[DEPRECATED]The Mother of ALL DEMO DAYS

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Find new updated copy in Demo day folder here

Abstract

The PL Engineering and Research (EngRes) Mother of All Demo Days occurs once every month. Teams across IPFS, Filecoin, libp2p, and beyond get together to share their progress and projects. Demo Day is an exciting event where we come together to celebrate and share our progress, achievements, and knowledge. It's a platform for showcasing the amazing work we've accomplished and the milestones we've reached.

Why Demo Day?

We use these sessions for:

- 🚀 Share progress made: These can be done in the format of a live demo, a showcase of anything shipped (e.g. papers, architecture docs, etc) or any other kind of achievement that feels worth sharing with the group
- 🌱 Foster cross-pollination: Where folks get to learn about what others are doing and ask questions on how they did it. It's a chance to ask questions, gain insights, and explore new ideas that can inspire and enhance our own projects.
- ⏰ Maintain project pace: Demo Days can be used as important goalposts for delivering all the sprints results on time. They help us stay focused, motivated, and ensure we're making steady progress towards our objectives.

Sign up in advance

Participation in Demo Day is not mandatory, but we highly encourage you to join and showcase🌟 your work! Last minute registrations will likely be accommodated, but it is very helpful to know who is going to be presenting. Sign up below!

Feedback

We are always looking for ways to improve the Demo Days! Pls. Reach out to us if you have any comments, questions, or feedback to share with us by emailing starfleet-admin@protocol.ai

Next Demo Day

Please post your questions on Slack so that they can be answered Async! If we have time, we will bring them into the conversation. **If you are presenting, please turn on your video during your demo.**

Template
- LAB/TEAM
    - PRESENTER
    - TITLE
    - DESCRIPTION OF THE DEMO
    - LENGTH (5 or 10 mins, anything longer requires a separate talk event)

Want to Record your Demo and have it presented?
No worries! Just add it in, and either the host or your designated team member can play it live for us!

Up NEXT Aug 17, 2023

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Previous Demo Days

July - Skipped

Jun 15, 2023 | (Recording)

- Magna - PL Company -
  - Jackson Weinreb - Head of Business Development
  - Title: Magna: Token Vesting on Autopilot
  - This demo will walk through how you can leverage Magna to manage your token cap table as well as automate on-chain token vesting. Magna is building token distribution software that makes it easier for protocols, decentralized autonomous organizations (DAO) and crypto funds to send and receive tokens, a process that has so far lacked automation and has been prone to error.
  - 7-10 minutes

    Additional Info: Magna - Website | Twitter
    Contact Info: TG: @jweinreb / jackson@magna.so

- Sentinel
  - Po-Chun Chang
  - Explore Filecoin Data with BigQuery
  - In this demo we will demonstrate how to query the public Filecoin dataset the team has published in BigQuery and visualize results in google spreadsheets.
  - 5 minutes
- drand
  - Patrick McClurg
  - pastelock
  - A timelock encrypted social media application (of sorts)
  - 5 min
  - Other Materials/Links:
    - https://pastelock.drand.love
    - https://drand.love
    - https://timevault.drand.love
    - Other timelock use cases include: Responsible Disclosure; Electronic Wills; Escrow as a Service; Auctions; Lotteries; Electronic Voting; Social Recovery Wallets, etc.

May 18, 2023 (recording)

- Cryptosat
    - Amir Benvenisti - Product Manager
    - Cryptosim: the Cryptosat simulator.
      In this demo we'll present our sandbox simulator, called Cryptosim. Cryptosim enables developers and potential users to understand what Cryptosat solutions are all about, and what kind of APIs they can expect from our actual satellites. The interactive tutorial walks through the concepts and shows how to implement your own use-cases on top of our APIs.
    - 10min
- Bedrock/IPNI
    - Ivan Schasny
    - IPNI: User Privacy at Scale
    - In this demo I'd like to briefly go through the recent enhancements that we've made to IPNI that aim to better preserve user privacy on the IPFS and Filecoin networks. I'll also briefly tell about our experience with rolling it out to https://cid.contact (the largest IPNI deployment to date). And of course I'll demo a privacy preserving lookup to https://cid.contact.
    - 8min
- ConsensusLab
    - Akosh Farkash
    - Fendermint
    - Quick overview of the project and a 5 minute demo of interacting with FEVM using the Fendermint CLI and a script talking to the Tendermint RPC.
    - 10 min
- Bedrock
    - Brenda Lee
    - Intro to Lassie: a new retrieval client for IPFS and Filecoin
    - Quick overview of Lassie, how it works today, and a quick demo of how to use it and retrieve data from IPFS and/or Filecoin. A few resources:
        - Get started: https://docs.filecoin.io/basics/how-retrieval-works/basic-retrieval/
        - Github: https://github.com/filecoin-project/lassie
        - #retrieval-help on Filecoin slack
    - 5 min

