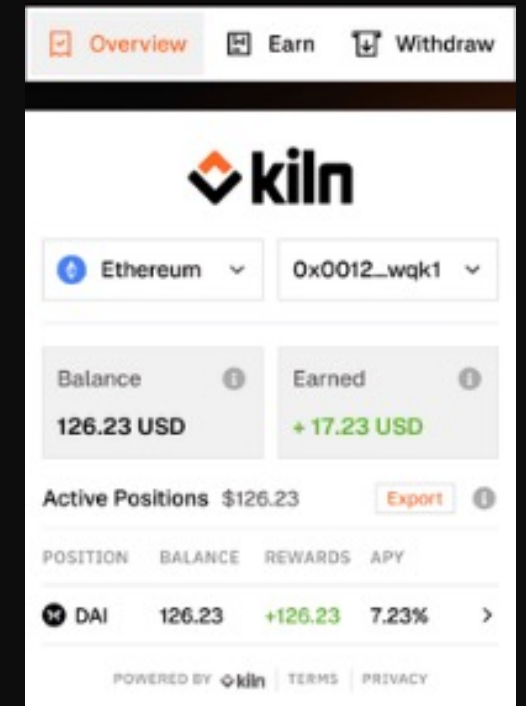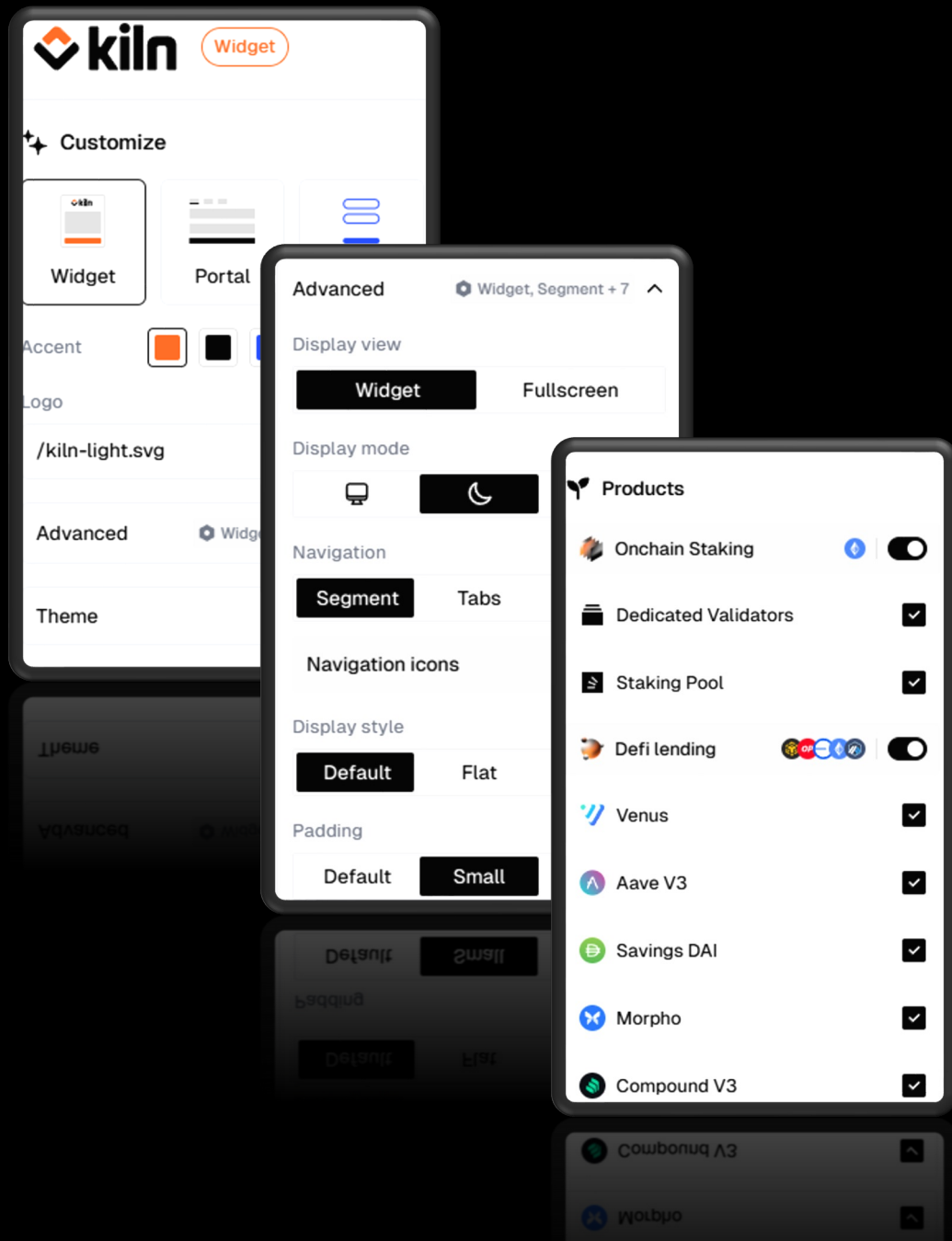
Kiln Widget Editor Customization

