

Federated Reserve

Candidate to host Factom Federated Servers



TABLE OF CONTENTS

ABOUT US	2
GOALS	2
WHY Federated Reserve?	2
TEAM	3
Chris Garry (@mrroboto) Lead Server Architect	3
Qiming Fang (@Fang) Server Architect	3
Juan Martinez (@jmartinez10) Server Architect	4
Henry Liu (@Henry Liu) Community Growth & Marketing	4
Mark Thorsen (@markthorsen) Business & Financial Operations	5
SERVER HOSTING	5
MAINTENANCE	6
CONTINUOUS DEVELOPMENT	6
GRANTS	7
FACTOM COMMUNITY DEVELOPMENT	7
INCREASE ADOPTION	7
CONTINUED SECURITY DEVELOPMENT	8
PERSONAL SECURITY RESOURCE	8



1. ABOUT US

Federated Reserve is an IT service provider specializing in blockchain technology infrastructure. Our team brings together experience with software development and operations at Amazon Web Services and Google, data analysis and machine learning, community and business development at Facebook, as well as startup and investment expertise in Venture Capital. We are excited to bring our knowledge to the Factom community. Federated Reserve has team members in Texas, San Francisco, and Tokyo, with servers in Singapore and South Korea.

2. GOALS

- **Operational excellence** - provide authority and follower nodes with 99.99% uptime
- **Technology adoption** - expand operations into new regions and grow the Factom community
- **Technical Development** - contribute technical expertise to the Factom community
- **Financial Contribution** - contribute 50% of Factoids earnings to the Protocol Grant Poo

3. WHY Federated Reserve?

Our team consists of seasoned professionals from Facebook, Google, Amazon and AWS, and Venture Capital who bring a combined 15+ years of experience managing complex technical projects including web service development and operations for enterprise.

Our team has been involved in crypto since 2013, and today works at the forefront of the industry as blockchain investors and builders. We serve as advisors to over a dozen well-known projects that are collectively valued at over \$1B, and get invited to speak as thought leaders at crypto conferences all around the world. In short, we have a deeply vested interest in the blockchain space, and can serve as Factom evangelists to the large audiences we have access to.

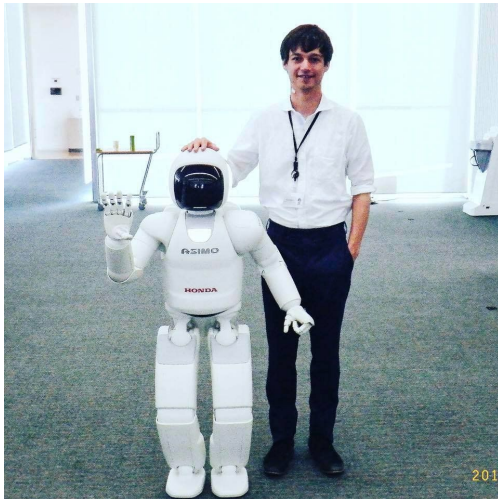
Lastly, we know how to start, operate, and grow businesses. During our time at Facebook, running startups, and Venture Capital, we learned corporate best practices and built relationships with the best service providers, domestically and internationally - from attorneys and accountants, to OTC trading desks, valuation experts, and fund administrators. We always know who to call, and would be happy to share these relationships with the Factom community.



4. TEAM

Chris Garry (@mrrobot0) | Lead Server Architect

3 Years at AWS + Amazon.com, Now At Honda Research Institute Japan



Chris is a senior engineer and researcher at Honda Research Institute Japan, developing AI and robotics. In 2013, Chris took leave from university to join Amazon.com and develop web services for marketplace vendor transactions, where he helped recover \$10M in annual revenue. After completing his degree, Chris joined AWS to help build software that moves petabytes of data from data centers around the world to the AWS cloud. During his time at AWS, Chris helped design, develop, build, test, and deploy this software globally. Chris helped provision and maintain the large server fleets that run the software, implement tools and alarms to monitor software and server performance. He was global on-call for service outages and bugs. He conducted performance analysis

(software profiling, network analysis) and basic vulnerability testing on the software and led service launches into new Asia regions. Chris worked directly with enterprise customers to investigate and resolve technical issues. Prior to Amazon, Chris' focus was in AI research. In his free time Chris enjoys contributing to open source, leading NASA's Apollo 11 open source project on GitHub.

Qiming Fang (@Fang) | Server Architect

2 years at Google, Bachelors & Masters in Computer Science from Cornell



- Qiming is an ex-Google engineer who worked at BlueJeans network, and JP Morgan. He's currently engineer #2 at Booster Fuels (Series B company) wearing many hats within the company.
- He's a full stack developer with extensive experience in Python, JavaScript, and Java and was a key contributor to the Google W
- allet project.
- With his new found passion in Blockchain, he's attending Ethereum hackathons when he's free and was featured on Hackernoon for his article about how to set up smart contracts from 0-100.



