Sean - 00:03

Okay, everyone, welcome and good evening from Amsterdam. Thanks for joining us today. I'm Sean and I'll be filling in as host on behalf of Rochelle, who unfortunately is not available today. We've got a big group from the Nosana gang on the call. Jesse's here. Hi, Jesse. Okay, Jesse's not here. She.

Sjoerd - 00:40

Yes, sir, I'm here. Thanks for having me, man. Hello, everyone. Thanks for tuning in.

Sean - 00:45

Laurens is also in the house. I spend a lot of time talking with Laurens at the moment. Hi, Laurens.

Laurens - 00:50

Hey, Sean. It's good to be here.

Sean - 00:53

And we've got a special guest today. Our head of business development, Bourjois has joined us. Hi, Bourjois.

Bourjois - 01:01

Hey, everyone. Hi, Sean. Thanks for having me.

Sean - 01:06

Jesse, you there now?

Jesse - 01:08

Yes, I'm here. Small technical issue, but I think I'm good. Hey, everyone.

Sean - 01:14

Okay, we've got quite a bit to get through today as it's been busy in the sauna land for the past few weeks. So let's get going. First up on the agenda, obvious one, token 2049 and break point last week. So from what I've seen on X, and obviously I've heard internally, a very good time was had by everybody in Singapore. Some major announcements from many projects, including our own, but it would be great to hear from our team who were on the ground in Singapore for the week. So, Jesse, long flight to Singapore, Was it worth the trip?

Jesse - 01:53

Absolutely, yeah. We literally just got back the other day and it's been an amazing week long flight. But the energy in Singapore was amazing. There was, yeah, I think this over the whole week. Of course there was token 2049, there was breakpoint and there were over, I think 780 side events happening during the week. So like just the number of people and events happening were like, yeah, really impressive. It was definitely worth it. I think we attended like four or five events every day. A lot of speaking opportunities, lots of networking. No. sana is a quite popular project this time around. I remember last year at Breakpoint, weren't that well known this time. A lot of questions, a lot of interest in Nosana. So, yeah, it was an amazing week overall.

Sean - 02:46

Cool. Cool for you. What was the highlight or the highlights of the week?

Jesse - 02:55

That's a good question. There was so much happening. It was really eventful the whole week. So many things happening. I really enjoyed the panel that I was on that was during an Akash event, actually together with Teorik and Jenson about distributed learning. Very insightful. Met so many interesting people there. Deep in AI is booming right now. Like there's A lot of people working in this space that you can meet on the floor at these events. So during this specific event we're talking about like the impact of distributed learning and where it is going and I think Nosana has a really nice spot there. As we're distributing COMPUTE and as we're going to see like innovations on federated learning and these new technologies, I think Nosana will have a really good opportunity to cater for this market.

Jesse - 03:50

But that was one of the many events that were very insightful.

Sean - 03:55

Cool. We're also glad that you're back. So it's a long week for us at Worker Bees when you guys are on an event and shoured. What were the highlights for you? I heard you slept for about 10 hours on the flight back.

Sjoerd - 04:16

Oh yeah, I was exhausted. It took me some time to get my energy back, but it means we worked hard. The entire team that was in Singapore, went to all the events like Jesse said. So it was amazing. One of the highlights for me, as it's not been mentioned yet in depth there was definitely the Solana breakpoint as Jesse said. So this event just continues to evolve each year, showcasing more people, more builders each time we go. This time was held in Singapore. Last year it was in Amsterdam and it's just great being part of the Solana community, walking amongst the other projects, hearing all the announcements. As in previous years, Nosana was again featured on the Breakpoint Agenda and I had the honor of leading a workshop.

