



# Nix, State of the Union

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With Matthias, Guillaume, Ryan, Jonas,

# Welcome to NixCon 2023!



- Organisers
- The on the ground Darmstadt team! (Andi, Hexa, Megfault, Braack, Ryan)
- Over 30 volunteers
- 230 live
- Hundreds with us virtually
- 3 Nix packed days

Eelco



Ron

# Nix Financials & Funding 2023



## Profit

- NixCon 2023 : €37,743.73
- Donations : €24,525.08
- NGIO Participation : €46,777.61
- Documentation Project : €12,920.94



## Loss

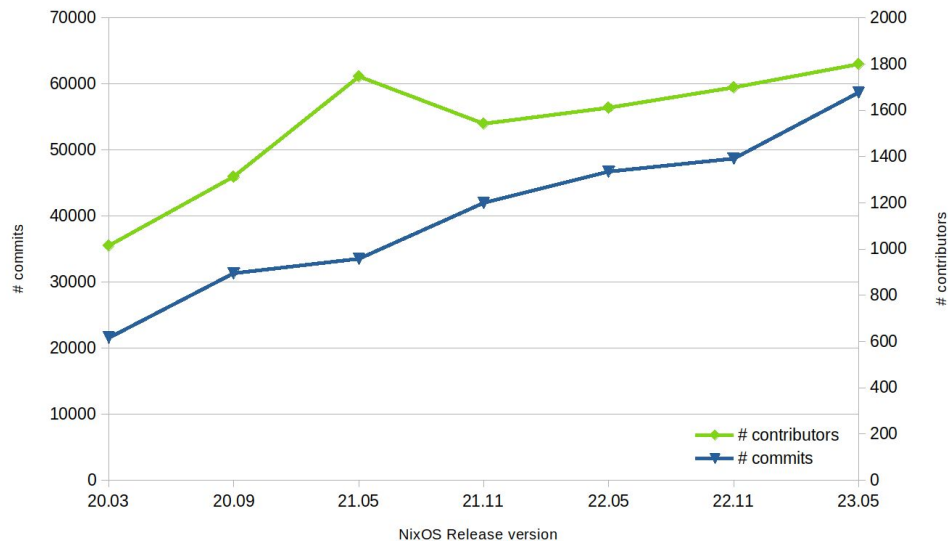
- Nix Grant Program : €3,706.97
- Hosting : €11,750.82
- Summer of Nix : €9,133.20
- Accountants : €1,512.50
- Future: Docs team, NGIO, NixCon

