Project doc, team invite, BYOID.net website, youtube videos. See also RChain noob log BYOID mattermost invite, add your notes below.Regular open identity meeting Saturday 11am NY time in https://zoom.us/j/6853551826
BYOID coop meeting 11am EST same place Tuesday and Saturday..

2018-10-17

- Dan on rchain identity https://youtu.be/UWhv6dtwq0k
    - Links in rchain-js channel

2018-10-16

https://youtu.be/RKotaF2jP7w

- What to you hope to get out of this meeting?
    - Jim: people engaged in an activity at least two hours a week
    - David: understanding of job description of directors/stewart
        - Engaged in at least one activity in scope or action items at least 2 hours a week.
        - How to participate
        - Channel lead actor responsibilities.
    - Valentine:
        - how we hope to achieve our aim in this project
            - Peer to peer and org to org cooperation
    - Owans: understand byoid
    - Chocksy:
- When to launch
    - Essential roles filled
    - Website in shape
    - Social ledger bootstrapped
- Review prior log and insert topics here
- Peer to peer cooperation, engagement in one cooperative activity 2+ hours weekly -> cooperation at scale
- The three horizons and 5 systems that interconnect them? h3uni.com
    - Activities supported today in rchain within BYOID scope include the integration of
    - rchain coop membership identities,
        - github accounts, (dckc)
        - google, (dckc)
        - discord (dckc)
        - Mattermost (jim, joachim, gary)
          to the extent people are engaged in the above
    - Our first milestone is to organize any of the activities we are already doing and then incorporating them into our #graphql self-sovereign stack and the social ledger.
    - Major milestones for the rchain community are @RChain Id Springboard (Alpha) delivery, DID directory on rchain, LifeId. For DigLife the priority is Cloudron and Mattermost identities then social ledger integration.
    - It is hoped we find enhagement for Holochain, Sovrin and Solid identities.
    - RChain EU identity provider list
- Social ledger

2018-10-13

David, jim

- Zoom host key
- Nigerian VR on RChain cooperation
- Stewards
    - Like directors stewards allocate tokens to activities but are not directly engaged in coop governance They steward certain activities the coop is engaged in but are not regularly engaged in overall coop planning and operations.

2018-10-12

Brent, jim
Worked on docs
BYOID Cooperatives current state
Declaration of rights?

> Declaration Of Interdependence
> Social contract
> https://en.wikipedia.org/wiki/Hague_Conventions_of_1899_and_1907

Distribute some eth with byoid to directors/ or pay some meetings etc in rhoc or eth.
Suhhestion box

2018-10-09

JIm, David,Owans, valentine: video https://youtu.be/DgU_4QCC-Ws

- Jimscarver: This is a rebooting of the BYOID, a cooperative independent of RChain. It is solving the same issue of identity.

2018-10-02

- 1st draft of BYOID.net website
- Token economics added to BYOID Cooperative doc
- BYOID video script

2018-06-23

- Identity as a chain of claims article, facebook discussion
- UMA2.0 OAuth2.0 spec

2018-06-12

- RChain GDPR compliance -
    - not a priority until RChain become a utility., ask Amaka
    - Ask for forgiveness

2018-05-06

1pm EST Brent, Akshay, Jim

- Fair compensation of collaborative learning work studies
    - Colony.io?
- How to recruit for node.js self sovereign user agent tech stack. And php social ledger and bounty system prototypes.
    - Training through The Blockchain Network and Blockchain Hub
        - Belts?
    - Workshops through DubsTech/Blockchain Society
        - Lots of students already proficient in Node.js/PHP
            - Products won't be built in PHP; just prototypes
        - Ethereum/GraphQL Training - incentive in and of itself
            - Onboard to bounties and social ledger (PHP)
    - Coaches specifically for Apollo Node.js Server and GraphQL Technologies
- How to spend our limited resources to bring value to the byoid token.
- Style guide - google
- Standardized tools, processes
- Getting grants
    - Nvest/Blockcelerate?
    - ICOs?
- Byoid coop - leadership void
- Thoughts on https://www.diid.io/?

2018-05-05

10am EST: Jim, John

- Olisb on board with tech stack
- Use of github, rchain bounty system, future byoid tokens https://github.com/DigitalLifeCollective/byoid
- Onboarding developers? Catalysts.
- Release social ledger prototype on github,
    - Licence (MIT / Apache)?
    - Website notice for development volunteering: skills Node.js, GraphQL, Vue.js, React, Angular, decentralized programming (Holochain/RChain/Etherum/Solidity), Firebase/NoSQL, ChatBots, might be crypto reward opportunity

11am EST: john, jim, kit

- Open:2018 in London. 26-27 July: https://2018.open.coop, RChain presentation

2018-04-28

Johng, amaka, jim

Diglife Gdpr doc comments? rchain needs similar

- RChain uses a mailinglist server, Stripe for payments, and collects identity info (id, photo), as well as Google Analytics on certain sites. RAMs use Google Docs and often Gmail.

