MONTHLY REPORT #17

OCTOBER 2023

NOTRUSTVERIFY.CH

Here is a summary of the work done by No Trust Verify since our last report

12 OCTOBER

Ralph is an innovative smart contract language designed for the Alephium blockchain, boasting enhanced security and efficiency when compared to Solidity. However, the choice between these two languages depends on your specific needs.

In our recent blog post, we delved into a comprehensive comparison between Ralph and Solidity, emphasizing their key distinctions. You can read the full article here.

Additionally, we showcase a practical example of a Solidity smart contract that has been reimagined in Ralph. You can explore this demonstration here.

```
{
    enum ErrorCodes {
        InvalidCaller = 0
    }

    pub fn getBalance() -> (U256){
        return balance
    }

    @using(assetsInContract = true, updateFields = true, checkExternalCaller = true)
    pub fn withdraw(amount: U256) -> (){
        let caller = callerAddress!()
        checkCaller!(caller == owner, ErrorCodes.InvalidCaller)

        balance = balance - amount
        transferTokenFromSelf!(caller, ALPH, amount)
    }

    @using(preapprovedAssets = true, assetsInContract = true, updateFields = true)
    pub fn receive(address: Address, amount: U256) -> (){
        balance = balance + amount
        transferTokenToSelf!(address, ALPH, amount)
```

19 OCTOBER

We've published a new blog post providing a detailed guide on how to develop applications using the Nym mixnet as a base. We hope this resource helps you explore the potential of Nym mixnet for your applications.
https://blog.notrustverify.ch/how-to-build-application-on-top-of-the-mixnet-the-example-of-pastenym

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24 OCTOBER

We're delighted to become one of the guardians enabling the bridge between Alephium and Ethereum which will launch very soon. Together with the other guardians, we will secure the bridge by verifying transactions.
https://twitter.com/alephium/status/1716858711493493013

26 OCTOBER

Deployment of the NTV14 mixnode, this is one of the first mixnodes to operate in Santiago, Chile.

Identity key
6P6hShyfbki1CTUDb5QzoXkqsHDP95mf3b5dJNCKBfio

27 OCTOBER

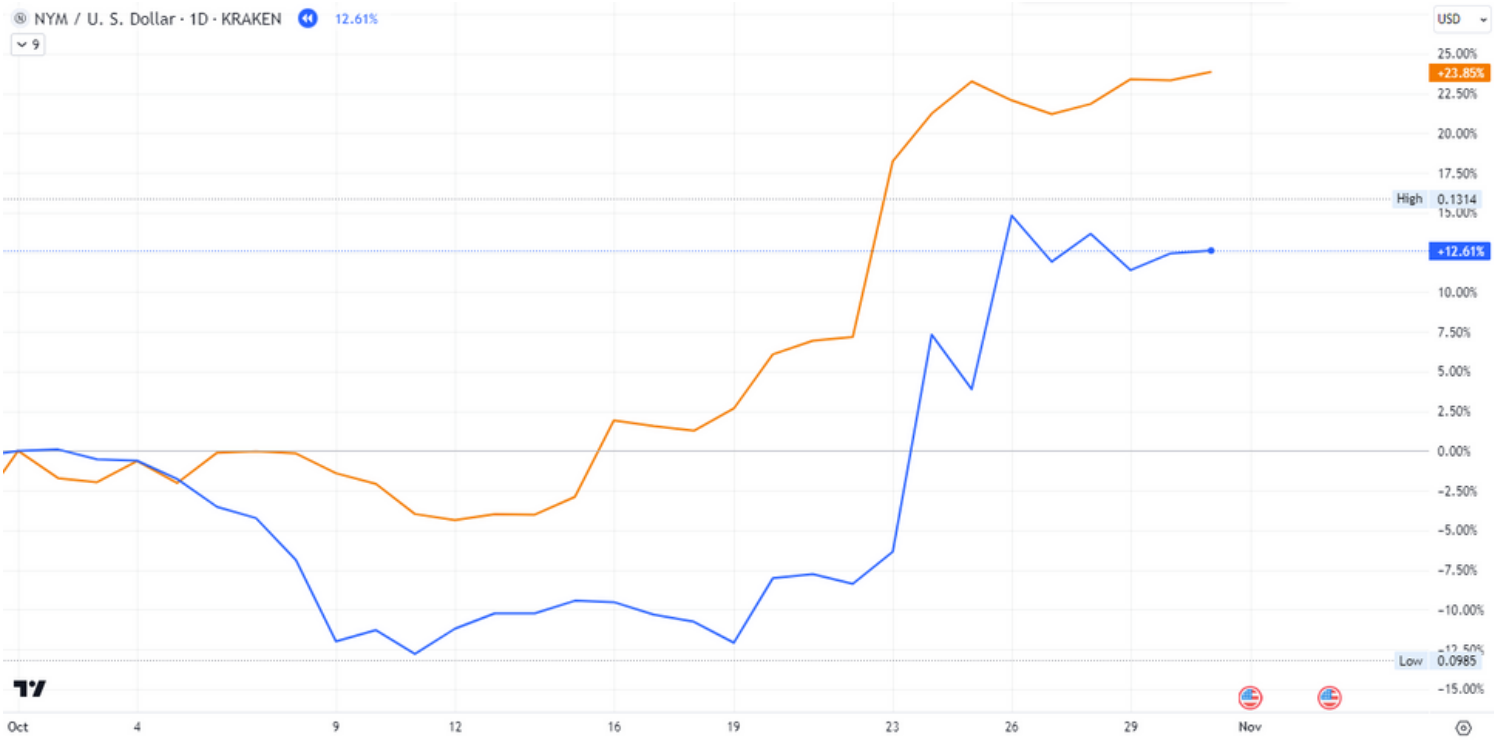
Explore this Proof of Concept that has been developed to retrieve price data from Coingecko while ensuring data privacy through Nym's innovative solution, known as mixFetch. By utilizing this platform, you can access precise price information while safeguarding your privacy.

Feel free to visit the PoC here: https://notrustverify.github.io/mixfetch-examples/

NYM METRICS

On the following pages, you'll find some of the most important metrics of the NYM network.