Juan Martinez (@jmartinez10) | Server Architect

Bachelors in Computational and Applied Mathematics from The University of Texas at Austin



- Juan is skilled in Mathematical Modeling, Python, and Machine Learning. He's an entrepreneur with a Bachelor of Science focused in Computational and Applied Mathematics from The University of Texas at Austin.
- He has held multiple research positions such as building automated trading systems at The McCombs School of Business, where he would maintain databases allowing him to leverage positions in the portfolio.
- He also helped develop a new Parallel Computing Architecture at the Texas Advanced Computing Center.

Henry Liu (@Henry Liu) | Community Growth & Marketing

2+ Years at Facebook Leading Growth Strategies For Startups In Ecommerce



At Facebook, Henry advised high profile VC-backed growth stage business executives to reach profitable/sustainable growth on Facebook & Instagram.

- 15+ success stories, some of which have been featured in F8 (Facebook's Developer Conference), Ad Week, and Cannes Lions Festival.
- Managed over 100 businesses and \$150M+ in ad revenue (\$450M+ in e-commerce sales).
- Member of the hiring team, mentor, and sole trainer for Ads Auction & Delivery for new-hires.



Mark Thorsen (@markthorsen) | Business & Financial Operations

4 Years in Venture Capital, 5 Years in Finance

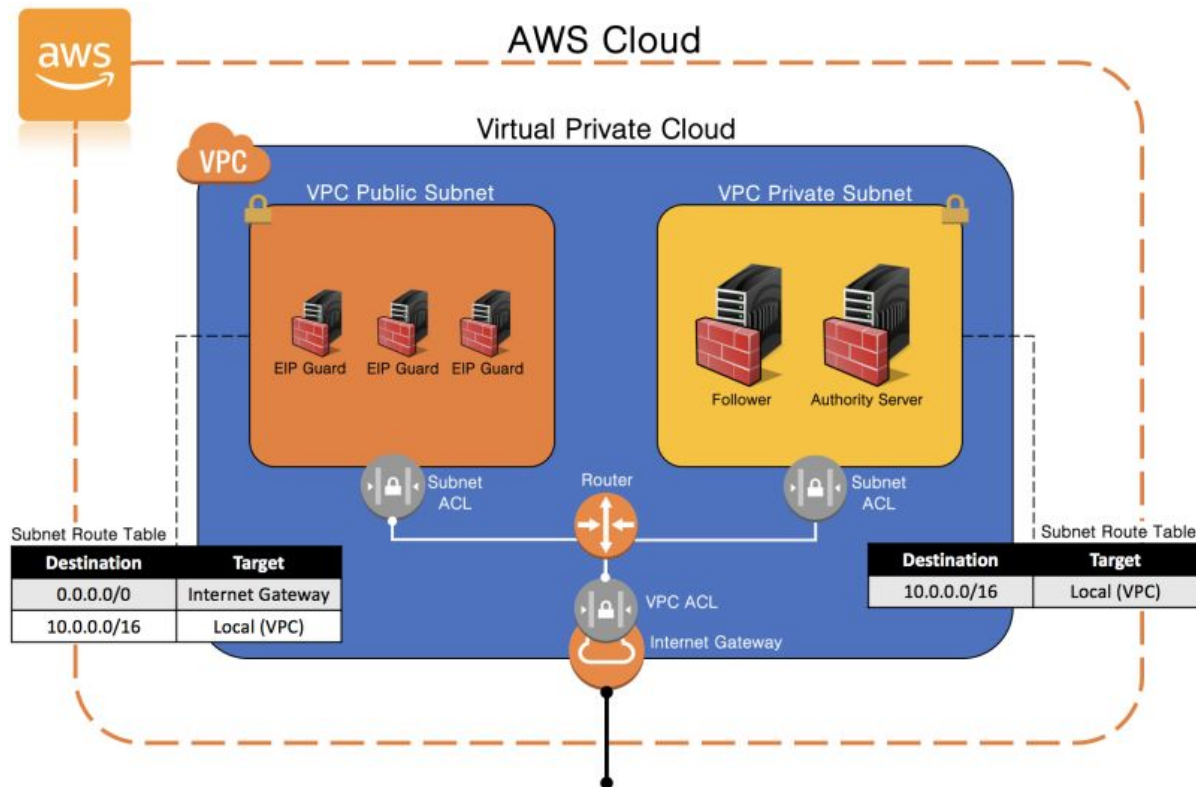


- For the last 4 years, Mark led new investments for the Central Texas Angel Network - the most active angel investment group in the US. He vetted and advised over 1,000 startups across all industries, and helped deploy over \$60M of capital into 120 companies.
- Prior to CTAN, Mark co-founded two tech startups, for which he raised over \$600k in seed investment, hired the teams, and led growth.
- Mark began his career in finance where he managed over \$100 million in daily traded collateralized securities. He graduated college in 3 years with a degree in Economics.
- Mark invested in bitcoin in 2013 and was one of the first members of the Bitcoin Meetup in San Diego.