GDPR cookie JLINC labs - cooperation offered, people to help working on standard?

Consent Management Providers
https://www.iab.com/news/iab-europe-releases-gdpr-transparency-consent-framework-public-comment/
https://github.com/InteractiveAdvertisingBureau/GDPR-Transparency-and-Consent-Framework
https://mitmedialab.github.io/Consent-HackDay/ hijacking gdpr cookie with chrome plugin idcommons

https://www.civicuk.com/ permissions example

2018-04-21 Open identity meeting (video)

Jim, John G (DigLife Collective), Rao, Leah, Amaka (RChain), Gary, Chris B (Sovrin, lifeID), Kit (RChain), Darryl Neudorf (Reflective Ventures - Resonate music ecosystem with reputation and privacy)

Self-sovereign user agent tech architectures

DigLife
DigLife Social Ledger circles view

Introducing RSpace (RChain storage layer) by Nash Foster

Refer to video for discussions with Chris Boscolo from lifeID and Darryl Neudorf from Resonate

Chris: How do we collaborate to move things forward?
Requires storage and operations in a self-sovereign way using smart contracts, which RChain is not yet ready for

Next steps for collaborating with:
lifeID
Resonate
Holochain

Chat
10:59:45 From planteater : https://www.gluu.org/pricing/
11:00:01 From planteater : https://aws.amazon.com/cognito/
11:02:50 From planteater : https://auth0.com is what the BYIOD co-op will start with in order to get up and running quickly so we can concentrate on the client side and getting the back end to the front end built first
11:03:22 From planteater : The RChain co-op can use Gluu, but that requires more resources to maintain
11:05:44 From John Grant : https://auth0.com/docs/compliance/gdpr
11:11:14 From John Grant : joachim - DigLife GDPR talk: https://www.youtube.com/watch?v=5C8Ox...
11:38:05 From John Grant : https://www.diglife.com/
11:44:10 From Jim WHitescarver : https://divvydao.org/diglife/webhooks...

12:29:32 **From kitblake : Lapin said Resonate wants to use the bounty system, not sure what the status is..**

2018-04-21 BYOID membership cooperative

Jim, John G, Rao, Leah

John G. suggested starting with Auth0, a commercial product but the best of the best and starting with it would allow us to focus on the client so back end of the front end can be built first, as described in Self-sovereign user agent tech architectures

Not to be shared publicly:
John has used Auth0 as a kind of fallback - we need an auth provider and need it now, rather not do in-house because of risks of being hacked. Not using for public-facing
Can use their db to store user names, pw, and metadata
Uses MongoDB
For each client there's a separate account (could consolidate them)
Tie in with other auth providers like Google, github
Can be slow
Brand Auth0 has begun to gain traction and people trust it --- clients with rigid security policies
Use webhook but users ends up logged in twice
Everybody is using Google, so no security issue
Auth0 + Google works
Auth0 essentially provides the db to manage the things people worry about, like passwords
Pricing model based on active users rather than registered users (bot attacks?)
In addition to being a wrapper for OAuth 2, provides anti-fraud protection, user email confirmation and other little things like MFA by text and Google Authenticator
Google has built-in fraud protection

Rao asked about Gluu, having something anonymous and secure for 1000+ users and providing RChain member portal access

Recording starts and Jim explains the intention behind getting started with Auth0 so can focus on client development and bring something to users sooner. Auth0 has easy db migration and makes it easy to move off to another provider later

Auth0 allows for a lot of customization
$13 per developer account

https://gluu.org/pricing
For member portal and anonymous secure, RChain has resources for gluu

What BYOID develops can be passed on to RChain

BYOID: don't want to use resources for maintaining Gluu right now so can focus on faster development
Gluu: No UMA mentioned explicitly (Rules and hooks?)
Could use UMA templates in rules

Auth0 to get up quickly so back end of the front end can be built first
Note: AWS Cognito is big competitor to Auth0, also provides SAML support; have B2B and B2C

Amaka -- in terms of processor (e.g., Auth0) and controller (e.g., RChain), the controller has liability

Rao -- what kind of responsibility can we get processor to take responsibility for? Would having servers in Europe make GDPR compliance easier?