Sjoerd - 05:08

So during this session we focused a lot on demonstrating how people can actually leverage our GPU infrastructure and how they can launch artificial intelligence applications on them. And I really believe the workshop was a great success. One of the standout moments was showcasing, I think real applications currently running on Nosana today. So for instance, I presented the Sogni AI macOS application, generating beautiful images, artwork live on the screen, all powered with no Sana GPUs. So the positive feedback we received from the audience was great. I believe people just really like to see no sauna as actual businesses today running their AI applications on us. Right on Nosana, what was also really great, I think Jesse mentioned it as well. It's just that so many of you, the community, showed up there in Singapore.

Sjoerd - 06:02

This really gives the team so much more energy and confidence to move forward and build Nosana. So yeah, thank you all for that.

Sean - 06:11

Excellent, excellent.

Jesse - 06:12

Specifically Luvpawgs, I see him here in the chat. It was amazing to meet you. We met a few community members there, but that was definitely a highlight as well to meet some people in person.

Sjoerd - 06:22

Yes.

Sean - 06:24

Hey Jesse, back to your panel for a second. That was at the Akash AI Summit side event, right?

Jesse - 06:34

Yeah. Right. Yeah, Akash had a few events. The panel was indeed in the morning at the side event they hosted on the Tuesday, I believe. Yeah, it was very like the events Eiko shows was nice. This one indeed was like a breakfast and lunch event and a lot of people from the space were there, so. Yeah, but there were more events that they did. So like I think they had a good run at Token.

Sean - 07:07

Yeah, it seemed, I think, you know, a few weeks ago or a month or two ago there was another Akash event that were part of or were talking with Akash and I also saw a photo of a Bourjois on X on an Akash boat tour in Singapore or something like that. Is there, is there something cooking there with Akash or is this just two great projects being friends with each other?

Bourjois - 07:32

Yeah, that's a good question.

Jesse - 07:33

Yeah, were on a boat event as well when we met with Greg and the team. Great people and we get the question a lot also at Breakpoint, like aren't you guys at natoken24 and aren't you guys competing and how can you be so friendly together? But I think that we're. There is some overlap I guess in what we do in the decentralized deep in space when it comes to offering GPUs. We're also very different projects and I think that Akash is doing a really good job how they're building community, how they're treating open source development and how serious they are about like decentralization. And they are quite unique, I would say, compared to all other deep in projects in what they do.

Jesse - 08:18

And we share, I think some vision and values when it comes to decentralization as I think both Akash and Nosana are basically saying that if you're not open source, you're not really deep in as you're not going to be really decentralized if your source code is still compiled and shipped by an entity behind closed doors. So these values I think really resonate and that's why we get along really well. Like the scope of the project is different. I think we're tackling the market very differently and there's a lot of things completely different. I mean Akash is building a super cloud which has a way different scope and way to roll out your products. But the things where we overlap when it comes to GPU compute.

Jesse - 09:08

We had some great discussions also about LLM performance and how can we for example, do some like quality checks on nodes running LLMs and to sort of to make sure like we can do more extensive benchmarking. There's a lot of things that overlap that I think we can really have a good discussion about with a cache and I think we're going to see more collaboration in the future as well as I think. Yeah, there's just a lot of good energy from both sides.

Sean - 09:40

Yeah, nice. Two great projects I see mentioned on multiple different socials about Web2 projects dressed up as Web3. And I'm going to start using that line because I think that's kind of cool. Hey, Sjoerd, you also had a sit down with Solana. Oh yeah. I'd be a little bit nervous in that situation with cameras pointed at me and stuff. But I watched it and I thought you did really great. But this was about some announcement that we made or something.

Laurens - 10:12

Oh yeah, yeah.

Sjoerd - 10:13

No, 100%. I had the opportunity to sit down with Darre from the Solana Foundation.

KODG - 10:19

Indeed.