Mar 16, 2023 (recording)

- Bedrock
  - DVD
  - Dogfood Treats
  - Learn about dogfooding with a group exercise
  - 10 mins
- Compute Over Data - Waterlily (Lilypad & Bacalhau)
  - @wesfloyd
  - Bridging On Chain Payments and Off Chain Compute: Ethical Art, Generative AI, & Style Transfer
  - Overview of Bacalhau, FVM, Lilypad bridge, and Waterlily AI art project
  - 5 mins
- ConsensusLab
  - Alfonso de la Rocha
  - Running an IPC subnet
  - Describe the new architecture of IPC and showcase the deployment of a new subnet
  - 10 min

Feb 16, 2023 (recording)

- IP Stewards (Kubo)
  - Hugo Valtier
  - RAPIDE, 100x throughput improvement
  - Live demo of new experimental RAPIDE client, how Kubo is working on multiplying downloads throughput by 100x+.
  - 5 mins
- Lotus
  - Łukasz Magiera
  - RIBS, Filecoin-native blockstore
  - Live demo of onboarding data to filecoin through Kubo CLI with Ribs
  - 10 min
- drand
  - Yolan Romailler
  - drand Cryptography and Storage Optimizations
  - Latest developments in drand which make cryptography more efficient and optimizes the storage of beacons.
  - 10 mins

15 Dec 2022 | (recording)

- ProbeLab
  - Guillaume Michel
  - Effectiveness of Bitswap Discovery Process
  - IPFS requests are configured to give a head start of 1 second to the Bitswap discovery process over the DHT lookup. We measured the effectiveness of the Bitswap discovery process and the block fetch latency in order to understand if this magic constant of 1 second is appropriate.
  - 10 mins
- ProbeLab
  - Dennis Trautwein
  - Un-Plugging the Hydra-Booster DB
  - On Dec 1st we unplugged the common DynamoDB from PL's Hydra-Booster fleet to save significant cost. We estimated the performance impact beforehand and were measuring it throughout the process. In this demo we'll share the results and our conclusions.
  - 5 mins
- ProbeLab
  - Dennis Trautwein
  - NAT Hole Punching Measurment Campaign
  - We're running a NAT Hole Punching measurement campaign throughout December. Since we're half way through, we want to share some stats and encourage others to participate in the second half.
  - 5 mins
- CryptoEconLab
  - Maria Silva
  - MechaFIL - a python model for the Filecoin Economy
  - We recently open-sourced a python package to model the main component of Filecoin's circulating supply. In the demo, we will show how to use the model, by following this notebook.
  - 10 mins

1 Dec 2022 (recording)

- ConsensusLab
  - Alfonso de la Rocha
  - Spacenet
  - Sharing the launch of a new Filecoin testnet running an alternative consensus (Mir-Trantor), and what will become the future IPC testnet.

    - 10 mins
- BedRock
    - Will Scott
    - Debugging Car Files
    - A newer piece of car file tooling
    - 2 min
- ConsensusLab
    - Willes Lau (pre-recorded)
    - IPC FVM actors implementation.
    - Demo interacting with IPC as user-defined actors targeting FVM.
    - 10 mins
- Lotus/Actor
    - Zenground0
    - FEVM compatible contracts to work as a deal client
    - Sharing phase 1 of the “enabling data dao use case workshop” - a client contract that interacts with the filecoin builtin storage market actor
    - 10min