Auth0 GDPR compliance
DigLife GDPR discussion

Also need to comply with HIPPA (health care info privacy)

Suggested agenda for next meeting:
Jim explain the problems people have with understanding the self-sovereign stack, backend relationship with front end
Self-sovereign user agent tech architectures

Jim review work on Auth0 with John G and Raymond
Review the thoughts about co-op structure from 2018-03-26 meeting and 2018-03-31_meeting with those who weren't there
How do we attract and onboard members?
Can we start operating as a co-op before we have legal status?
    Can we mint tokens?
Briefly summarize the legal entities possibilities/issues
Discuss, experiment with and evaluate usefulness of Wardley maps for the BYOID co-op
 Wardley maps
    Crossing the River by Feeling the Stones
Discuss a new norm: self-deprecating comments are deprecated
How will we measure progress?
Open discussion

If time allows or for next meeting:
Discuss adopting collective intelligence best practices
Discuss if/which norms of calm tech we want to adopt for the co-op

To Do
What's the most effective way to work with lifeID?

Go through DivvyDAO channel and list the BYOID videos
Simplify things for onboarding non-tech users
Additional resource list for tech people

2018-04-17

- Matrix.org/XMPP RSS use jitsi xmpp and webrtc stack? Bridging
- Stack -> governance discovery
- UMA graph stitching and sudo token permissions
- Using Auth0 allows us to focus on clients right away and adopt their api interface for our own later, All the user data is exportable enabling transfer of identities from one idp to another.
- Clients: github, Mattermost, Discord, Google

2018-04-16

- Github Issues?
- Certified OIDC provider, Auth0, user management video,
- Self-sovereign user agent tech stack

2018-04-14

- Automated process restrictions/terms, bot restrictions
- Research co-op options: Florida coop? Washington state? Germany? Gibraltar? Member-Managed LLC?
    - In an LLC, managing members are exempt from securities law requirements, but passive investor members generally are not. Ref
        - Kit on platform cooperative model: https://2017.open.coop/about/
        - https://medium.com/resonatecoop/about-platform-cooperatives-and-the-investor-problem-3d76c47b2e05
          (^^ From 2015 and not entirely relevant to RChain but it elucidates a platform cooperative. The author is the founder of Resonate cooperative and is involved with RChain now)
- Member benefits
  From kitblake pasted from RChain discussion on RChain co-op member benefits
  What are the benefits of joining the RChain Cooperative?

  Members can:

  Attend and vote at annual and special membership meetings.
  Elect the Board of Directors.
  Participate in Co-op Governance.
  Participate in the Bounty/Rewards system.
  Access the members-only channel on Discord.
  Get early access to offerings by Co-op partners.
  Have the opportunity to contribute to the future of the world – technologically.

- BYOID Co-op benefits
  Member-only channels
  Participation in rewards system
  Voting
- Get commitment from 8-10 people
- Onboarding spreadsheet with prospective members
- Agree on starting norms -- see
- Develop FAQ and also enable every member of the group to be able to answer the common questions that come up in conversations about sovereign identity and BYOID
- Have a table that shows the difference among different groups working on web identity on important issues
- Make clear that this group is more about educating ourselves and learning together about sovereign id the issues and proposed ways of addressing them
- Pull together educational resources in a page
- Make clear what are the basics we agree would be beneficial for most people who are onboarding
- Have a separate resources page with
  Kayila article
  Revocable claims
  Chris Boscolo -- Bill of rights and the article he references there

Action items -- needed for next week:

Get attendance of as many people as possible next week:

If people can't attend Saturday at 10:00 or 11:00 AM EST, invite them Tuesday at 10:00 AM EST

Jim - yes
Gary - yes
Kit - yes
Leah - yes
Raymond from Holochain - Jim contact
Chris Boscolo from Sovrin and lifeID - Jim contact
Rao - yes
William Whitescarver - Jim contact
Allen Francom - Jim contact
Jeff - Jim contact
Philip Sheldrake - Jim contact
Kaliya - Jim contact

Amaka - Leah contacted
John G - Leah contact
Gurinder - Leah contacted
Brent - Leah contacted

HJ -
Patrick -

Have a technical discussion to create a collaborative document about technical stacks, areas of agreement and disagreement and next step everyone consents to (GraphQL?) Raymond and John concerned about the overhead, security, and use of non-standard tools
One tension: Common approach is to try to get all info in one place. JIm: not possible; identity is everywhere, and we need to tie into all the different sources. Anything an API can do can be mapped to GraphQL

- Jim
- Raymond
- John Grant
- Chris Boscolo
- Gurinder
- Rao

Optional action items:

Get familiar with Wardley maps, DigLife map
- Crossing the River by Feeling the Stones

Get familiar with Ark Persona
Get familiar with Pillar and Pillar GDPR project, https://ont.io/ https://www.bridgeprotocol.io/ ?