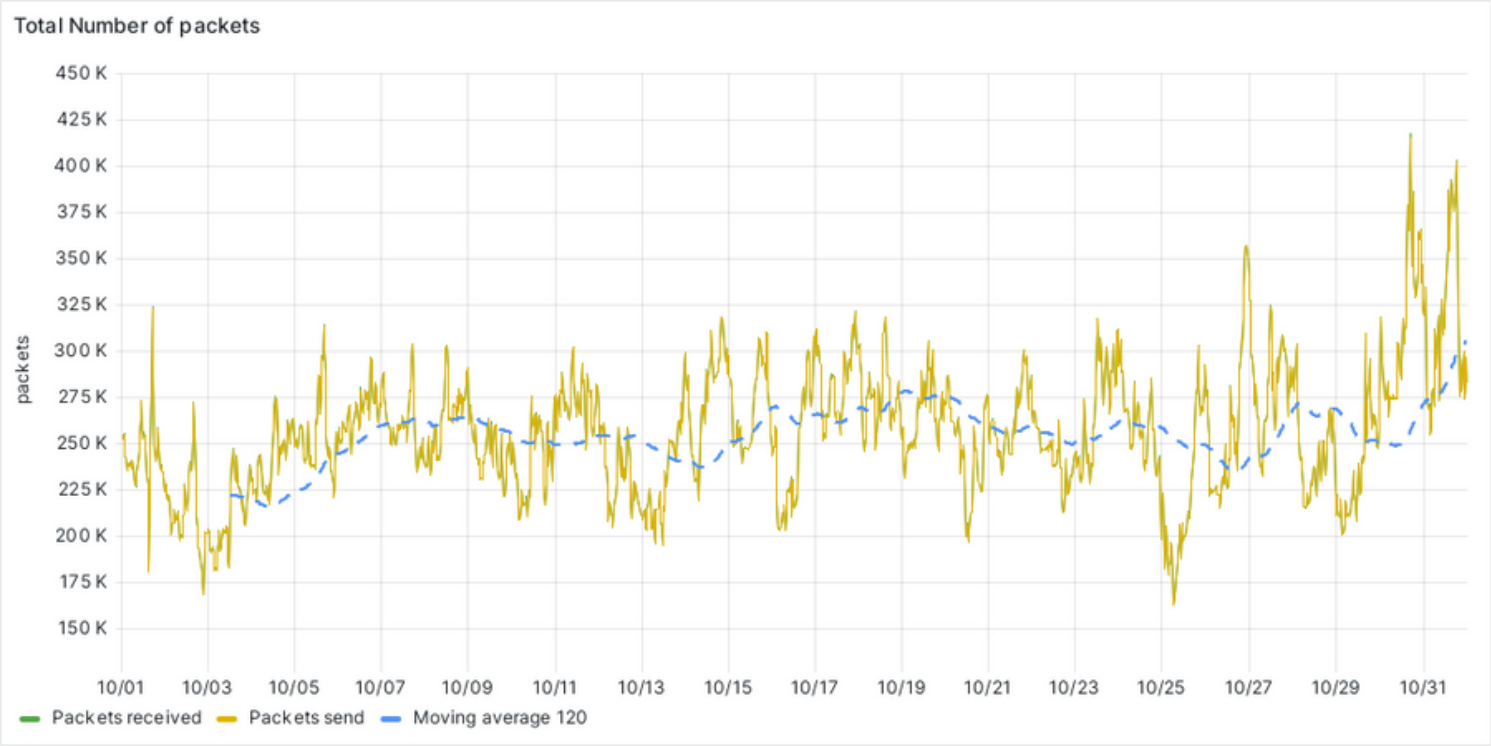
To begin with, here is an evolution of the price of $NYM with a comparison to BTC, over the month of October.



NYM is part of the Cosmos ecosystem. We check $NYM performance against $ATOM, the ecosystem native token.

NYM METRICS

Evolution of packet processing for the entire mixnet. We can see that this month the number of packets transmitted is increasing. Representing an increased use of the mixnet, potentially due to the Nym Shipyard Academy currently happening.

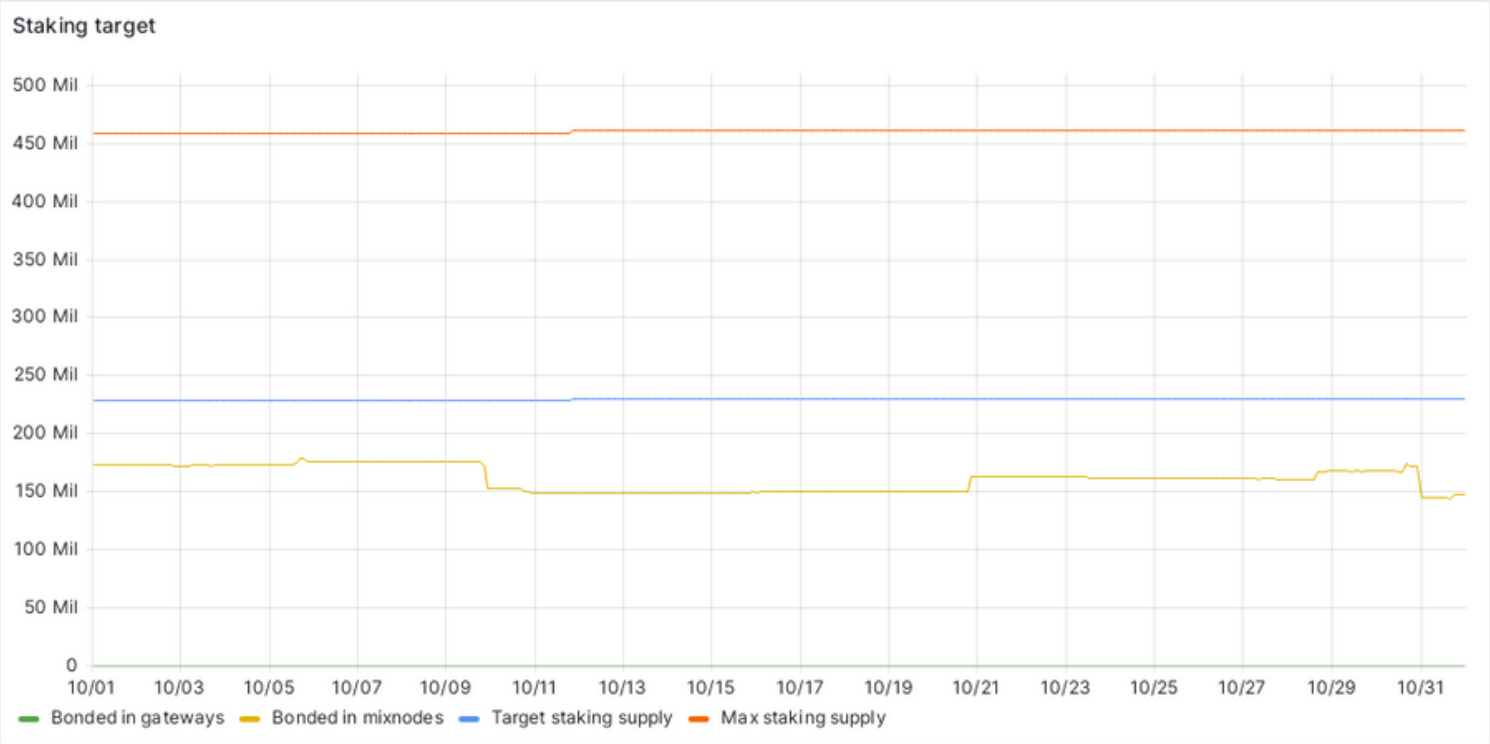


This section shows the evolution of the total number of mixnodes.

NYM METRICS

This section shows the evolution of the total number of gateways.

Evolution of stake saturation.