6 Oct 2022 (recording)

- *(Description of Demo: Please input 2-3 sentences about your demo)*
- Lotus
    - Łukasz Magiera
    - Lotus/IPFS Data Explorer
    - A tool to find and explore ipfs/ipld data stored on filecoin and ipfs
    - 10min
- ResDev - ConsensusLab
    - Willes Lau
    - uptimeChecker — an FVM actor and service for cluster management
    - DESCRIPTION OF THE DEMO
    - 10 mins (RECORDED due to timezone + live Q&A with Alfonso de la Rocha)
- ResDev - Cryptonet
    - Irene
    - Web3.storage bounty
    - Web3.storage bounty: this is the first demo by cryptonet about the new app that allows to store files in Filecoin and IPFS directly from any EVM-compatible blockchain. This is our first example of how bounty contracts that be used by clients to store data. Test it at https://web3bounty.app
    - LENGTH: 5 mins
- ResDev - Cryptonet
    - Irene
    - Retrieval Pinning

    - Retrieval pinning: a new short demo about the retrieval pinning protocol. With this we are able to add a “retrievability assurance” for the storage service provided by a decentralized storage network. Read more and try it yourself (both for clients and providers!) here: https://retriev.org
    - LENGTH: 10 mins
- ProbeLab
    - Dennis Trautwein
    - The IPFS Network from the Hydras’ point of view
    - The Hydra-Boosters are a centralized component to speed-up content routing. Since it covers > 97% of the DHT hash space it gives us vantage into who stores where how many CIDs for how long. In this quick Demo we’ll briefly present the infrastructure to analyze the data and show some insights.
    - LENGTH 5 mins
- FilDev - FVM
    - Zak Ayesh
    - Deploying to FEVM with Hardhat
    - We will use the EVM developer tool “Hardhat” to deploy a simple token contract to FEVM on the Wallaby testnet, and interact with that contract
    - 10 min

1 Sept 2022 (recording)

Description of the Demo - Please add a couple of sentences about what your demo is about

- ConsensusLab
    - Matej Pavlovic
    - Reconfigurable SMR with Mir
    - The Mir library for distributed protocol implementation now supports reconfigurable SMR - new nodes can join the system at runtime. I will showcase this functionality using a demo chat application.
    - 10 mins
    - [Slides]
- ConsensusLab
    - Denis Kolegov
    - Dynamically adding new nodes to Eudico with Mir
    - The Mir functionality presented just before, applied to the Eudico filecoin client
    - 5 mins
- Cryptonet
    - Nicolas Gailly
    - Medusa
    - Short overview of the Medusa project
    - 10 mins
- ProbeLab (Recorded)
    - Yiannis Psaras
    - Provider Record Liveness - Final Results

        - Study that dives deep into the properties of Provider Records on the IPFS DHT and answers questions such as “Is the current replication factor for Provider Records enough to keep the content live?”
        - 10 mins
        - [Project Doc] [Final Report] [slides] [recording (IPFS CID)] [recording (gdrive)

4 Aug 2022 (recording)

- Drand
    - Yolan Romailler & Patrick McClurg
    - Meet `tlock`, our new timelock Go library
    - A quick overview of what is timelock, what kind of cool stuff we can do with it, and then a demo of our CLI tool and Golang library achieving it using drand and the League of Entropy.
    - 10 min
- NetOps
    - Travis Person
    - Filecoin Chain Snapshots
    - An overview of Filecoin chain snapshots and the new snapshot service we are running for mainnet and calibration network.
    - 10 mins
- ConsensusLab
    - Andrei Tonkikh
    - Taking pseudocode to an implementation with Mir framework
    - A brief introduction to Mir and how to transfer protocols from pseudocode in papers to working prototypes in Go and beyond.
    - 10 mins
- ConsensusLab
    - Sergey Fedorov
    - Reproducible integration testing in Mir with simulated time
    - Introduction to and demonstration of reproducible integration testing in Mir with simulated time.
    - 10 mins

7 Jul 2022 (recording)

- ConsensusLab
    - Alfonso de la Rocha
    - First draft of HC spec
    - 5m
- Fil-infra
    - Cory Schwartz

    - IPFs operator demo (ipfs cluster on k8s)
    - 10m
- ProbeLab
    - Guillaume Michel
    - DHT Routing Table Health results [slides]
    - 10m