Suggested agenda for next meeting:

Review the thoughts about co-op structure from 2018-03-26 meeting and 2018-03-31 meeting with those who weren't there
How do we attract and onboard members?
Can we start operating as a co-op before we have legal status
- Can we mint tokens

Briefly summarize the legal entities possibilities/issues
Discuss, experiment with and evaluate usefulness of Wardley maps for the BYOID co-op
Discuss a new norm: self-deprecating comments are deprecated
Open discussion

If time allows or for next meeting:

Discuss adopting collective intelligence best practices
Discuss if/which norms of calm tech we want to adopt for the co-op

2018-04-02/05 VRM day and IIW26 updates

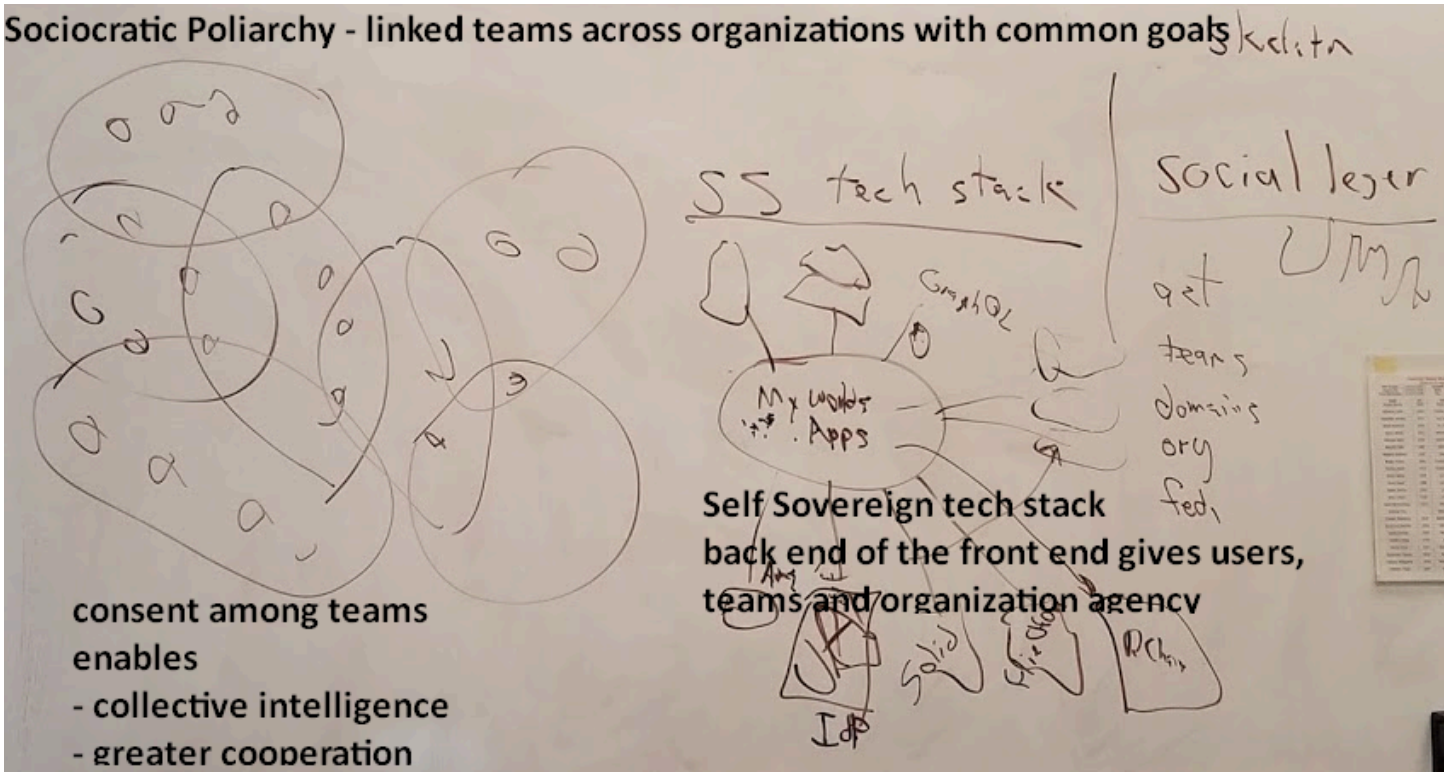
https://cyber.harvard.edu/projectvrm/Cooperative_Work enigma
Identity bill of rights (Chriss B)
Code grant rather than implicit grant for SPAs (single page apps) best practice
JLINC labs vendor com protocols?
Mydata, Digime Jim Pasqual (interoperability), datavest coop Rob Stone
- Datavest Partners with Digi.me to Help People ... - Business Wire