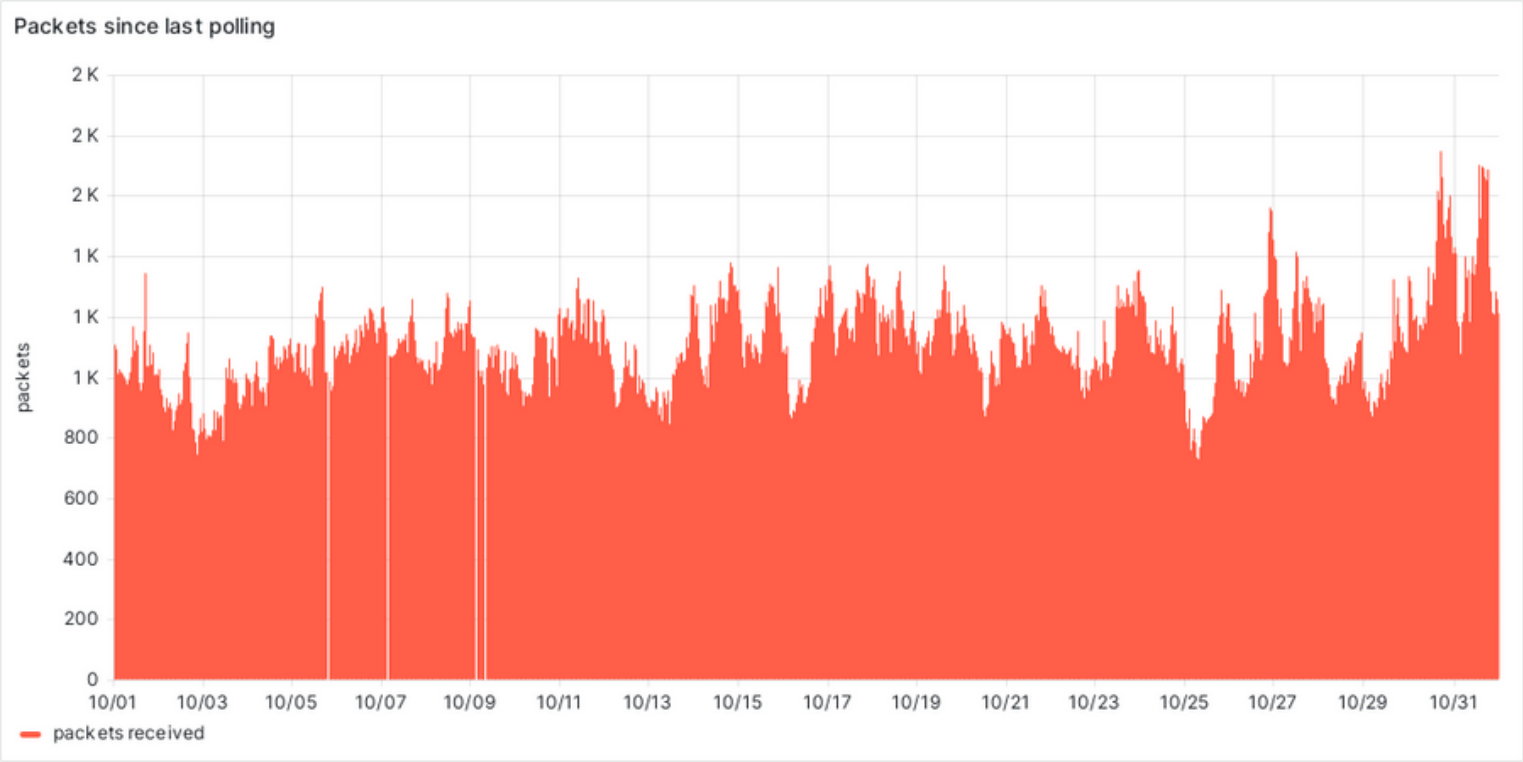
For more details about the metrics related to the Nym Mixnet, do not hesitate to consult our grafana:

https://status.notrustverify.ch/grafana/d/CW3L7dVVk/nym-mixnet?orgId=1

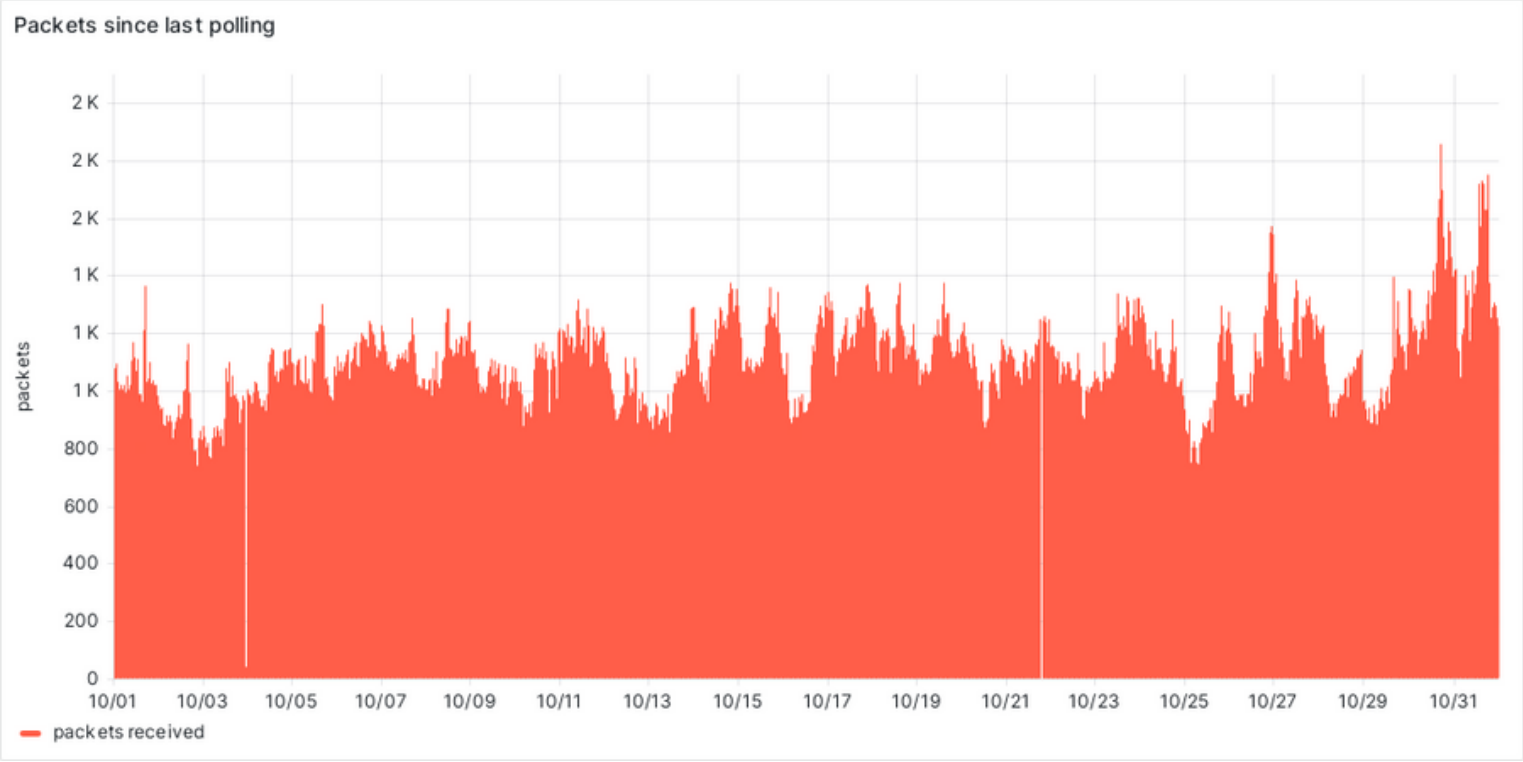
NTV METRICS

Let's go through the metrics related to No Trust Verify, you will find on this page the evolution of the packets processed by our public mixnodes during the month of October.