5. SERVER HOSTING

Federated Reserve currently has two authority servers in AWS Singapore & Seoul participating in the M3 community testnet. We chose AWS because of our knowledge of the service, coverage, support, and to guarantee the 99.99% availability critical to the Factom network. Our authority servers are running on Amazon Linux with kernel optimizations specific to the AWS hypervisor to ensure scalable performance at the guest operating system level. Following security principles of least privilege at the OS level, servers are also protected within a virtual private cloud that contains both public-facing and private subnets for guard servers and authority servers, respectively. Every instance is behind both its own dedicated firewall and the network firewall, where we log and alarm on network traffic. Federated Reserve is committed to the growth and continuous operation of the Factom protocol, and are able to expand coverage into new regions, especially within Asia, to increase global availability of the Factom network.

Preliminary network diagram:



5.1. MAINTENANCE

Federated Reserve is committed to the reliable operation of Factom authority servers. Through adoption of alarms, host and network metric logging and analysis, we aim to keep the service running smoothly. Further emphasis is placed on ensuring our servers are running stable, secure, appropriately privileged software that would not compromise the Factom network. We are also investigating auto-scaling capabilities post-M3 to reduce overall Factom network load in the event of increased adoption.

5.2. CONTINUOUS DEVELOPMENT

We anticipate that as Factom adoption increases and the Factom authority network scales, areas for improvement will surface. However, we aim to preemptively identify weaknesses and improve performance for the community as a whole to mitigate future incidents. This means proactively working with the community to discuss security and network architecture findings as well as software performance. We are eager to contribute our knowledge to make everyone's operations smoother.



6. GRANTS

As mentioned in section 2, should we be elected, we will be deferring a minimum of 50% gross revenue to the Protocol Grant Pool. In order for this community and project to thrive, all contributing members should continue to invest back as an act of good faith and belief in the underlying project and platform. The remaining revenue generated will be directly used to continue development of blockchain security protocols and capabilities.

7. FACTOM COMMUNITY DEVELOPMENT

7.1. INCREASE ADOPTION

We will identify opportunities to:

- Attract new use cases for the Factom protocol through our existing customer base
- Introduce strategic partners from the blockchain community for future partnerships
- Find new customers for Factom primarily through blockchain conferences
- Advise Factom's marketing and attract new members / customers
- Direct traffic and talent to the Factom community
- Advocate for the Factom platform where possible

Conferences

Our team attends a crypto conference at least once a month, and are often invited as a guest speaker. If elected as a federated server, we'll use these conferences as a platform to evangelize Factom to the hundreds, sometimes thousands of attendees of these conferences.

Here is our list of conferences in 2018 which we have attended or are scheduled to attend:

1. Medici Summit
2. Tech Summit
3. The North American Bitcoin Conference
4. Blockchain and Energy
5. Bitcoin & Ethereum Super Conference
6. Anarchapulco
7. Tokyo Accelerator Event
8. POLYCON
9. APAC Blockchain
10. Token 2049
11. Blockchain Conference 2018
12. Italian Fintech Forum



13. Facebook F8 Developer Conference
14. Blockchain Innovations Networking in Dubai
15. Consensus 2018
16. Blockchain & Bitcoin Summit 2018
17. Global Blockchain Summit 4
18. Texas Bitcoin Conference 2018
19. Money 20 / 20 / Coin Agenda
20. Hong Kong Fintech Week
21. Scaling Bitcoin
22. Hyperledger
23. DevCon4
24. Consensus Invest

Content Marketing

Henry, one of our core members was a top advisor to CMO's at Facebook where he specialized in helping brands scale their audiences, and he's happy to help advise Factom on the same. Additionally, we have close relationships with a tech writer at Huffington Post, community organizers in Europe that led community development for Polymath, and content creators in China who run the country's top ten WeChat groups and top ten crypto media sites.

Partnerships

We are founding members of the Silicon Valley Blockchain Society (SVBS). This is a global group of institutional investors interested in supporting projects that advance blockchain technology and decentralize major industries. Today, SVBS has 3 chapters - San Francisco, Los Angeles, and Austin (which we're personally launching in May) - with plans to expand to New York, Europe, and Asia later this year. The organization currently has over 200 members who are decision makers at large corporations in major industries, such as banking, finance, insurance, and healthcare, who we could help educate about the benefits of using Factom's data validation layer.

7.2. CONTINUED SECURITY DEVELOPMENT

Just as the Factom project will continue to evolve overtime, we will continue to develop new methods, procedures, and tools of our own to better foster security among the community.

7.3. PERSONAL SECURITY RESOURCE

For those in the community who are holding FCT and other cryptocurrencies, we want to help protect their assets and establish personal security best practices. We are committed to sharing our standards and practices for cryptocurrency security with the Factom community.