Openid scope in OAuth2, borrowed SAML business contract and form types
Agent communications, from, to, proof, payload.
Json web tokens, linked data, JOSE signatures
Consent Receipt Specification - WG - Consent ... - Kantara Initiative GDPR

Loom network, plasma blockchain
cHRISTOPHER Allen, rebooting the web of trust http://www.lifewithalacrity.com/
Robert Steele rober.david.steel.vivas@gmail.com

Cooperating among Communities owning interoperable identities
Day 3, Session 1, Room H, Jim Whitescarver

Our communities want to respect the privacy of our members and have a single sign on for all the tools they use. We want our identities interoperable between our communities. Each member and/or the organization can be onboarded to using tools for self soverency available today.



Potential of a non-profit BYOid cooperative among communities creating trustworthy identities in teams and organizations from the bottom up such that they could be trusted by by federations and national identity ecosystems

2018-03-31

Jim, Leah, Felix, Kit, Mao

Discussed the need for working groups to share knowledge
Worked on Jim's IIW presentation and who to meet with
Welcomed Mao to the group and explained a little about the BYOID co-op

Next Week: brain dump by Jim of IIW experience

- IIW presentation

- Why an identity co-op?
  - Why is a new organization needed?
    We need these kinds of organizations to keep up and keep learning as we move into new social and economic systems. It's too much for anyone to learn on their own, even with the resources of the web

    Too many siloed projects -- need a connecting organization

  - Is a co-op the best structure?
    Learning to be part of a collective is a new type of learning, a new way of being and interacting. This mirrors the possibilities and channels that are created by distributed, decentralized technologies and the types of cooperation they enable

    You can only have a self-sovereign identity as part of a cooperative group where there is responsibility and governance

- RChain, Holochain, Diglife cooperation
- Recruit Doc Searls as a BYOID co-op advisor
- Who should I talk to
  - Sovrin
  - lifeID (Chris B involved with both)
  - Pillar and 20/30
  - Ark Persona
  - Civic
  - SelfKey
  - NEO (see Blockchain Brad Youtube channel for identity connection among NEO, Elastos, Ontology, TheKey)
  - Ontology (separate blockchain from NEO, but work together)
  - TheKey (related to Ontology)
  - val:ID
  - Bridge Protocol
  - uPort
  - Omisego - authentication for national ID program in Thailand
  - Hyperledger Fabric
  - Pithia identity working group is launching now with five organizations:
    - lifeID
    - NuID
    - TrustedKey
    - Sovrin
    - Verif-y
- Other possible partners
  Blockstack
  Nebulas (Nebulas Rank)
  Elastos Smart Web - ID registration
    Authenticate user ids, application ids, machine ids
    "Key features of the **smart web** include the virtual machine, runtime environments and trust zone, provided by **Elastos** and Bitmain, consensus provided by **NEO** and **KYC provided by Ontology**."
  Banyan Network

ICON
Loom Network
Rootstock
Ethereum Blue (cybersecurity)
Patrick McCorry's Open Vote Network
MyCryptoWallet (Taylor)
Lending platforms (SALT, Celsius, Nexo)

2018-03-26

Divvy open community repurposed
Jim, Brent, Johng, Leah

- IIW talks
    - Why not form a self-sovereign identity cooperative
    - https://diglife.com/why-a-cooperative/
    - http://cultivate.coop/wiki/Reasons_to_start_a_cooperative
- VRM day talks
- Principles of Calm Technology: https://calmtech.com/
- forming the BYOID Cooperative
    - https://medium.com/wardleymaps

John, Jim, Brent, and Leah discussed some reasons for a co-op structure for self-sovereign id solution (and collective groups in general)

- Learning to be part of a collective is a new type of learning, a new way of being and interacting. This mirrors the possibilities and channels that are created by distributed, decentralized technologies and the types of cooperation they enable
- You learn by doing, but barrier to entry has to be low and gamification will keep people engaged as they learn by participating
- You can only have a self-sovereign identity as part of a cooperative group where there is responsibility and governance
- **John commented that we're moving into a precariat where we need these kinds of organizations to keep up and keep learning as we move into new social and economic systems. It's too much for anyone to learn on their own, even with the resources of the web**
- How do we learn to cope with and function in an economy of tokenized economies?
- How do we learn to cope with and engage in the economy wherever it goes?
- Brent: we need more civil[ish] discourse, rational or irrational; try to acknowledge biases
  Have the debate rather than be subject to a controlled narrative

- We need to understand each other's communication styles and what we're comfortable with, individual and cultural
- How do we make decisions? It's difficult to even make decisions about how to make decisions