NTV1 mixnode (APxUbCmGp4K9qDzvwVADJFNu8S3JV1AJBw7q6bS5KN9E)

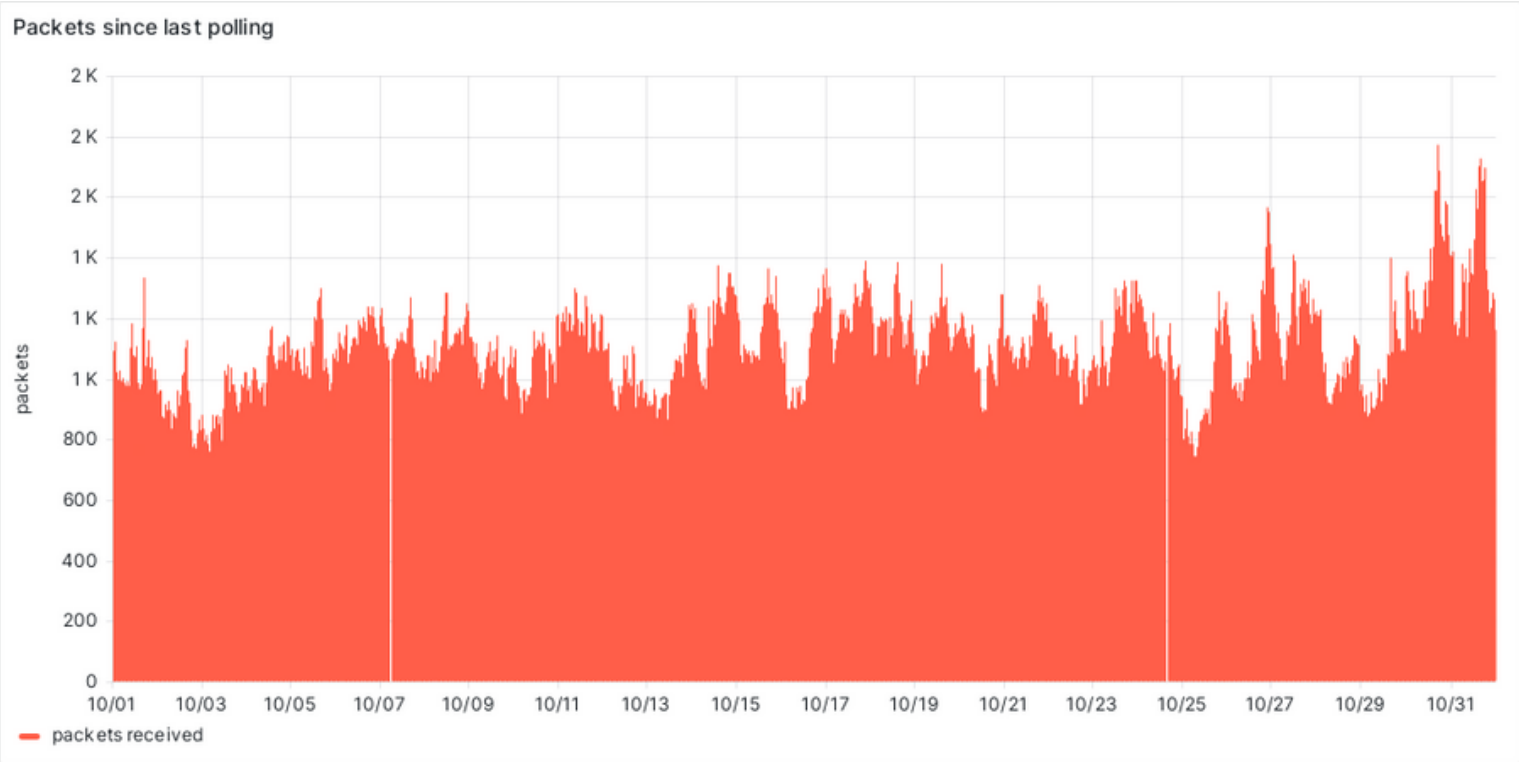


NTV3 mixnode (ESPa5xnwZ7BebSX9SGmUbeYgNtkUeJo8PtbBx7JhzEHA)

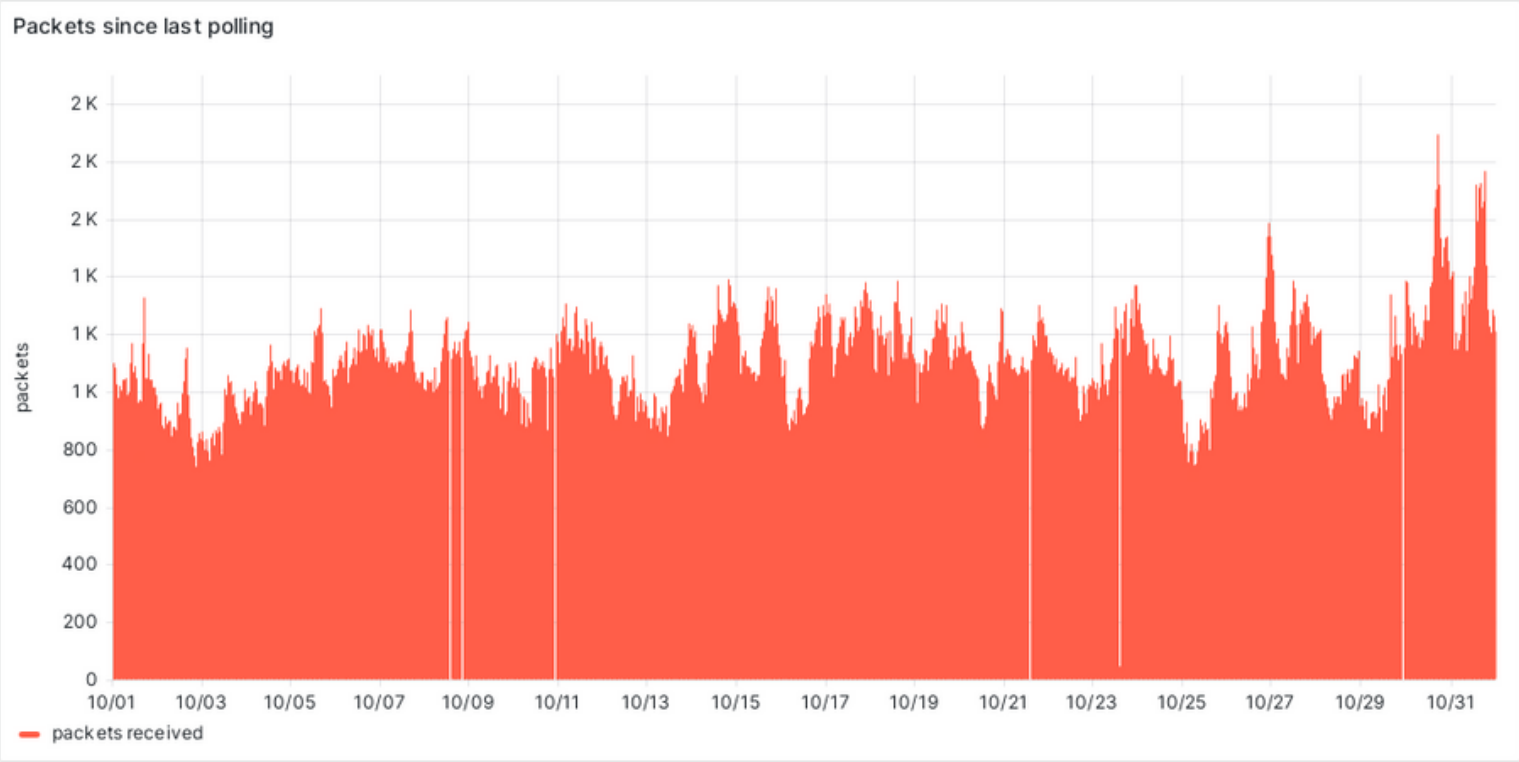


NTV METRICS

NTV5 mixnode (A6k1q6EPptrGEFnziKkma2pP5r2JW2yp6C7voCWWc1kn)