Sjoerd - 10:20

So the Solana foundation plays a big role in organizing, for example, breakpoints, but also the hacker houses that Solana organizes, hackathons and they're actively engaging with various projects. Indeed. So like with Nosana, so they set up this super well equipped media room for interviews, complete with professional lighting, camera setups, the whole nine yards. It was fantastic. But indeed a bit intimidating, as you just said. But you know, Darre, the guy I was speaking with, really knows his stuff, you know, particularly in the area of DePIN decentralized physical infrastructure network. So I really enjoyed the conversation as it allowed us to go deep into what Nosana is actually working on today, a variety of related topics. The interview is online obviously, so be sure to check it out.

Sjoerd - 11:15

And like you said, for example, we spoke extensively about our upcoming mainnet launch and the announcement we've made during Breakpoint.

Sean - 11:25

Right. So that's mainnet is coming January 2025 and that's only just over three months away. So maybe you can give the gang this year maybe a very summarized version of the announcement.

Sjoerd - 11:40

Yes, absolutely. It marks a pivotal moment for the team and the broader community as I think it's a combination of our hard work and dedication to building the Nosana platform and setting the date, as you said, January 14, 2025. I think it's crucial for various reasons. While of course it was understood that Nosana would launch Mainnet eventually, I think having a specific date allows us to create a clear roadmap for our users and the developers. The Nosana network is a complex ecosystem. It integrates powerful GPUs, smart contracts, a diverse array of interfaces designed for AI applications. And for us as going through Test Grid, we've been in Test Grid for a long time and testing each of these components thoroughly. We've reached this stage where we can confidently assure our users that the technology is operational, it's reliable, and it's ready for public engagement.

Sjoerd - 12:50

So this launch date not only signifies, I think, our readiness, but also helps us build momentum and excitement within the community as we move closer to this date and to this new era of decentralized computing.

Sean - 13:06

This is fantastic because I know a lot of the community and the Test grade participants have been, you know, waiting for this kind of major thing. But would it not be correct to say that even during Test Grid, you know, we're technically already on mainnet? I mean, aren't we running on mainnet? Solana?

Sjoerd - 13:26

Yeah, yeah, yeah. No, I think that's a fair observation. The primary objective of Test Grid, you know, it's always been to ensure that our platform is production ready, so which involves, you know, thorough testing and refining all the components, like I just said. So while I think, you know, many of these key features have meanwhile have been integrated into the system, into the.

Laurens - 13:50

Network.

Sjoerd - 13:53

I think, you know, the mainnet launch signifies a transition to a fully operational and permissionless system. So many of it is now already in the system. We have, you know, as you said, Sean, three months left before mainnet launch. So, yeah, that will be, you know, to bring the final. The final features into the system, I'd say.

Sean - 14:17

Okay, so there's things we have not seen yet which will arrive in mainnet.

Sjoerd - 14:22

Yes, sir.

Sean - 14:24

And I would guess those would be seen in Test Grid phase three.

Sjoerd - 14:31

Absolutely. Yes, sir.

Sean - 14:33

Okay, so that was the other part of the announcement that you guys made last week that Test Grid phase two is now officially over, but Test Grid three begins almost immediately next Monday. So, Jesse, maybe you could give us an overview of Phase three. What's it all about? What's different about Phase three compared to Phase two?

Jesse - 14:58

Yes. So Phase three is indeed coming on Monday. That's pretty quick. And it's the final phase of the Nosana Test Grid program. Test Grid has been running for almost a year now, and it was divided into three phases. And the third phase will focus on the final pieces that we need to put together to make Nosana work well by itself for end users. And these pieces are mainly focused around few specific topics. One of them will be the staking requirement. So the nodes that are currently operating on the Nosana that is created in phase one and two were able to join and operate without having to stake NOS tokens. And at the start of desperate phase three there will be a requirement to stake tokens.

Jesse - 15:55

So anyone that operates from Monday onwards will have to stake the required amount of nas and else they will not be able to join and earn tokens on the network. So this is an essential piece. Staking in the end is designed and built to secure the network and to hold nodes accountable for doing good work. So from this moment onward that dynamic will be in place in its first form and it's extremely important that we get to test this out during the time of test grid phase three and we'll be able to really see and fine tune this dynamic such as like staking requirement, how many tokens should be put for which types of GPUs and which types of AI inference jobs that we do. So that's a big one. Another one that's being tuned during this phase is the pricing mechanism.