- Also need to be aware of and work with different thinking styles. For example, Jim is an abstract thinker. Many people need diagrams, and Jim has found he's able to get something out of diagrams too even though he wouldn't choose to use them on his own

John: suggested we look at Wardley mapping to increase situational awareness; good for value chains, policy and strategy

https://medium.com/wardleymaps
Look at the methodology, not the specific application

Unsettled: the usefulness of sentiment analysis
Pulling out topics and terminology was discussed

Jim: sociocratic polyarchy and the communication within and among teams and organizations is a stumbling block

We discussed the need for a guide or facilitator for each group, and liaisons with other groups
Brent will act as liaison with Ark and possibly with Pillar

Brent, study qroup, debate, control of PI https://kanboard.org/ alternative to trello

Discussed Pillar and 20/30

Action items:
Get familiar with Wardley maps
Crossing the River by Feeling the Stones
Get familiar with Ark Persona
Get familiar with Pillar and Pillar GDPR project, https://ont.io/ https://www.bridgeprotocol.io/ ?

Suggested agenda for Saturday meeting:
Review the thoughts about co-op structure from Tuesday meeting with those who weren't there
Discuss, experiment with and evaluate usefulness of Wardley maps for the BYOID co-op
Discuss a new norm: self-deprecating comments are deprecated
Open discussion
If time allows or for next meeting:
Discuss adopting collective intelligence best practices
Discuss if/which norms of calm tech we want to adopt for the co-op
Ask representatives from Sovrin, lifeID, uPort, SelfKey, Civic, OMG, NEO, Ontology, Nebulas, Elastos, Banyan Network, ICON, Decred, Celsius, Loom Network, Open Vote Network to join? Many other possibilities...

2018-03-26

Jim,

- Use of our did-node-oauth2-server for basic oauth supporting DID discovered authorization token creation and management
  - git pull `https://github.com/DigitalLifeCollective/byoid.git`
    - https://alexbilbie.com/guide-to-oauth-2-grants/
    - Adding necessary grant types
  - git pull
  - npm install

    - `node_modules/nodemon/bin/nodemon.js server.js`
- Install ReactQL CLI on your machine via sudo npm install -g reactql
    - see rchain noob log
-

2018-03-24

- 10am est Sat. meeting repurposed BYOID co-op (per Amaka request)
- Sociocratic polyarchy structure slide
- Leah's Sampling of crypto projects, add hashgraph/DAGs, comment etc.
- Byoid mattermost, research channel added, /dig doc [title](link) added
- Activities for IIW? Topics?
    - Why not an identity cooperative?
    - VRM day? Activity
        - UMA+VRM API GDPR solution agnostic standard interface enabling interoperability with self-sovereign identities and (virtual?) federation of solutions
    - Self sovereign tech stack

John's Self-Sovereign Identity (SSI) Summary Statements

https://www.owndata.network/
https://github.com/owndata
https://www.owndata.network/files/Owndata_Whitepaper_v1.1.pdf

sharing qraphql components in self sovereign back end agnostic
GraphQL at massive scale: GraphQL as the glue in a microservice architecture

Exploring blockchains and beyond, tokenized economies, identity and governance slide presentation

John:
https://en.wikipedia.org/wiki/Paxos_(computer_science)

Id projects:
https://www.benzinga.com/pressreleases/18/03/p11407620/lifeid-partners-with-pithia-and-the-rchain-cooperative-to-develop-the-
https://selfkey.org/
www.thekey.vip

John:
Pattern: Backends For Frontends
https://samnewman.io/patterns/architectural/bff/
A better alternative GraphQL would be gRPC and wasm ;-)

Jim:
https://www.reactivemanifesto.org/

2018-03-21/22

Raymond, jim, david
https://github.com/oauthjs/node-oauth2-server
https://www.npmjs.com/package/node-oauth2-server
npm install oauth2-server
https://github.com/DigitalLifeCollective/byoid git clone, npm install, node server.js and it should run

Cannot find module express? Npm install express

```
curl -X POST -v -H "Host: localhost:3000" -H "Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW" -H "Content-Type:
application/x-www-form-urlencoded" -d "client_id=mobile_android&client_secret=secret&grant_type=password&username=d
http://localhost:3000/oauth/token
```

https://www.digitalocean.com/community/tutorials/how-to-install-mongodb-on-ubuntu-16-04
https://github.com/deepakaggarwal7/react-social-login
https://www.npmjs.com/package/social-login
https://forum.mattermost.org/t/solved-auto-login-site-integration/3059/4
https://w3c-ccg.github.io/did-spec/

2018-03-20

https://www.digitalocean.com/community/tutorials/how-to-install-node-js-on-ubuntu-16-04