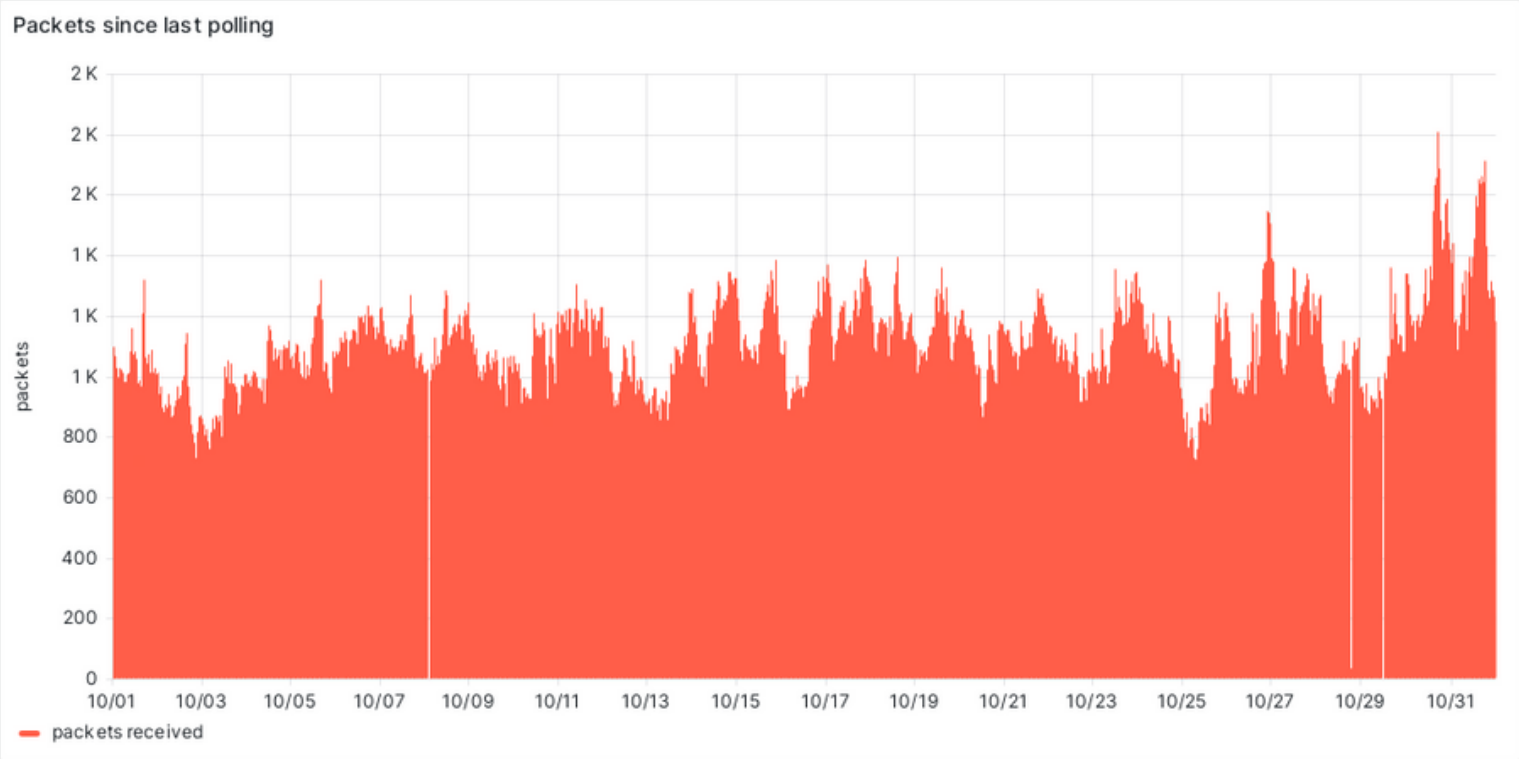


NTV10 mixnode (6rxjTrakj5oN3RHtvnkXN6j1R2zFShTgXMF4xX2d6QC2)

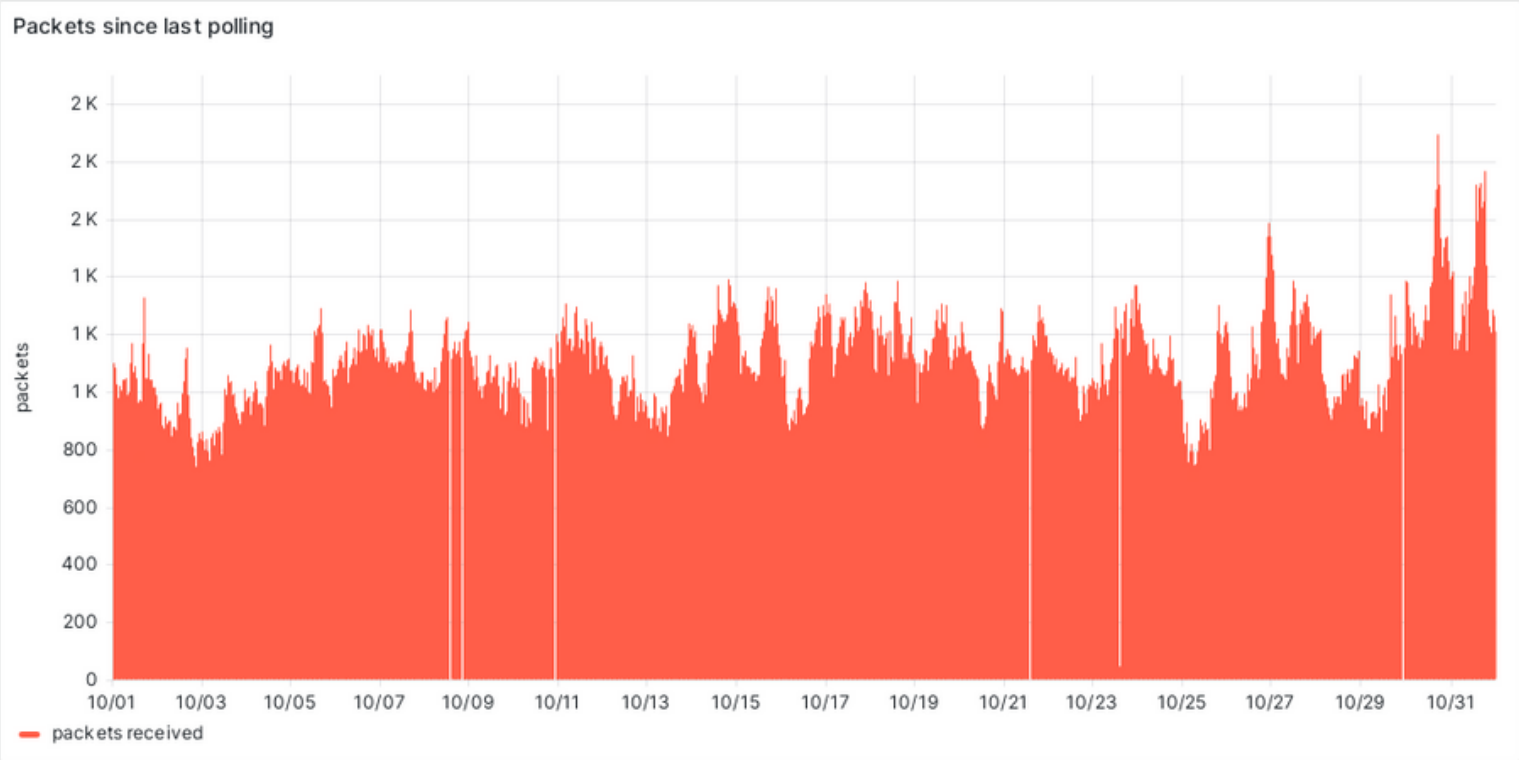


NTV METRICS

NTV11 mixnode (4W1XfYwzDCoEjyp3KEd1GY5bCJoxK7LGTKgFqBei1xCh)