Jesse - 16:54

Up until now the pricing mechanism of Nosana has been very basic and simple. We haven't really tuned it yet and that's what's going to happen during test grid phase three. So we've saved this until the end because it's very important part and it's a bit of a tricky one as there's two sides to pricing. On one hand, Nosana wants to offer the most affordable GPU power in the whole industry and we want to attract all the big companies to come to Nosana to get their GPU power. On the other hand, we want to pay nodes and GPU suppliers on the network a fair amount. So we want to make sure that they're happy and they're earning more than other GPU platforms. So this is a tricky balance. But yeah, we're doing the math.

Jesse - 17:44

We're making all the Excel sheets, we've been doing that for a while. And during this phase of test grid we're going to make sure that the plan is rolled out to achieve both objectives. So we truly believe we can be the most affordable and high quality GPU provider on the whole, on the home cloud and GPU market, while also being the best paying platform. So that's what we're going to achieve. More content and more information and details of course, to be released about that. Yeah, those are the two main pillars and then there was a whole bunch more of things that will be done during test script phase three. When it comes to tuning the network, the Tooling around the network that we're releasing is getting some really good upgrades. Yeah.

Jesse - 18:34

And there's a bunch more that you can read in our article that's going to come out that goes deeper into this topic. But that's basically the high level stuff that's happening now.

Sean - 18:48

This is really cool and obviously I have a very personal interest in this because I'm quite heavily involved in Test grid. Laurens, could you maybe dive into a couple of the really important technical aspects of phase three that are coming up?

Laurens - 19:07

Yeah, definitely. So Jesse already explained a little bit of the higher level things that we will be testing and implementing in test script phase three. He already touched on pricing, which is really important and what we're going to do starting from Test Grid Phase 3 onwards already, so that's already this Monday is to automatically pin like multiple times a day based on the US dollar price of the NOS token because the nodes are getting paid in NOS tokens, but the NOS token at the price is volatile compared to USD. And for our clients and customers that are running GPU jobs on their network, they want to know, okay, this is how much I have to pay in USD, right. So they don't want fluctuating prices all the time.

Laurens - 20:06

So that's why we will automatically repin the price of the different markets multiple times a day starting this Monday. So it's already way more dynamic and like Jesse already said, going to experiment with ways to both have the best pay for notes and also be the cheapest for clients. And I think both of these things are achievable if I look at the current market and our competitors in the market. So that's really exciting to me. Another big thing that we're going to do is a bit more advanced job to note or to market batching. So right now you can match a job to a specific market and a market is a specific type of gpu. But test grid phase three will also include us testing more dynamic and more types of markets.

Laurens - 21:03

So markets will be a bit more dynamic, allowing for more different features in the markets, not just including gpu, but maybe also bandwidth is important or disk space is important, or maybe even the CPU can be important and each client might have its own specific needs. Right. So there might be a market per client and we're probably going to move to a place where there are premium markets. Those are like markets with validated notes, with good notes, with notes that have proven themselves in the past markets that Nozana has put up. But the goal of mainnet is also to be like an open network. So there's also going to be, I would say community markets, meaning everybody can create their own markets and put different requirements for these markets.

Laurens - 22:00

So there will be these two types of markets and there will be many more markets than what we have right now and that will allow us to way better job to node matching in the future.

Sean - 22:12

Okay, that's really cool because I've had a number of questions from node sitting at the very top end of the leaderboard of hey what's in it for me being overperforming and I think it's going to be very interesting to see when we get closer to mainnet of how this plays out for the really strong performing nodes and what benefits that going to bring them. But we'll leave that one for another day. Quick question Jesse. Once we start phase three, will we be doing any process of removing inactive, non staking or non performant nodes from the network? We have over 2,000 nodes on the waitlist at the moment and I know a lot of those people are quite eager to get involved.