**Costs Not on Balance Sheet** - Storage/Buckets (AWS), Fastly, Discourse (Flying Circus), Equinix Metal

# Nix Data - Growth!



The Nix community keeps growing 



# Nix Data - Growth!



Overview



Star

13.1k



5,816 Active pull requests



4,957

Merged pull requests



859

Open pull requests



Star

9.7k

Overview

4,622 Active pull requests



3,834

Merged pull requests



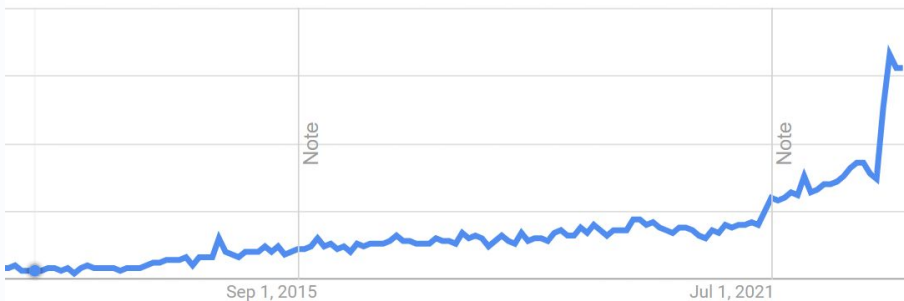
788

Open pull requests

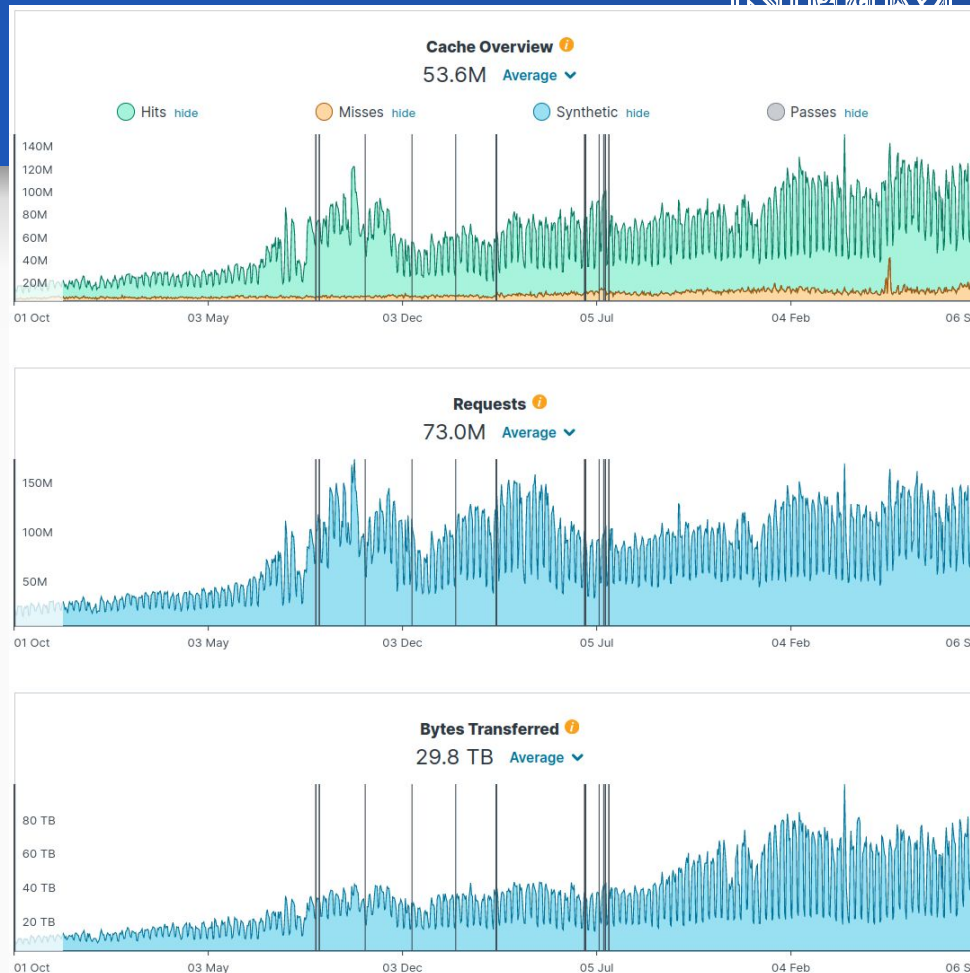
May 2022

# Nix Data - Growth!

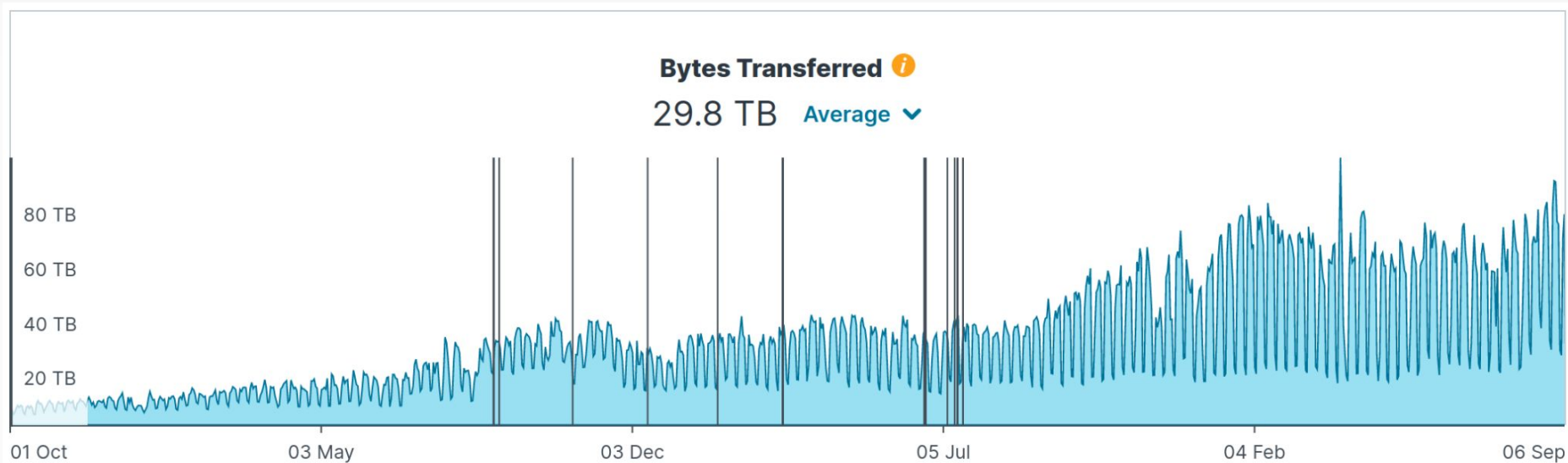
Interest increasing since 2016