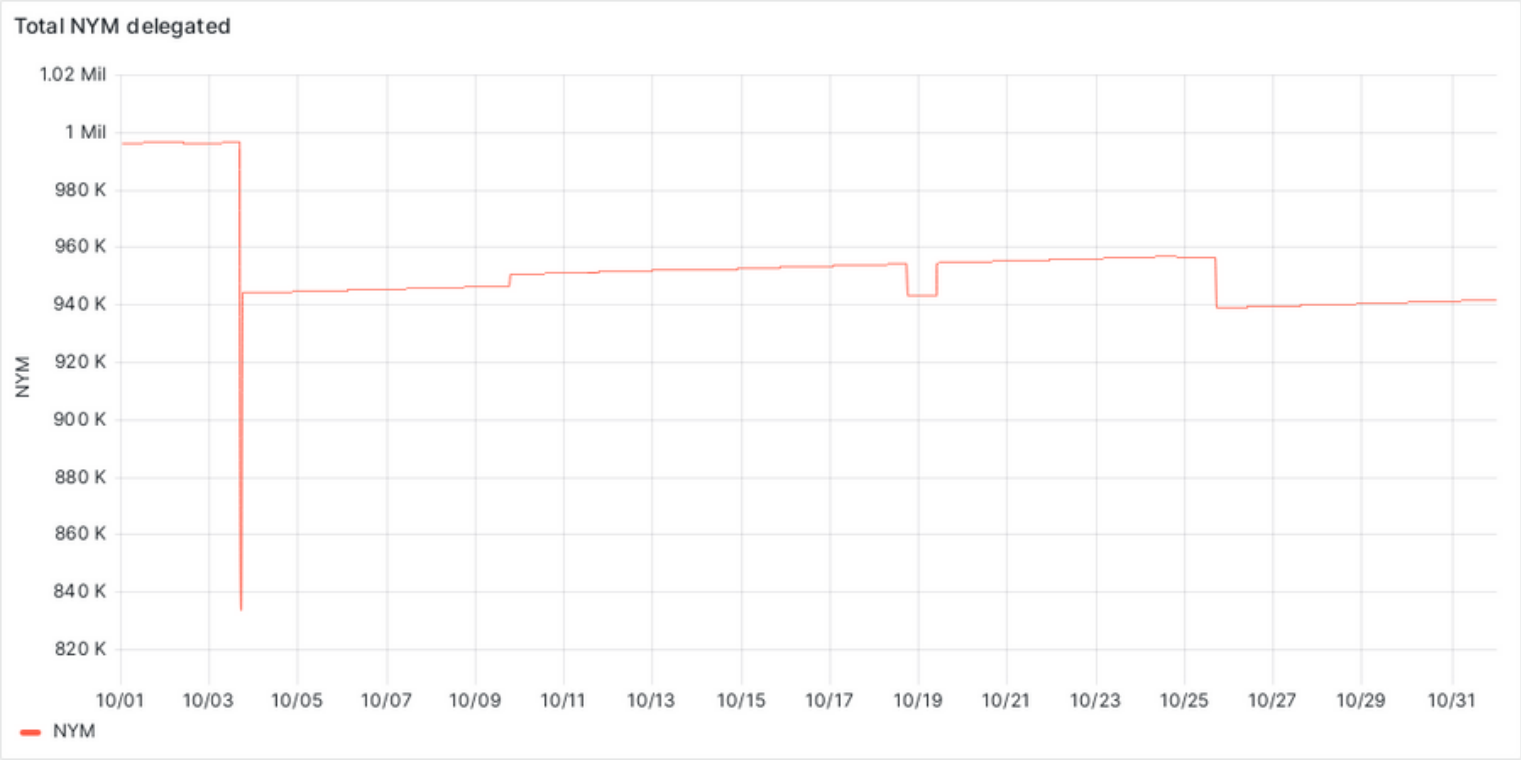
NTV14 mixnode (6P6hShyfbki1CTUDb5QzoXkqsHDP95mf3b5dJNCKBfio)



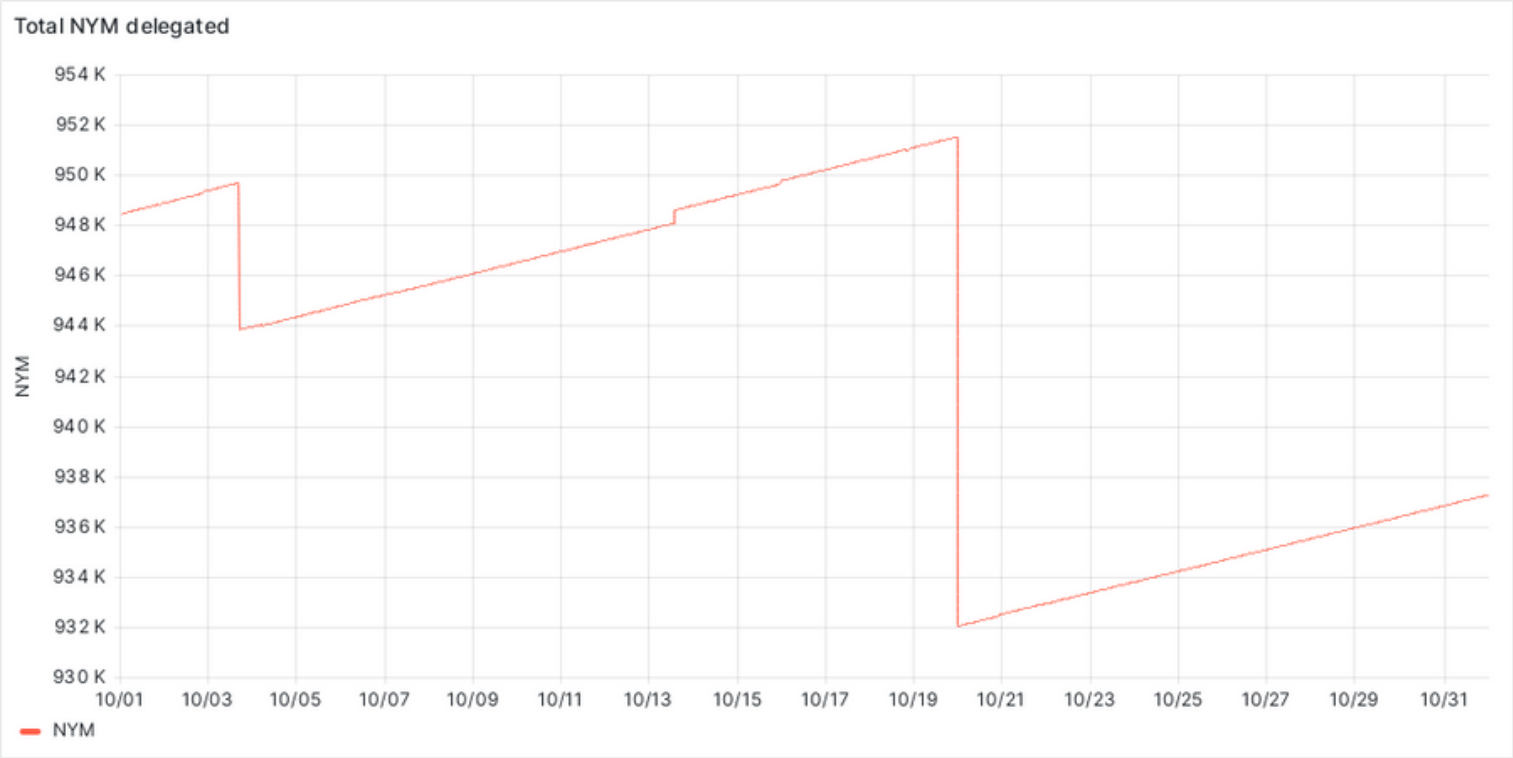
NTV METRICS

We then find, for the same period, the evolution of delegations made on our public mixnodes. With the actual stake saturation, the APY rate is now on average 16.74%.