Jesse - 23:08

Yes, yes we will. Like in the background. We've been continuously improving and I think it's a really important part two of test grid phase three, like the benchmarking methods we use and how to make sure the nodes that are operating are performing on a high level and giving the first of all have the right hardware but also the right stability and performance metrics that we are looking for. So in desperate phase three there will be shifts in like nodes that are not doing well or especially nodes that are malicious to remove them from the test grid and allow other nodes to come in. There will be some dynamic there. I don't think the details are yet public on this so that's something to keep an eye out for.

Jesse - 24:00

But there will definitely be movement in this onboarding of new nodes and exiting of underperforming nodes.

Sean - 24:08

Excellent, excellent. And do we have customers now running on Test Grid? So real customer inferences?

Jesse - 24:17

Yes, yeah we do. So that's exciting. But we've been doing quite some inferences from customers. The coolest example that we have right now that we've been showing during the conferences as well is called Socni AI. They're an image generation platform. You can think of them as like Photoshop but then with like AI in it. So basically everything you're creating is through prompts and it creates these amazing stunning images and in the background they're being generated. On the Nosana network we've been working quite closely with their team to make this happen. And it's running very smooth and it's a great demo that really visualizes and makes tangible what Nosana is doing. We have also some other partners running inferences and we're actively onboarding more and more partners that will be disclosed soon.

Jesse - 25:13

So testgrid is getting more busy every day with like real world jobs and use cases and we're quite confident that this is a trend we can accelerate and continue.

Sean - 25:28

Very, very cool. That answers a question I had in my mind. Why Bourgeois was so, you know, forceful of. I'm on the call today because he's here to tell us all about Sogni and this amazing partnership. So Bourjois, the floor is yours.

Bourjois - 25:45

Yes, indeed, as Jesse mentioned, sogni really offered like a very, I would say very sophisticated AI art image generation app for artists that are professional or not professional. And they run over 100 models and everything. So basically they're like really like a sort of like Photoshop decentralized and everything, but without any remuneration, without any restrictions. So then you would ask me that, what is the purpose of this partnership? So when we met and we discussed with Mofitz, like variant smart guys and everything, but they had like one challenge is most of the workflow were run locally, sometimes they are like slow workflows due to large models. And that's where like Nosana for instance, can add a lot of value. Because by integrating Nasana, they were able to offload all the large models and all this process.

Bourjois - 26:47

So they were able to leverage all decentralized GPU grids, which meant they were able to provide speeds and reliability today to the customer and efficiency and so on. So in an approach that really fits with what we want to do with our value proposition, which is really offer compute power in a cost efficient way and with seamless integrations. Working with Sogni was great as well, because we could definitely test the different assumptions, test the limit of a product and do some fine tunings. Because when you integrate Nosana, they will have some back and forth and some very valuable discussion on both sides. Especially because the founders and the team of Sogni are very talented. They had C level position at CoinMarketCap. So they're like people with experience with a lot of stuff to share and they know exactly what we want.

Bourjois - 27:46

It is exactly this type of expertise that we need because then we can really like, I would say, leverage our test grid phase. And then right now I'm pretty happy with the result that I'm pretty happy with the result. I Think movies. One of the co founders share a very nice tweet that detailed exactly the process they've been through where they went through a deep analysis of the different providers, the different players on the market. So I think there were like 13 and among the 13 they decided to go with us and Salad, which I'm very proud of because it's a very competitive market and it shows that, okay, like what we're building is solid and it really solves the issue of different clients or different, I would say, AI companies out there.