Google Trends for "Nixpkgs"



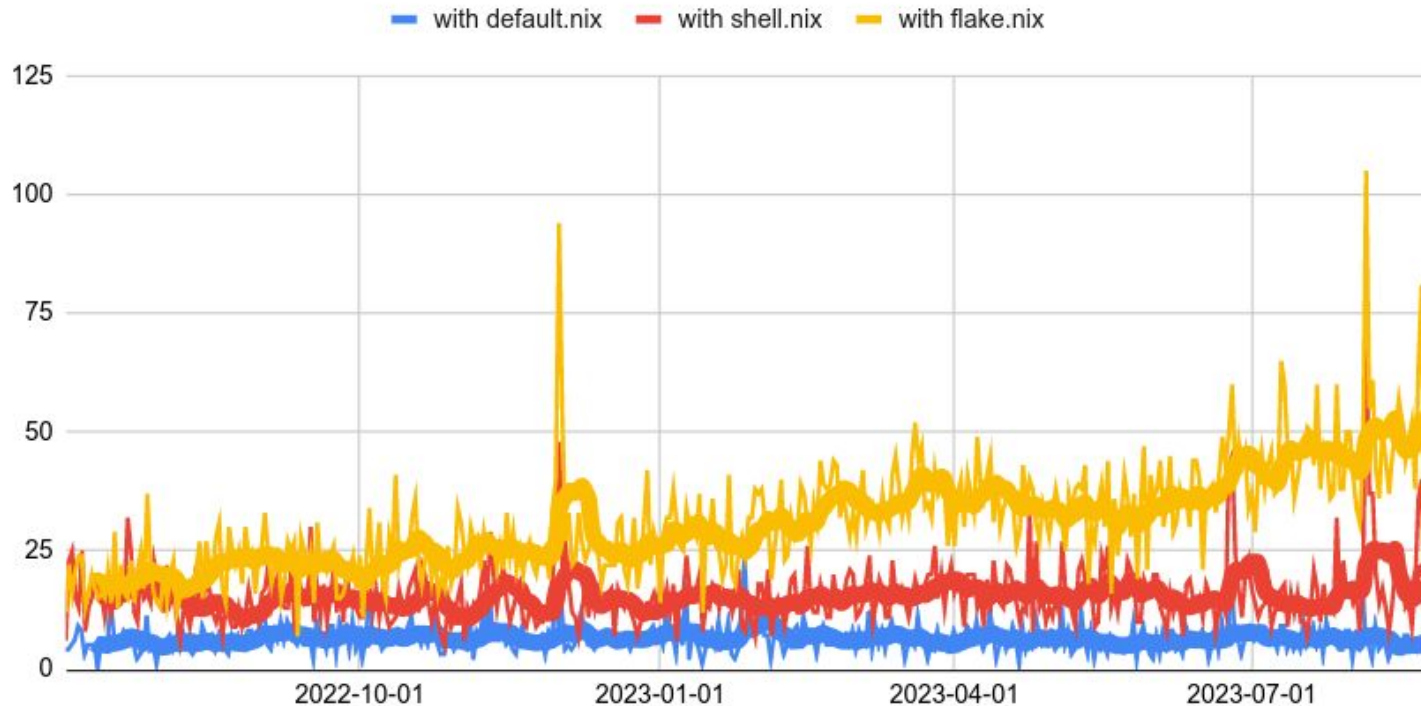
# cache.nixos.org traffic since Oct 2020



# Nix-based projects on GitHub



New projects using Nix on GitHub





# The NixOS Foundation Responsibility



**Keeping the lights on & Helping the light  
shine brighter**

# Foundation - A Look Back



S3 grant with AWS

Building up relationships - technical, financial, marketing/events

Grant and event funding program

Expanding NGI program and first program manager hire

Docs team funding and structure

STF funding

Financial reports

20 years of nix!