NTV1 mixnode (APxUbCmGp4K9qDzvwVADJFNu8S3JV1AJBw7q6bS5KN9E)

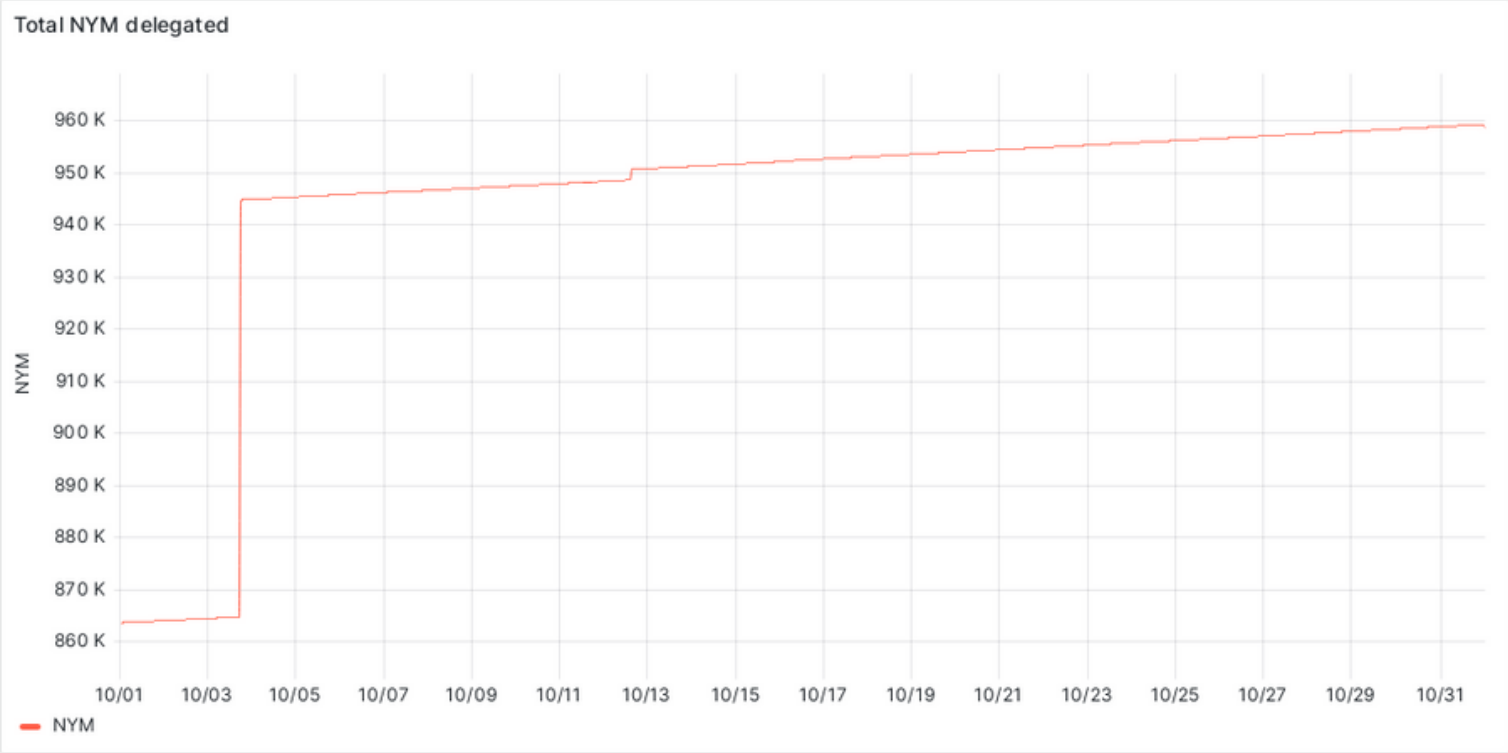


NTV3 mixnode (ESPa5xnwZ7BebSX9SGmUbeYgNtkUeJo8PtbBx7JhzEHA)

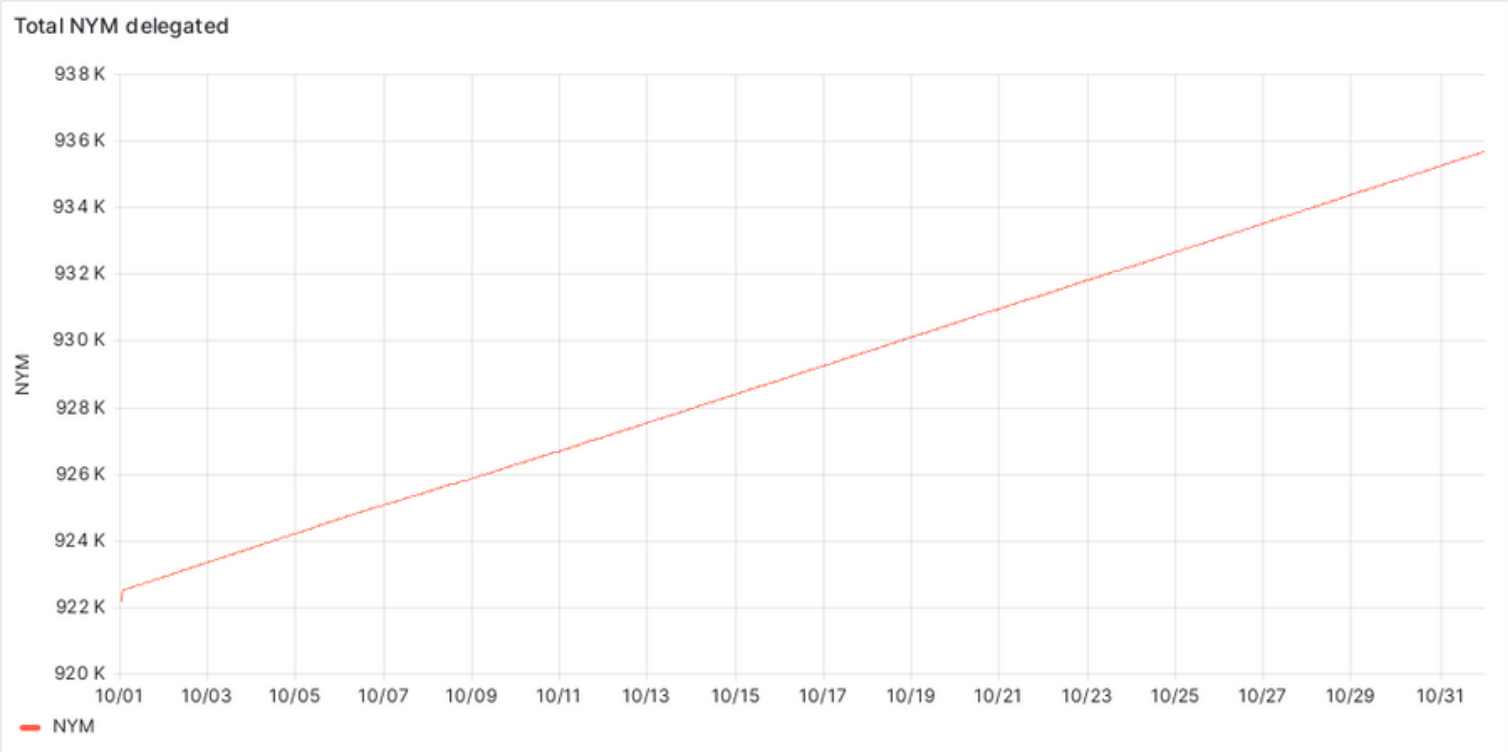


NTV METRICS

NTV5 mixnode (A6k1q6EPptrGEFnziKkma2pP5r2JW2yp6C7voCWWc1kn)