2 Jun 2022 (recording)

- drand
  Mario Camou Yolan Romailler Yiannis Psaras
  Monitoring of drand ceremonies [slides] [Recording]
  10mins
- ConsensusLab (prerecorded with live Q&A)
  Denis Kolegov Matej Pavlovic
  Crash failures in Mir and its integration with Eudico
  [Slides] [Video]
- ProbeLab
  Yiannis Psaras
  DHT Provider Record Liveness - Initial Results
    - [RFM] [Report] [Slides]

  10 mins

5 May 2022 (recording)

- ConsensusLab
  Denis Kolegov Alfonso de la Rocha Matej Pavlovic
  Benchmarking Eudico consensus
  10 mins
- ~~NetOps~~
  ~~thattommyhall~~
  ~~Build a georedundant ipfs gateway in 10 minutes | Punching Holes In Clouds~~
  ~~10 mins (ill pre-record, dont trust my zoom or my hands and brain 😁)~~
  (next time gadget, next time)
- IPFS Stewards
  Adin Schmahmann
  WASM IPLD Codecs and ADLs
  10 mins

7 Apr 2022 (recording)

- ConsensusLab
  Sarah Azouvi
  BTC Checkpointing: capstone demo with failure and KVS
  10 mins
- ConsensusLab
  Alfonso de la Rocha Denis Kolegov
  Eudico garden: a devnet for hierarchical consensus, running Tendermint, PoW, and Filecoin root consensus
  10 mins (I may be able to do it in 5min to leave some room to others)
- ConsensusLab
  Matej Pavlovic
  MirBFT
  10 mins
- IPFS stewards
  Petar Maymounkov
  Edelweiss: RPC compiler
  10 mins
- IPFS Stewards
  Adin Schmahmann
  Loading BitTorrent data using go-ipfs (including via HTTP gateways)
  10 mins (could be 5 if short on time)
- libp2p Stewards
  Marten Seemann
  Using WebTransport to connect browsers to the libp2p network
  5 min
- ProbeLab
  Yiannis Psaras
  Optimistic Provide Update
  Ideally 10mins, OK with 5mins, OK to leave for next one as I was late to register :)

10 Mar 2022 (recording)

- ConsensusLab
  Sarah Azouvi
  Checkpointing: Checkpointing onto BTC *testnet*
  10 mins
- Bedrock
  Will Scott
  Indexed content retrieval

10 min
- ResNetLab
  Yiannis Psaras
  Measurement Studies Results & Updates
  Collabs physical meeting
  10min
- ConsensusLab
  Alfonso de la Rocha
  Hierarchical Consensus: example of atomic execution between subnets
  10 mins
- LAB/TEAM
  PRESENTER
  TITLE
  LENGTH (5 or 10 mins, anything longer requires a separate talk event)

10 Feb 2022 (recording)

- ConsensusLab
  Alfonso de la Rocha
  Hierarchical Consensus: injecting and releasing funds from subnets
  10 mins
- ConsensusLab
  Denis Kolegov
  Tendermint as a subnet consensus protocol
  10 mins (recorded because time zone)
- CryptonetLab
  nikkolasg@gmail.com
  Scalable DKG with SNARKs
  (10 mn)
- drand
  Yiannis Psaras / Sid Sanyal
  drand new features demo to the LoE
    - Nicolas Gailly slides
    - @zondax slides
    - FAQ doc with 26 questions covering all aspects of new features
    - Demo recording [link]

  (5 min)

13 Jan 2022 (recording)

- Data Systems
  Will Scott
  Indexed partial retrieval
  10 mins

9 Dec 2021

(recording)

- ConsensusLab
  Alfonso de la Rocha
  Hierarchical consensus update: new actor architecture
  10 mins
- Lotus
  Łukasz Magiera
  New lotus retrieval commands / Filecoin data explorer / subsecond retrieval
  10 mins
- Nitro
  Alan Shaw
  ⁂ Web3.Storage drand relay - randomness stored on IPFS and Filecoin with IPNS tracking the latest! 🤯 slides
  10 mins
- Versioning Workflow
  Marten Seemann
  pre-recorded: https://drive.google.com/file/d/1mKsqaSVh8fY_xLjFcqBCjp4Op7Y9PEsR/view
  5 min
- ResNetLab
  Yiannis Psaras
  Optimistic DHT Provide
  5-10 mins
- ADD YOUR DEMO HERE

Nov 11, 2021 - cancelled

- LAB/TEAM
  PRESENTER
  TITLE
  LENGTH (5 or 10 mins, anything longer requires a separate talk event)