- Advanced branding and color customization to match your exact visual identity.

- Logo and theme adjustments (dark mode, light mode, and more).

- Flexible layout and typography controls, including fonts, padding, and spacing.

- Simple, secure exporting via branded integration links or easy-to-use JSON configuration files.

Use Cases for Kiln Widget

HOW BUSINESSES USE KILN WIDGET

CRYPTO WALLETS - ADD STAKING FOR USERS IN LESS THAN A DAY

EXCHANGES - OFFER STAKING TO CUSTOMERS WITHOUT BUILDING AN IN-HOUSE SYSTEM

FINTECH APPS - MONETIZE STAKING WITH MINIMAL EFFORT

DAOS & NFT PLATFORMS - ENABLE STAKING REWARDS FOR TOKEN HOLDERS

Why Kiln?

Kiln makes staking simple, secure & scalable.

Kiln Validators – Fully managed staking infrastructure for institutions

Kiln Widget – No-code staking integration for business

Trusted by leading Web3 companies

Multi-chain support for maximum flexibility

Simple integration for businesses

Kiln Reporting API: Performance Comparison

Reporting API

Collect rewards & performance in data real time across chains and staking operators in a unified way.

- Save your engineering team bandwidth
- Provide robust reporting to users
- Automate accounting and compliance

What are we comparing?

- Compared performance (APY) of Kiln vs Non-Kiln validators on Holesky testnet.

- Based on two clusters of 50 validators, each identified by withdrawal credentials.

- Focused on:
  - CL APY (Consensus Layer)
  - EL APY (Execution Layer)
  - Total rewards/Gross APY

How I gathered the data?

- Used Kilns reporting API to fetch validator data.

- Cluster 1: 'scope=kiln' to filter Kiln-managed validators.

- Cluster 2: Non-Kiln validators using known withdrawal credential: 'Address'.
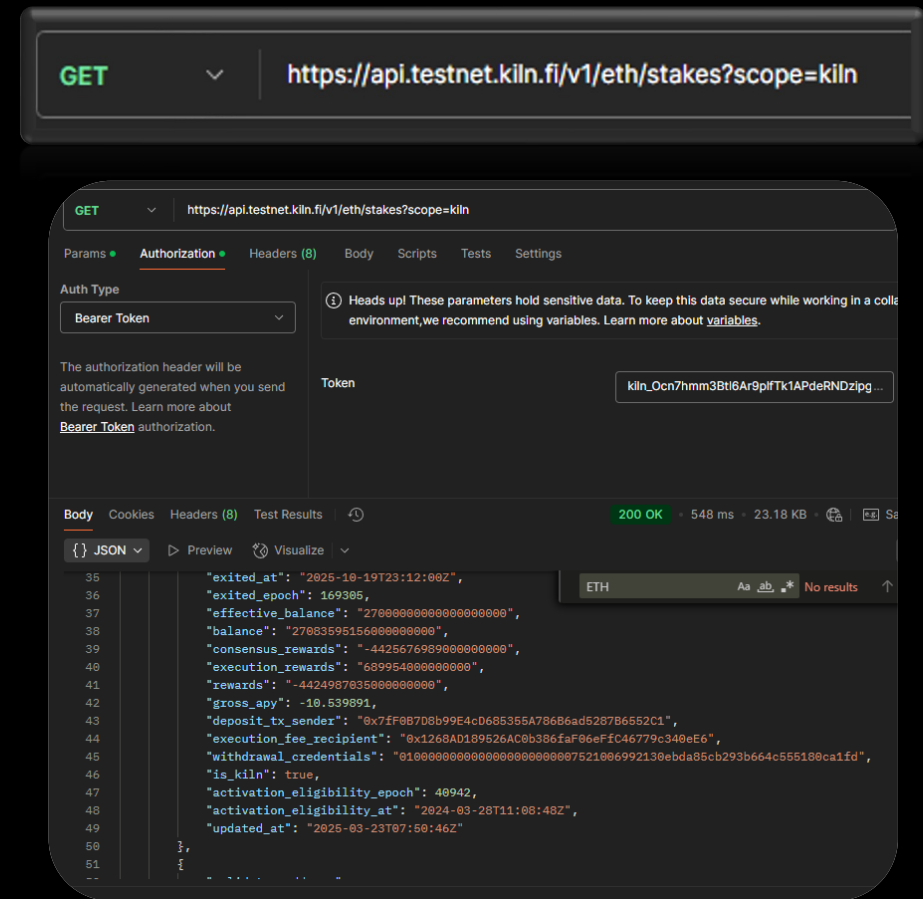
Cluster Comparison Summary