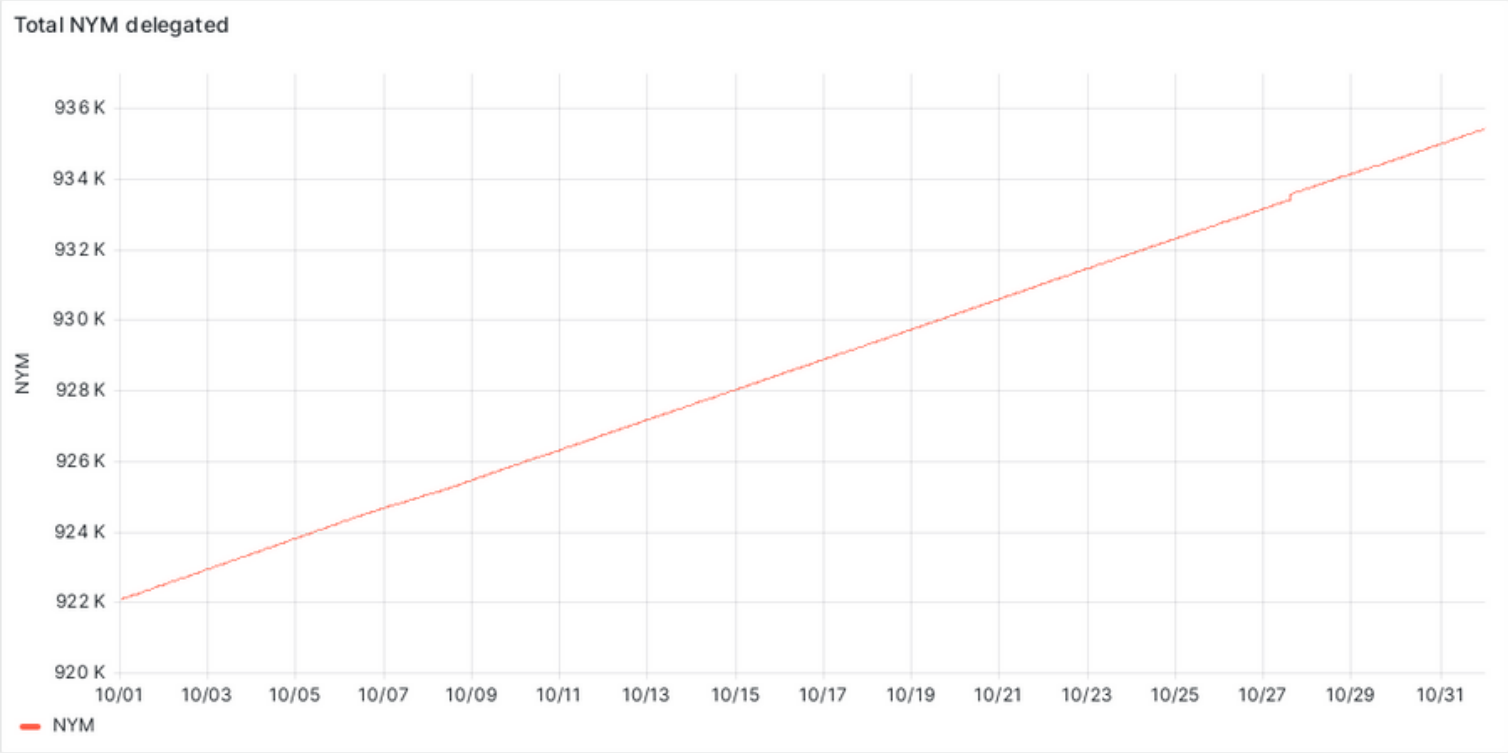


NTV10 mixnode (6rxjTrakj5oN3RHtvnkXN6j1R2zFShTgXMF4xX2d6QC2)

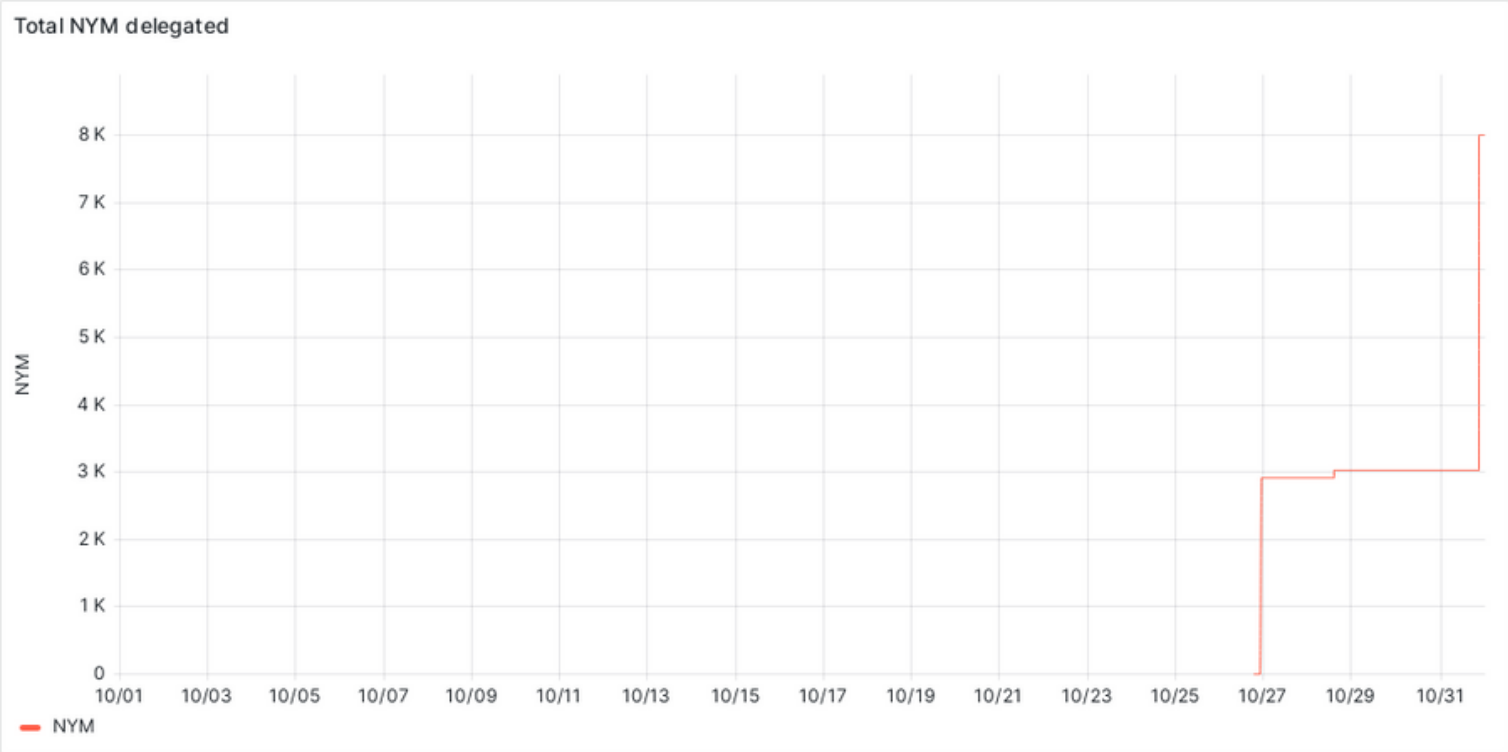


NTV METRICS

NTV11 mixnode (4W1XfYwzDCoEjyp3KEd1GY5bCJoxK7LGTKgFqBei1xCh)



NTV14 mixnode (6P6hShyfbki1CTUDb5QzoXkqsHDP95mf3b5dJNCKBfio)



The No Trust Verify team would like to thank you for your trust and remains at your disposal for any further information.

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