1. Joachim successfully installed on native windows 7 (native/command prompt). DO graphql Server updated.
2. Server.js, new format in byoid log https://github.com/kriasoft/react-starter-kit
3. Next steps with graphql
    a. Join issue https://github.com/rchain/bounties/issues/254
    b. Get new development environment working on personal pc
    https://www.npmjs.com/package/node-oauth2-server
    c. DID directory, mongodb?
    did:byoid:diglife/rchain/holo/github/facebook…,community:domain:channel:activity
        i. E,g, did:byoid:rchain:mattermost:collective:welcome:greeter
        ii. did:byoid:email:user@domain
        iii. Meta:did:...? Separate database
    d. Mattermost authentication (import OpenAPI (fka Swagger)
        i. https://github.com/graphql-binding/graphql-binding-openapi
        ii. https://medium.com/@raxwunter/moving-existing-api-from-rest-to-graphql-205bab22c184
    e. Review https://github.com/chentsulin/awesome-graphql tools
    f.
4. Hybridauth - php oauth+social login, use for social ledger?
5. Oauth provider for raymond's use case

    a. Log in with any whitelisted openid/social login provider and be given an openid good for all connected services (like zapier account),
    b. Automated enrollment in mattermost (etc.)
6. Email address identifies unique users for now in did discovery. Need to consider different personna email addresses for byoid aggregated account

2018-03-17

Raymond, amaka, planteater, john, kit video https://youtu.be/_osSftwUzh0, part 2 BYOID https://youtu.be/rSzDtHogK_M

Review last week issues
BYOID coop
Ray on board for graphql structured login to mattermost from anywhere. Mattermost addon team, cross community work study? 3pm EDT with raymond
Evaluate http://swellrt.org/, adds wave and matrix (jabber/IRC)
https://grpc.io/

Tell Me Who You Are – ConsenSys – Medium Vinay Gupta

Server.js

```
import express from 'express';
import { graphqlExpress, graphiqlExpress } from 'apollo-server-express';
import bodyParser from 'body-parser';
import compression from 'compression';
import { ApolloEngine } from 'apollo-engine';

import schema from './data/schema';

const GRAPHQL_PORT = 3000;
const ENGINE_API_KEY = 'service:aviationhacker-apollo:2wWrAHZxxxxx'; // API Key

const graphQLServer = express();

// Enable tracing and cacheControl in Apollo Server
graphQLServer.use('/graphql', bodyParser.json(), graphqlExpress({
  tracing: true,
  cacheControl: true,
  schema: schema
  // ... other options
}));
graphQLServer.use(compression());
graphQLServer.use('/graphiql', graphiqlExpress({ endpointURL: '/graphql' }));

// Initialize Engine with an API key
const engine = new ApolloEngine({ apiKey: ENGINE_API_KEY });
```

```
// Replace app.listen() with engine.listen()
engine.listen({
  port: GRAPHQL_PORT,
  expressApp: graphQLServer,
});

  console.log(
    `GraphiQL is now running on http://localhost:${GRAPHQL_PO)
);
```

2018-03-19

2018-03-10

1. Byoid coop? Draft in progress, reflective ventures, rao
2. Self sovereign stack prereq to self sovereign identity slide https://rest-layer.io/
3. Rchain id working group, chris at lifeid coordinating
4. https://wiki.hyperledger.org/groups/identity/identity-wg
5.

2018-03-03

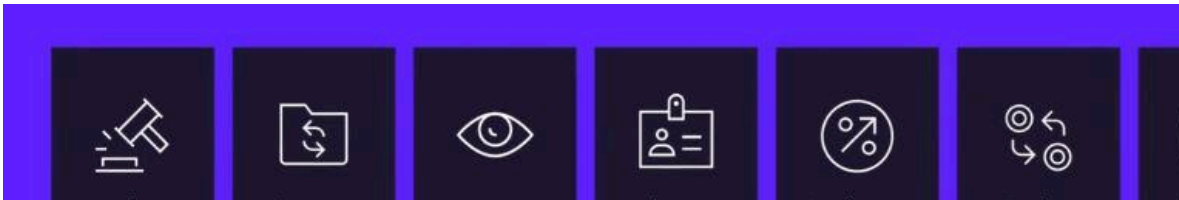
1. Ebook
2. Oauth - hybridauth
3. Arch - graphql
4. Work studies, collaborative learning while delivering work product, working is playing, is learning
    a. Emphasis on working together and working out loud
5. Byoid coop?
6. http://www.internetidentityworkshop.com/
    a. http://cyber.harvard.edu/projectvrm/Main_Page#About_VRM

2018-02-24

Plan for the Sovereign Identity Awareness Project (formerly the ebook working group) meeting