Metric	Kiln (Rows 2–26)	Non-Kiln (Rows 27–76)
Gross APY (%)	-11.42011704	-6.3027679
Consensus Rewards	-4.40E+18	-3.70E+18
Execution Rewards	9.9474E+15	1.38E+16
Total Rewards	-4.39E+18	-3.69E+18

- Clusters have negative Gross APY.
- Consensus rewards are negative, which brings down total rewards.
- Execution rewards remain positive for both clusters.

Performance Comparison

Validator Rewards Comparison: Kiln vs Non-Kiln (Holesky Testnet)
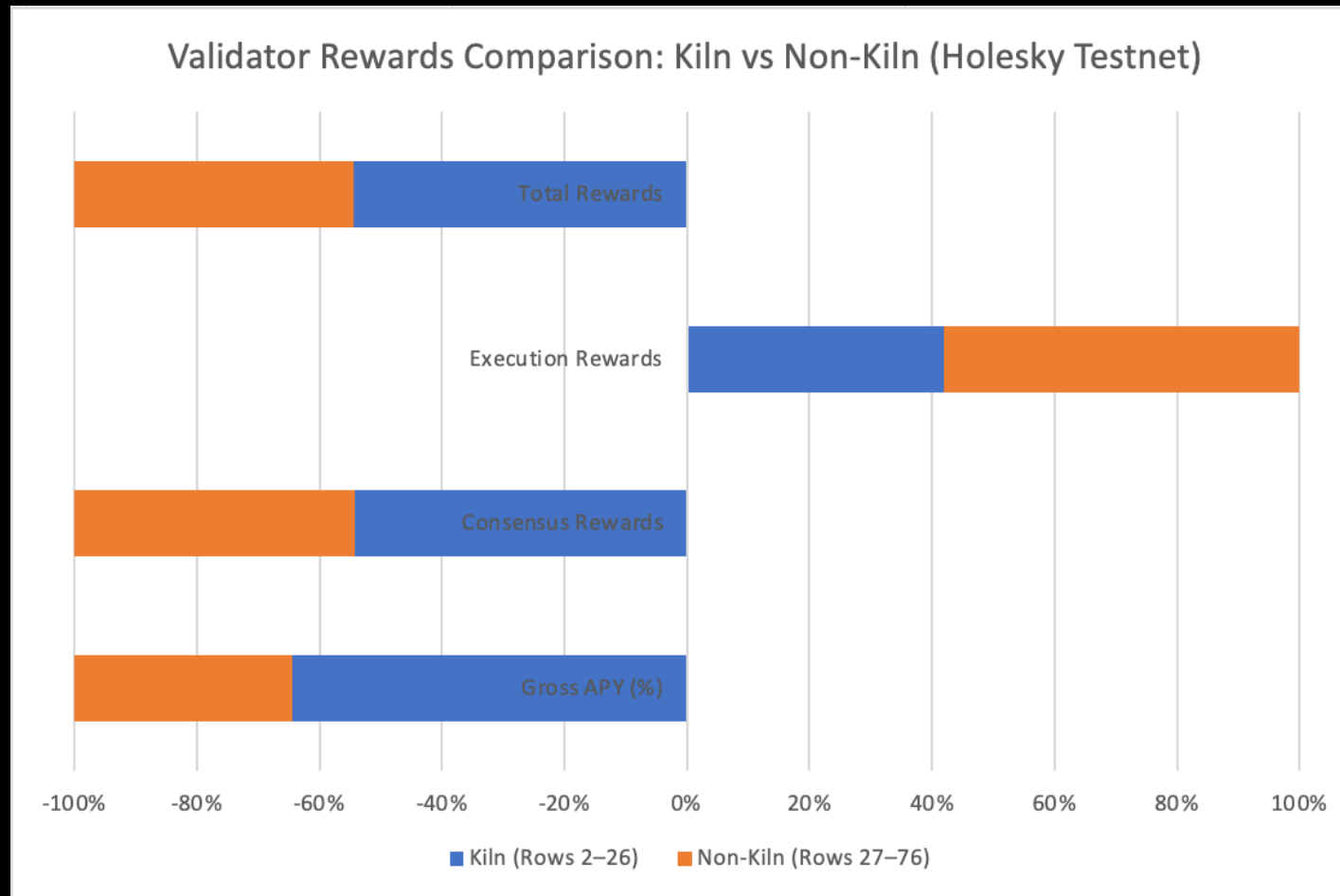
- Kiln had higher negative APY.