October 14 (recording)

- LAB/TEAM
  PRESENTER
  TITLE
  LENGTH (5 or 10 mins, anything longer requires a separate talk event)
- ConsensusLab
  Alfonso de la Rocha
  Sharding prototype
  10 min
- Data Systems
  Will Scott
  Car create
  3-5 min
- CryptoComputeLab
  Volker Mische
  Finding an Intel OpenCL compiler bug in a few minutes
  10 min
- Infrastructure (if there is time)
  Cory
  Bifrost Gateway Monitor
  5-10 minutes

September 23

(recording)

- ConsensusLab
  Sarah Azouvi
  Project B2: Securing Filecoin by anchoring onto the Bitcoin blockchain
  5 min
- DataSystems
  Andrew Gillis
  Indexing: publishing to a network Index node
  5 min

- Nitro
  Andrew Nesbitt
    - Forage Index: millions of packages on IPFS and Filecoin
    - 5 min

  Peter Rabbitson
    - Dagcargo graphs on Grafana
    - 5min

  Alan Shaw
    - Carbites - CAR file splitting
    - 5 min

  Alan Shaw
    - Golang Web3.Storage client
    - 10 min
- CryptoComputeLab
  Volker Mische
    - GPGPU: Proofs on CUDA
    - 5 min

  Kuba, Nemo, Jake
    - SnapDeals/Lightweight Sector Update
    - 10 min
- ResNetLab
  Yiannis Psaras
    - Measuring IPFS: A (relatively) deep dive into IPFS Network Churn (slides)
    - 10 min

August 19 CANCELED

August 5

- ResNetLab Yiannis Psaras
  Measuring the Web3.0
    - Content Routing performance (continued)
    - ~5-7mins

IPFS Presentation @ IETF Blockchain Gateway Group
        - Internet Draft: https://datatracker.ietf.org/doc/html/draft-hardjono-blockchain-interop-arch-02
        - 2 mins
- CryptoNetLab Luca Nizzardo
  Synthetic PoRep ~5 min
  Lightweight Sector Updates ~5 min

July 22

- CryptoComputeLab
  @porcuquine
  Recursive Computation in SNARKs (with bad pictures)
  10 min
- ResNetLab
  Yiannis Psaras
  Measuring the Web3.0 (slides)
    - Offline vs Online Peers over time
    - IPFS Network Churn Rate
    - IPFS Peers & Filecoin Miners Geolocation distribution
    - Content Routing performance
    - Bitswap Blast

  10-15mins

July 8

- CryptoComputeLab
  @vmx
  Rust and GPUs
  5 mins

- CryptoComputeLab
  @jake
  Finite field implementations
  5 min

- CryptoComputeLab
  @dig
  snarks for the world (5min)

June 24

- Research PM
  Evan
  All the grants!
    - we've approved permissionless grants; any L4 or up researcher can fund some work without approval
    - Great but flexible default grants spectrum to fund basically any kind of research you want; dumb "I didn't read this - tell me what to do" questions are welcome

  10 mins: 5 min pres + questions
- ResNetLab
  Yiannis
  The DI2F Workshop 🎉
  5 mins
- ResNetLab
  Yiannis
  The Network Measurements Project
  5 mins

June 10

- ResNetLab
  Barath
  CNF: Composable Network Functions
  10mins
- ResNetLab
  Yiannis
  ResNetLab on Tour IPLD Module is out!
  < 5mins
- ResNetLab
  Alfonso & Yiannis
  Simple P2P interactions with IPFS through a relay: A simple Hands On Exercise for the DI2F workshop
  10mins (max)
- ResNetLab
  Alfonso
  A first glimpse of an early integration of smart records with the DHT
  < 5 mins

May 27

Recording

- ResNetLab
  Yiannis
  Hard vs Soft DHT Partition for faster content lookup - link to pdf
  5 mins

May 13

Recording

- ResNetLab
  Yiannis
  The DI2F Programme is out! You can find it here.
  5mins
- CryptoNetLab
  Luca
  PoRep Future Directions (doc here)
  3 mins
- ResNetLab
  Alfonso
  Smart-records: Metadata in semantic nodes, Reachable smart tag, and docs in progress.
  5mins
- ResNetLab
  Yiannis
  Libp2p elective module is out!
  3mins
- CryptoComputeLab
  nemo
  Proofs v7.01 release and blog scheduled
  3 mins
- ResNetLab
  Petar
  Visualising Kademlia DHT routing logs (https://github.com/libp2p/py-libp2p-xor)
  5mins
-