# Foundation - A Look Forward



Empowering teams and individuals

- To make decisions
- To receive funding/grants

Research Nix Hiring

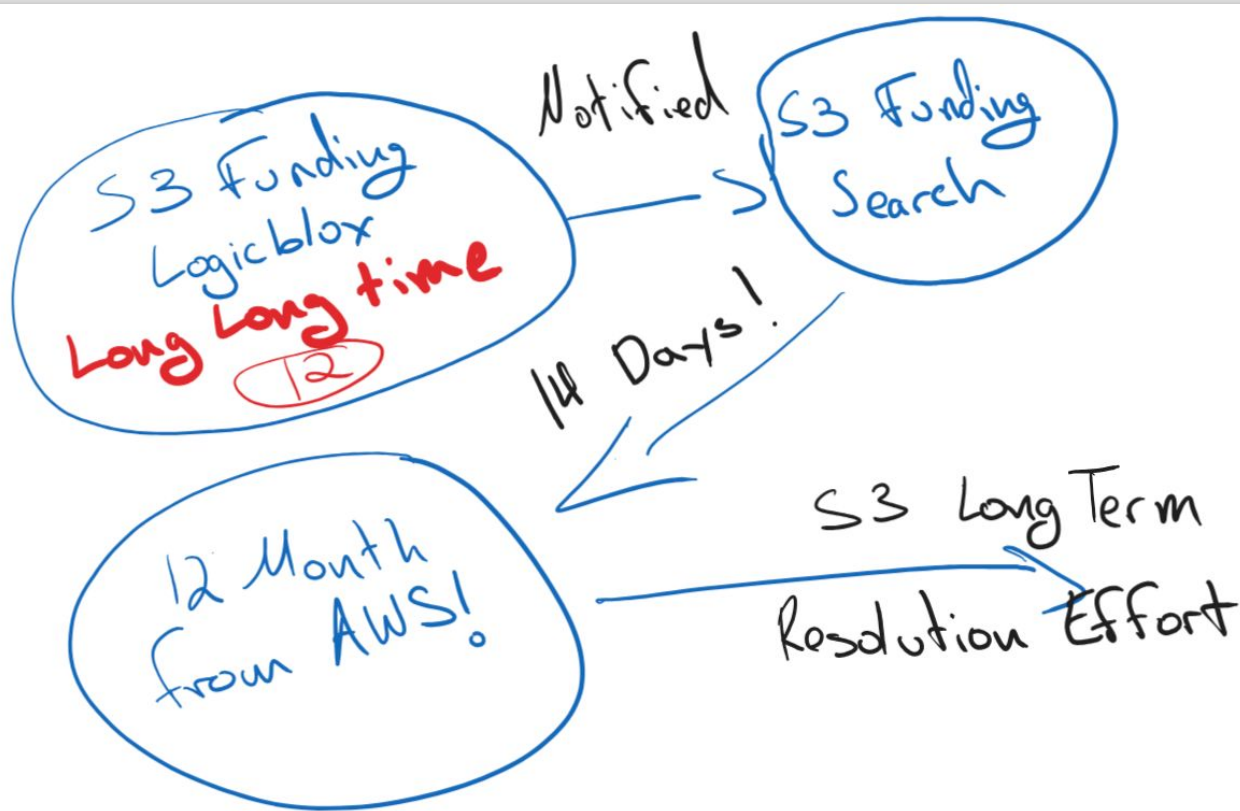
Increasing fundraising and Nix budget

Nix Infra/S3

Board charter and rotation

Work on top community blockers! - Nix Governance Efforts

# Nix S3 & CTA



# cache.nixos.org stats



- **346.5 TiB** Infrequent Access, **114.1 TiB** Standard
- **717M** objects
- **68 TiB** AWS <-> Fastly traffic in August
- **125 TiB** Fastly traffic on 2023-09-04

# Summer of Nix and Grant Funding



Nix is such an important tool. How is it possible that there is basically no (public) funding flowing into it?