Bourjois - 28:41

So yeah, as Jesse mentioned, we are like working on the integration with different partners right now for different use cases. That's why the next phase of Test Grid is important because the pricing will come as well and we want to make sure that it is cost efficient, that we can always provide the best service to our clients. And so they can always focus as well on the core businesses and they can grow as well because we want to make sure that we put them in a position where they can fully explored their resources and come back as well to what had been said as well. That's why it is so important to travel, to go to this event, to go to Singapore and so on.

Bourjois - 29:28

Because by virtue of being there, you can connect straight away with a different client, understand the need, understand the painful what has experienced with different providers, how we can add value to the product, how we can, yeah, what we can prioritize on our side, what kind of feature we can push. So yeah, all this travel, all these discussions were very, very fruitful. I would say the Sogni case, it's a nice case. We invite you guys to go on the app store on your desktop, the Mac desktop, I would say, and download it, play with it and yeah, just be creative and have fun because you know, at the end of the day you leverage both products. And the last thing that I would like to say, like a big shout out to Matt and David because they worked so hard on the integration.

Bourjois - 30:26

It was really, I'm the one speaking right now, but it was really like the team efforts, like especially for the integration. And right now I'm very happy about the result. They're very happy about the results. And as we said, happy client, happy Life. And hopefully 2025 is going to be the year of customers.

Sean - 30:48

Cool. Cool, man. I saw the tweet from Malvis yesterday. The one quote stood out for me that Nasana stood out as the smartest Web3 GPU team in the room. And it's probably the best tweet I've Ever seen about Nasana in a year. So I was really happy to see that. Cool. Well we're looking forward to seeing this and seeing more of SOGNI coming on board as they scale up and start pushing a lot more inferences through. I think it's great that we can start showcasing our products set to customers and also to showcase our customers experience to our community like this. One more thing for you, Bourgeois. I think you've got a quick update on the upcoming AI summit in Amsterdam next month.

Bourjois - 31:36

Yes. So we're going to be there with a lot of team members. So again like this event is going to be very important for us because it is a more AI event rather than a Web3 event. So that would be very nice to connect with all these AI, I would say companies to test the different assumptions to see how our value proposition is, to what extent it is relevant to what to the issue that they have right now. And yet the team is pretty excited. We're ready for that. We will have as well a side event where if you check on the socials, we'll see the invitations. So if any member committee members around Amsterdam, feel free to come to register and so on. And yeah, so very excited about that event.

Bourjois - 32:29

Usually with that team we're pretty confident that we bring more leads but also that with the keynote of Jesse that he will give that it will also allow people to really understand like what is our value proposition, what is our mission, what our value and what and yeah, and we strive for greatness and we're committed to provide the best product on the market. So yeah, very excited about this and if anyone want to join, feel free to let us know and we'll make sure that it happens.

Sean - 33:04

Excellent, Excellent. Well, I hope we see a lot of our Netherlands based community at the event as it is in. Well, it's not in Amsterdam, it's in Zaandam and anyone who is coming, we've got a lot of swagger and there's something special about this swag because it's swag that's been produced and sent to us by our community, which is absolutely amazing. So all kinds of stuff is going to be there for you to come and get. So if you've not been lucky enough to talk yourself into getting a Nosana hat, we're going to have some of those at the event. So come by, come and see us, drop by our booth and get yourself a hat. Okay, thanks a lot Bourjois.

Bourjois - 33:46

And it will be as well another surprise. So come to the booth.

Sean - 33:50

Yeah, excellent. Yeah. I know what that surprises. Hey, thanks, man. That completes our agenda today. We'd now like to open the floor to our community to ask the team any relevant questions you may have. I've got a few that have been sent to us over Discord, but if anyone would like to ask a question directed the team on open mic, you're going to need to raise your hand and I will unmute you. Now in zoom, you do that by going to the bottom of your window and find the react button, which is next to the chat button, and if you click that, it should raise a hand and then I can see that you've got a question and I will give you the floor. Okay, Macho Drone's got a question, so I'm gonna unmute you, pal. Here you go.