Apr 29

Recording

- ResNetLab
  Alfonso
  Chat application using smart-records
  5 min
- ResNetLab
  Yiannis
  Paper: “Towards Decentralised Cloud Storage with IPFS: Opportunities,Challenges, and Future Directions”
  5 min
- CryptoComputeLab
  @nemo
  Proofs v7.0.0 release
  5 min
- CryptoComputeLab
  @jake
  Polynomial remainder theorem
  5 min

Apr 15

Recording

- CryptoEcon
  ZX
  New CryptoEcon page
  1 min
- CryptoNetLab
  Luca
  PoS open problem document recently shipped
  5 min

  Anca
  Vector Commitment Research Directions
  5 min
  slides

  Sarah
  Proof-of-stake with SSLE
  5 min
- ResNetLab
  Alfonso
  Libp2p smart-record protocol
  5 min

Apr 01

Recording

Timekeeper: David Dias

- CryptoNet
  Nicola
  New CryptoNet page
  1 min
- ResNetLab
  Alfonso
  IPFS-FAN: The IPFS Function Addressing Network
  10 mins
- IPP blog post (Snarkpack)
  Nikkolasg
  Blog post draft
  5mn
- ResNetLab
  Yiannis
  Visualising the DHT Walk process
  5 mins
- CryptoCompute
  Porcuquine
  Addition Chains & Parallelism
  5 mins
- ResNetLab
  Barath
  Measuring Churn in the DHT
  5 mins
- CryptoCompute
  Friedel
  New CryptoCompute page
  1 min
- Restructuring the team
  Nicola
  5 mins

Mar 18

Recording

Timekeeper: David Dias

- CryptoNetLab
  Anca
  Rinocchio: SNARKs for Ring Arithmetic
  Abstract https://eprint.iacr.org/2021/322
  10 min
- CryptoComputeLab
  portcuquine
  VDF
  10 min
- ResNetLab
  Yiannis Psaras
  ResNetLab on Tour Webpage design
  5 min
- CryptoComputeLab
  nemo
  Proofs v6.1.0 release
  5 min

Mar 04

Recording

- CryptoNetLab
    - Nicolas
    - “IPP - Aggregating Groth16 proofs asap”
    - 5min

- ResNetLab
    - Petar
    - New direction on Content Routing - Composable Routing
    - 5 mins

- CryptoEconLab
    - ZX
    - Network analytics on sector states in relation to V1 sectors
    - 5 mins

- CryptoNetLab
    - Luca
    - showing the different quadrant with prices and showing the community doc that we made
    - 5 mins

- ResNetLab
    - Alfonso
    - PeerNet++: A “go-to” P2P simulator Work Plan (share why we are trying to launch this collab project).
    - 3-4 mins

- CryptoNetLab
    - Sarah
    - Research projects: Verifiable Resource Commitments
    - 5 mins

- ResNetLab
    - Yiannis
    - From IPFS to Filecoin: Two talks one deck, how to unify our presentation of both projects to our research audience.
    - 5 mins

Feb 18

Recording

- ResNetLab
    - Alfonso de la Rocha
    - Retrieval test for pay-per-packet. State machine designs for metering RFCs
    - 5 min

- CryptoNetLab
    - Sarah
    - Consensus update!
    - 5 min

- CryptoComputeLab
    - VMX
    - “Real World Deadlocks”
    - Inspired from recent work by Nemo + VMX
    - 5min

- CryptoEconomicsLab
    - ZX
    - Establishing & Growing CryptoEconLab
    - 5 min

- CryptoNetLab
    - Anca
    - IPP to Aggregate SNARKs
    - 5 min

- ResNetLab
    - Yiannis Psaras
    - “Decentralising the Internet with IPFS and Filecoin” (DI2F) Workshop @ IFIP Networking
    - 5 mins

- CryptoComputeLab
    - Jake
    - Poseidon Hash Function 101
    - 5min

- CryptoNetLab
    - Nicola on behalf of Irene
    - Update in PoReps
    - 5 min