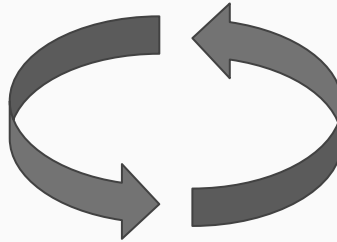
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This is where I started 5 years ago.

# Summer of Nix and Grant Funding



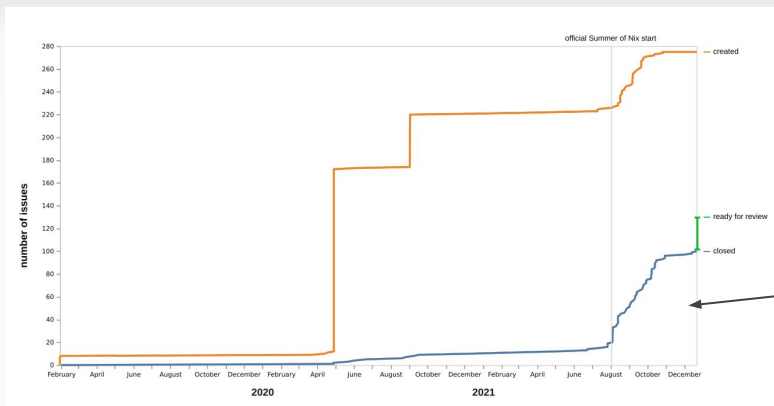
We need to attract funding



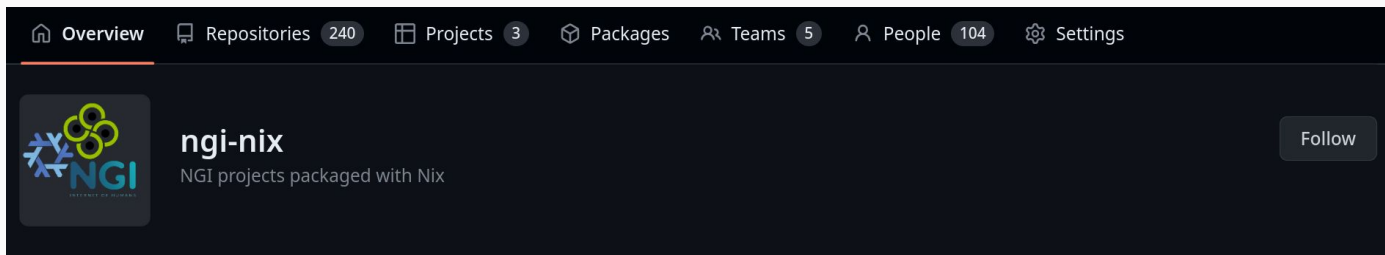
**And then we need to use that funding efficiently**

(Summer of Nix started here and we are working hard on this end with many initiatives. We got the cycle rolling!)

# Summer of Nix and Grant Funding



Summer of Nix relaunched the whole investment cycle. Now 240 repos in the organisation.





# Summer of Nix and Grant Funding



Now 3rd year of Summer of Nix.

New organizers.

Mob programming.

Monorepo (“ngipkgs”)

Each year is different. An experiment with organizational form, how to code, experiment, learn and get things done together. That is the spirit that I hope to preserve. It’s a privilege to be able to do this.