Sean - 34:53

It's gonna prompt you to unmute your mic. I was just reacting. I didn't have a question. I'm sorry for any confusion. Okay, I'm going to mute you again. Macho, any questions? Going once, going twice. Okay, it looks like everyone's a little bit shy today. Oh, there's KODG. The floor here is pal.

KODG - 35:35

Hello?

Sean - 35:35

Hello, can you hear me? I can, yes.

Jesse - 35:38

Hi.

KODG - 35:39

It's very nice to be on this call. Super cool information you give us every time. And my question as a node operator regarding this dynamically and how to say filtering nodes that not perform well, etc. As the node operator, I had an issue lately that my node with unknown reasons just performed not really good. I don't know why we tried to solve it and it was solved by. I think it was solved by switching from Windows to Wind 2, but anyway, so my question is if operators get chance because the leading board was not updated, which is on time, and it appears to get a chance to how to say, to argue decision to retrieve it or try to fix performance or something like this, or it will be just filtering by some data on your side. Thank you.

Laurens - 36:58

Yeah, that's a really great question. Maybe I can take this one. I really like the question. Yeah, we have been playing a lot with the benchmarks, trying different things, seeing how can we actually measure the performance of a gpu. How can we catch cheaters? How can we make like a distinction between like cheaters and people that are like temporarily underperforming, which is not necessarily bad. So you don't have to worry that if you do a couple of jobs with a bit less performance than normally, you're not gonna get banned or slashed right away, that this is only for continuous bets, bad performance or actual cheatings. That being said, the leaderboards that you all saw.

Laurens - 37:46

Yeah, that's based on some of the benchmark results that we have been doing and we're working as we speak, we're working on integrating this into like a real time dashboard. So every benchmark job that gets completed will be right away visible in the leaderboard and will update the rankings in the leaderboard. So this is being worked on and it's fun to see in real time, but it's also crucial parts to be able to catch cheaters in real time. So yeah, it's a really important piece of the network that we're working hard on. And yeah, I can't wait to get that ready and have the real time leaderboards available.

KODG - 38:35

Thank you.

Sean - 38:37

Thanks for your question. Anyone else who would like to be brave and go on microphone? If not, I've got a few questions here that Community has already provided earlier today. Okay, we're going to jump to those. So I'm just going to leave this open. Jesse Lawrence. Sure, Bourgeois, if you want to take it, just grab the question. Sure, Bourjois, if you want to take it, just grab the question. Was there a major aha moment during the, you know, the ride from the beginning of test grid phase one until now?

Laurens - 39:30

Yeah, I can take this question. I think I'm just thinking about is it like one major. Maybe there's not one major aha thing, but there's many learnings that we did throughout test grids. I think that we are. Yeah, the focus of Nozana is really consumer GPUs. That's also where our power is. I would say that's why we can become the cheapest GPU provider on the network while also giving really good pay to the notes. But this also comes with a couple of challenges, right? So suppose there's these people that have like a gaming PC at home with a really good gpu. They want to import their nodes. A lot of our competitors only allow you to onboard if you have a mini cloud almost or if you are native Ubuntu or Linux for example.

Laurens - 40:31

But we spent quite some time to make sure this also works on Windows through wsl. And yeah, I think that was a really good decision to do because we saw lots of nodes on board that are running on Windows and there were some challenges there that we had to tackle. But yeah, I think that was a really important one. Another one is that because we have so many consumer GPUs, everybody is behind their own firewall, right? Everybody's behind their own router. And it's hard to basically expose nodes.

Sean - 41:13

To the public.

Laurens - 41:14

And in the beginning these nodes were not exposed, so you can't really talk to the nodes. So we can't really know are the nodes online? Are they actually running a job? Beside that we can see on the blockchain that they got assigned a job. We don't even know if the node is like online as a job poster. You couldn't talk to the actual node directly, only through the blockchain. So you had to wait to get your results back on the blockchain and then you would see, hey, the node completed my job. And I think a really crucial part is that we made some super cool technology that allows us to basically expose the jobs and some information about the notes to the public.

