



Decentralized networks, growing together.

Former JPMorgan blockchain leads launch venture to unite enterprise and public blockchains, disrupt big data

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- Clovyr is an ecosystem of in-house and third party developed applications and services initially targeting both public and permissioned (enterprise) Ethereum networks
- Clovyr intends to do for the decentralized software development lifecycle what Google App Engine, Firebase, and Heroku did for traditional software
- Initial product offerings will pull together fundamental building blocks like user authentication, data feed access, and simplify deployment and network management
- Later offerings will include novel services to aid GDPR compliance and allow businesses to offer data-driven customer experiences while individuals retain ownership of their data
- The Clovyr product will enter public beta later in 2018

Monday, May 14th, 2018 - Today in New York at the Consensus 2018 blockchain conference, Amber Baldet and Patrick Nielsen unveiled details of their new venture, Clovyr.

Baldet and Nielsen previously served as Product Strategy and Technical Development leads (respectively) for J.P. Morgan's Quorum platform, an enterprise-grade, privacy-focused version of the public Ethereum blockchain. They departed in April 2018 to address what they see as a gap that needs to be filled before global adoption of blockchain technology can truly take off - a layer of value-add services between the database-like ledger layer and the user-visible applications. If internet-evolution analogies hold, they're building a next-generation Google App Engine for decentralized applications.

Baldet explained the problem, "There are some great building blocks for decentralized applications out there, but they're hard to find, hard to evaluate, and hard to make work together - and there are even more critical pieces that just don't exist yet. Meanwhile, complex vendor onboarding processes at corporates stifle experimentation, and integrations with existing vendors like ERPs or payments processors are bespoke or non-existent. Almost every bit of blockchain pilot code is going to have to be rewritten in the next five years. We can do better."

More than just a development framework, Clovyr is an ecosystem of applications and services - almost all open source - that empowers teams of all sizes to experiment and iterate more quickly, bring products to

market that will run in a cloud or in an on-premises production environment, and enable new features as needs change, reducing potential rework and driving down the cost of innovation.

Clovyr brings the flexibility and ease of use of modern application development to the blockchain domain, for the first time offering a unified way to create, deploy, manage, and extend applications whether they are destined for the public Ethereum network or a private consortium ledger. Monday's demonstration on-stage at Consensus focused on demonstrating the rapidly progressing codebase:

First, Baldet and Nielsen showed an enterprise developer's workflow, choosing to deploy a permissioned blockchain to an existing Microsoft Azure cloud account, and then enabling access to Thomson Reuters FX market data (via [BlockOne IQ](#)) as an input to build a capital markets focused application.

Second, they showed a public blockchain developer's workflow, selecting from a variety of self-sovereign identity and authentication options ([uPort](#), [Civic](#)), enabling the ability to pay for transactions sent to a public network via a [Metamask](#) wallet, and deploying a smart contract to manage these services to an Ethereum testnet for further development.

Planning to eventually be "blockchain agnostic," but initially targeting Ethereum-variants Parity, Quorum, and Go-ethereum (Geth), CTO Nielsen clarified that Clovyr is about holistic application development and systems integration, beyond just cross-chain interoperability, "We're very excited about recent advancements in blockchain interoperability and scaling, such as Polkadot, Cosmos, Plasma and Hyperledger Quilt, and will be integrating the best solutions available, enabling developers to pick what works best for them."

Ultimately, they say, it's about being ready for the time when all the different actors in this rapidly evolving global ecosystem, who have thus far worked in relative isolation from each other, are ready to interact. And yet, they differentiate their vision of a "hybrid" Internet of Value connecting permissioned and public networks (also see: [MIT Technology Review](#), [CoinDesk](#)), from moving core operations or launching businesses on public blockchains directly:

"The privacy, scalability, and regulatory challenges of moving traditional business processes to public blockchains is dissuasive, and probably will continue to be so for a number of years," said Baldet, "But that doesn't mean that enterprises won't find value in the innovation happening on public networks. We want to be ready when they are, and help industry leaders make smart choices."

Hinting at the "smart choices" to come, Nielsen added, "Data privacy is at the forefront of everyone's minds, whether you're a business impacted by GDPR or a regular person worried about oversharing on social media. Right now there's no way to keep data private at its point of origin and also enable big data analytics, but there could be. That might be but one tool in the Clovyr toolkit."



About Clovyr

Clovyr is a startup based in New York City, building software and services for the next-generation Internet of Value.

Member, [Enterprise Ethereum Alliance](#)

Learn more at clovyr.io

Amber Baldet bio

Amber is a leading voice on the practical application of blockchain technology within the financial industry and beyond. Appearing on 2017's Fortune's 40 Under 40 list of the most influential young people in business and CoinDesk's 10 Most Influential in Blockchain, she "handily bridges the divide between the Wall Street and crypto sets."

Amber previously led J.P. Morgan's Blockchain Center of Excellence and served as Chair of the Financial Industry working group of the Enterprise Ethereum Alliance since the inception of each. She has spoken at SXSW, Money 20/20, Consensus, MIT, Wharton, EthCC, Defcon, and numerous other venues.

Patrick Nielsen bio

Patrick led development for J.P. Morgan's open source blockchain projects including Quorum and Constellation, and sat on the firmwide Cryptography Review Board. A software and security researcher by training, he has held executive positions in information security and privacy at companies large and small.

An early contributor to multiple open source projects including the Go programming language, Patrick is also a Founding Board Member of the Securing Smart Cities initiative, and was a Visiting Researcher at Cornell University. His work has been featured by NBC, CNN, FOX, Fortune, Forbes, The Wall Street Journal, The New York Times, and is the basis of transparency tools which power programs by the Federal Trade Commission, Better Business Bureau, and others.