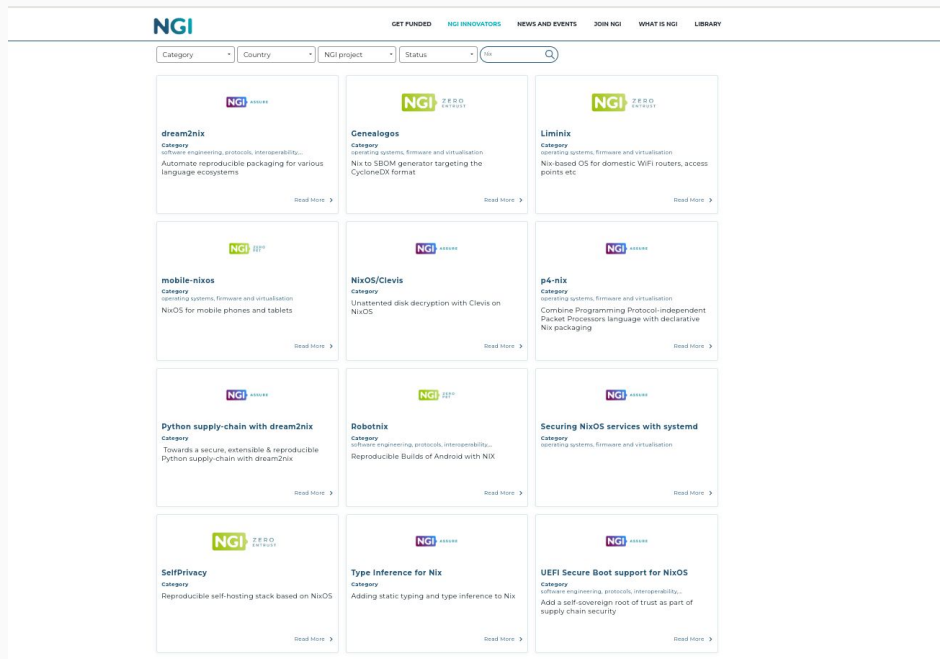
(My opinion: way more interesting and rewarding Summer of Code than any traditional mentor/mentee setup—a bit anarchic like Nix 😊)

# Summer of Nix and Grant Funding



- Influential funding organizations know about Nix and understand its potential
- More funding for Summer of Nix has become available
- We managed to get a paid (part-time) coordinator for these grant investments, Valentin 🎉
- We are establishing processes and structures so that funding can be used efficiently
- Larger grants for targeted investments are on the horizon as well

12 projects currently listed on the European Commission's NGI program page



# Why public funding?



Nix and FOSS are a perfect match! Nix can handle the enormous diversity of a huge, organic open source ecosystem exactly as envisioned by the EU's NGI program.

We have the opportunity to make Nix **the** main platform for this ecosystem and simplify collaboration of thousands of small contributors sharing and building on top of each others code.

# Nix Moderation Team



Mission: If you don't notice us, we succeeded.

- Domen Kozar (domenkozar)
- Graham Christensen (grahamc)
- Jörg Thalheim (mic92)
- Jonas Chevalier (zimbatm)
- Rok Garbas (garbas)
- Ryan Mulligan (ryantm)
- Alyssa Ross (alyssais) - New member!
- Martin Weinelt (mweinelt / hexa) - New member!

Home: <https://github.com/NixOS/moderation>

Contact: #moderation:nixos.org , [community@nixos.org](mailto:community@nixos.org)

Some things that happened this year:

- Nix community keeps being awesome
- Converted <https://github.com/NixOS/moderation> into our home
- We now manage the room onboarding into the space
- Conversations on how to handle moderation.
- Please get in touch with us!

# Nix Infra Team



Mission: Support the build infrastructure

Members:

- Eelco Dolstra (edolstra)
- Graham Christensen (grahamc)
- Vladimír Čunát (vcunat)
- Jonas Chevalier (zimbatm)
- Martin Weinelt (mweinelt) - New member!
- Julien Malka (JulienMalka) - New member!
- Cole Helbling (cole-h) - New member!

Home: <https://github.com/nixos/nixos-org-configurations>

Channel: #infra:nixos.org

Achievements:

- Hydra is still alive (grahamc, vcunat)
- Ofborg is still alive (cole-h)
- Deployed first-time-contribution-tagger (Julien)

Next year:

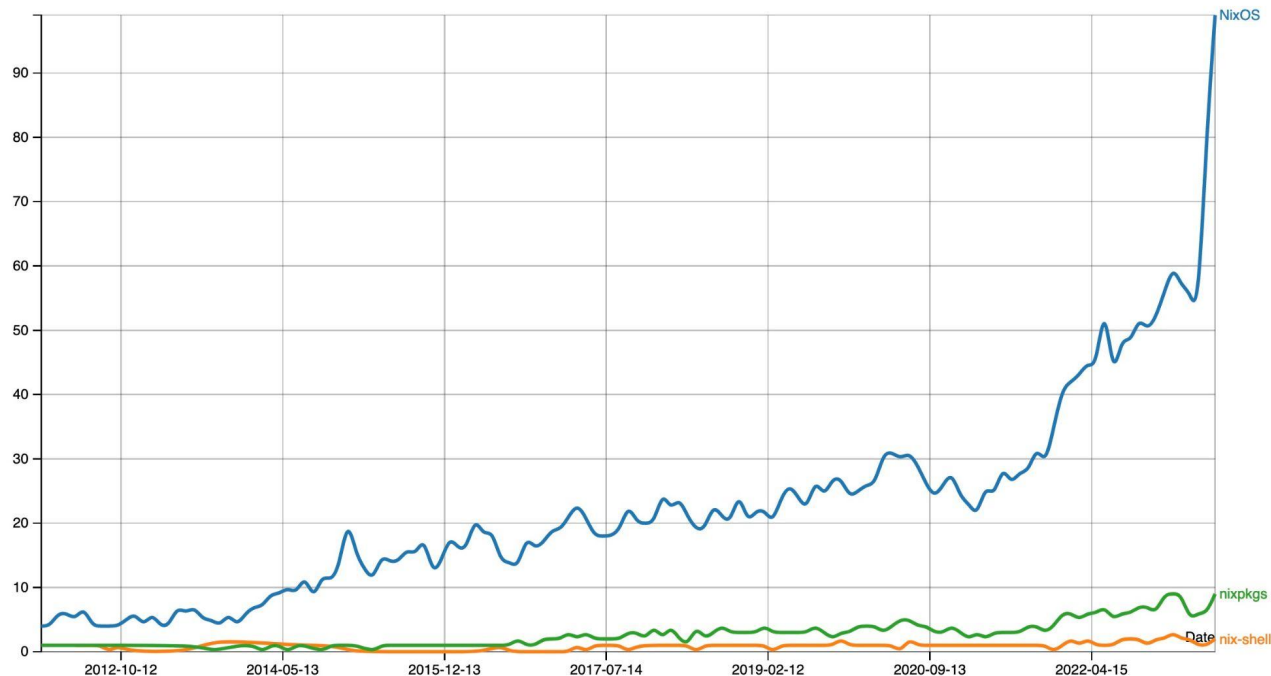
- Expand the team
- S3 bucket
- Self-hosting

# Nix Marketing Team



## Google Trends

Note: data starts in 2012 because there is a huge unexplainable spike starting when the data begins in 2004 that seems suspect / incorrect.



# Survey Recap



**47**  
questions

**~2500**  
answers  
↗15%

**67%**  
AAR

# Survey Recap



Nix users  
92%

Nix users  
92%

Non-Nix users 8%



# Survey Recap




Nix/NixOS is **loved** ❤️

 **declarative** configuration

 **atomic** & reproducible

Nix/NixOS is **rough** 😞

 steep **learning curve** at every step

 needs more/better **documentation**

 no good out-of-the-box **developer experience**

# Survey Recap



*If Nix didn't exist, what would you use instead?*

docker (200)

pacman (52)

guix (273)

debian (106)

arch (247)

fedora (70)

sadness/misery (7)

alcohol (6)

"become a goat herder" (1)

# Survey Recap



Soon  $\Rightarrow$  publication of **results**

Next year  $\Rightarrow$  **again** and **better** !

# Release Management



NixOS 23.11 Tapir will be landing in November

## **Release Manager**

One who will set the next release for success, working with all stakeholders in all subsystems in Nixpkgs.

## **Release Editor**

One who will set the next release documentation, especially release notes, for success.

<https://matrix.to/#/#nixos-release-management:nixos.org>

The Nix Coin  
(physical Nix Pogs)





Darmstadt 2023

September 08 – 10

open  
invention  
network.

**rweag**

A Modus Create Company



**Determinate  
Systems**



**UMTIDE**



**Cachix**

WORLDQUANT®



**Hercules CI**

Functional CI/CD



**WDZ**

**garnix**



**HELSINKI  
SYSTEMS**

Network & IT-Solutions

**PDT PARTNERS**



# Thank you!