Laurens - 41:58

So whenever you start your note now you get like basically a domain name that you can that it's like an API and the job poster can talk to the node that's running their job to get streaming logs and to get real time information about the status of the job. We can know things about the uptime of a node, what kind of GPU they have, and normally this is something that like enterprises with big clouds, they are able to set it up, but as a consumer gpu, it's normally really hard to set it up. And yeah, I'm really happy with the technology that we built that allows us to basically talk to these nodes even though they're consumer nodes. So that's one for me, major moment that I thought, okay, that's really some powerful technology that we've built.

Sean - 42:55

Very cool, very excellent. Thanks for the response. Lawrence, second question. And there's a bit of a reversal question here. So if Nasana or if we, if you were a Web2 centralized compute company such as Amazon or Google, what steps would you take to ensure a company like Nasana does not fully disrupt you with their advantages when it comes to providing compute power in a decentralized manner? Or maybe the answer is they can't and we're going to eat their lunch.

Jesse - 43:36

Yeah, I'm willing to take that on, but it's no, it's a fun question. So it's the reverse, right? What would I do as Amazon to make sure that Nosana doesn't win? Because we have some really strong cards in our hand when it comes to GPU power, especially being able to access 4090s and other powerful consumer cards at large scale. And providing that to companies is just really powerful. Lawrence mentioned just now a couple of reasons like Disadvantages we got for being decentralized and using consumer GPUs like the Firewall and technical issues. But I think we're really at high pace solving these issues and creating workarounds while keeping that decentralized nature, which is the challenges we've had so far. I don't see much standing in the way. I think Amazon has a rough position when it comes to GPU power for AI inference.

Jesse - 44:48

Yeah, I don't think there's anything they can do to stop it. I don't see them creating their own decentralized network. They cannot start racking up 4,090 GPUs. So I guess they will have to try to figure out what the future holds and adjust. And of course Amazon is a lot bigger than selling GPU power, so maybe they just have to give up that game and go back to selling books.

Sean - 45:17

Or they could just buy no sauna. Or they could just buy Nosana.

Jesse - 45:21

Or they could buy Nosana.

Bourjois - 45:23

Right.

Jesse - 45:23

But then they will like someone will fork Nosana because I think a lot of users won't like what's happening. I think there's been a lot of drama lately also around other software elastic and stuff that Amazon had something to do with. But yeah, our license and our software is open, so I think there will be someone else that forks it and there will be another Nasana out there that they have to worry about.

Sean - 45:49

Perfect. All the little Nasanas come out to play. All the little Nosanians come out to play. Thanks for that, Jesse. Last and final question. What does Nasana think about offering a referral program to the community to get companies introduced or to use Nasana? What does Nosana think about offering a referral program to the community to get companies introduced or to use Nosana?

Bourjois - 46:26

I think that's beautiful if I can take that one that super efficient. Because everyone will be winning. There will be a win situation and that will be even a more beautiful story to share with the community. Because at the end of the day we are like a decentralized project and that's also the type of initiatives that we want to encourage. So I am 100% for that.

Sjoerd - 46:55

Me too, man. Great suggestion.

Sean - 46:57

Yeah, excellent. I will respond to the person who posed that question on Discord as soon as we end the call today, which is, I believe what we're going to do. Right now we are at the end of the call. I would like to thank all the community for joining us today. I would like to thank all of the Nasana team members from taking time from. They're incredibly busy schedules to spend the time with the community. To all our community members, we really appreciate your support and the whole team is really looking forward to what's coming in the next three and a half months. And we hope to see you all in Amsterdam in October at the AI Summit. Come and join us. Thank you all.

Bourjois - 47:46

Thank you, Sean. Thank you as well, Sean.

Sjoerd - 47:49

Thanks, everyone.

Bourjois - 47:52

Yes, Bye.