- Execution rewards were positive for both.

- Holesky tesnet issues may explain negative results.

What does this tell us?

- Both clusters show negative consensus rewards due to Holesky winding down.

- Kiln validators had more negative APY, but likely due to being in active exiting state.

- Execution rewards remained positive, indicating validator activity still produced value.

Ethereum to Sunset 'Holesky' Testnet in September

The deprecation plan comes after Holesky fell offline due to a faulty test of Ethereum's upcoming Pectra update.

BY MARGAUX NIJKERK | EDITED BY SAM KESSLER

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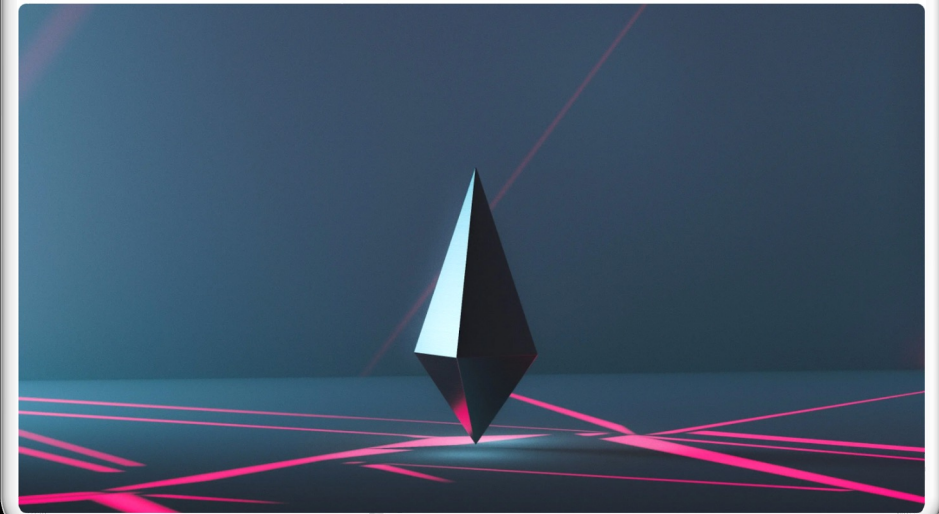
How Customers Can Use This

- Kiln's API provides deep visibility into validator performance.

- Easy to filter by role('scope=kiln'), status, or rewards metrics.

- While Holesky limits ideal APY comparison, this exercise shows how clients can run custom data-driven performance reports at scale.

- Output can be added to dashboards or analytics pipelines.

Thank you

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