For this week, please see this document which has short videos and articles about some of the major projects.
Sampling of crypto projects

Broad categories:



NEXT WEEK (please change as you want):

1. Discuss some of the major decentralized projects
2. identify strongest products and solutions and under-addressed areas
3. Amaka: More detailed presentation on the state of current identity solutions and how to avoid getting stuck or impeded in progress by apparent roadblocks
4. Gurinder, Rao, and John add to Amaka's comments about identity problems and solutions
5. General discussion on topics brought up so far
6. Rao and Jim talk about discussions with LifeId
7. Review action items from previous meeting
8. Agree on focus of the next meeting

   Potential focus: identify three market segments and channels of communication for each
   - Discuss the big area outside of crypto space interested in privacy and security
   - Identify the three main problems to solve (e.g., privacy, decentralization, need for money[dormant])
   - Identify the market segments for those problems

     Should at least one of these deal with organization ID?

     Should one of these include companies that have to comply with GDPR for their customers/clients?
   - Identify the groups within those market segments to focus on (e.g., S7, DigLife, DAO builders, RChain, Holochain, Ethereum, freelancers)
   - Identify the best way to reach those groups (media and messaging)
   - Check in with co-op and holdings company to see if they agree with these priorities and the reasoning behind them
9. Come up with action items for the week

   Potential action items:

   Work on implementing anonymous member voting

   Jim, John, Amaka: prepare to discuss the big area outside of the crypto space that is concerned about identity and privacy issues

If time allows:

Discuss the major things Ed brought up in the open BYOID meeting on 2008-02-03

Short-term action items are highlighted -- tell Ed which of these we can or cannot do and when

Requirements - Key management, Key recovery for both ID and wallet

Elliptic curve for iPhone, Fido, account abstraction in Ethereum -- all need to be implemented on the RChain platform itself. (Ed asked if this group could help explain, create requirements based on these things)

DID resolution to an endpoint is on top of the RChain platform itself and needs to be implemented by one of the partner companies --

RC may develop new standards but they need to interplay with existing standards.

ID broker sitting on top of RChain can ramp up adoption? DID service discovery is an ID broker? The services could be on RChain or otherwise - HTTP endpoint. Ed- this would be on top of RChain.

Diagram of what needs to be in the RChain platform vs. on top of it.

Coop needs - digital identities for members to enable voting - most important. Uport and/or ERC725/735 needs to be expediently implemented. Use either metamask or uport and start using for it. Jim: important to ensure anonymity in voting, there was one ethereum based solution and some problems with it. Keybase supports many identity aspects, but public. Also possible to do voting outside the blockchain and link back to the items?
https://github.com/stonecoldpat/anonymousvoting

https://jolocom.com/ DID directory etc.
John's diglife GDPR doc
John's self-sovereign doc
Oauth for discord in php?

Before meeting ends:

1. Agree on what will be addressed in the next work session
2. Everyone who has time/is willing will choose a small part of next week's topic to research and give a short report on to the group
3. Get back to Ed on what he asked us if we could contribute to and give tentative time frames (note he asked that member voting be implemented ASAP)

2018-02-10

Sovereign Identity Awareness Project meeting (10:00 AM - 1:30 PM EST) video
Gurinder, Rao, Leah, Johng, Jim, Amaka, Kit, Patrick

https://github.com/oauth-io/oauthd
https://github.com/mozilla-iam/federated_access_proxy

Sovereign Identity Awareness Project working document

After a discussion with Patrick and Kit, it was decided to change the name and focus from a state of identity on the web to ebook to a sovereign identity awareness campaign, which will include multiple types of media -- Steemit articles,Medium posts, videos, memes and Twitter hashtag campaigns.

The group agreed to start by identifying problems, the groups most likely to have known or dormant needs for solutions to those problems, and the channels and styles of communication that would be best for reaching them.

A few major considerations:
Many crypto enthusiasts who are aware of the issues and the existing or potential ways of addressing them, but don't care and are comfortable with trading privacy for convenience
"Take back the internet" groups who are concerns with privacy or identity issues by are anti-crypto
Groups who are concerned with identity issues but advocate radical transparency and are not interested in most privacy issues (though they might be interested in security issues that overlap with identity issues).

New working document created by Jim and Leah, roughly organized into section. It incorporates the needed parts of Ken's taxonomy document and the ebook outline document (both of which remain unchanged)

holochain/nepa self-sovereign identity statement
"Distributed Identity systems allow the discovery of identity services that may be controlled by the user themselves. Self-sovereign identity is enabled by open standards for a distributed identity system that allows every individual to utilize their own trusted identity services to be used for authentication, even if they are the only identity that is served by the service. Decentralized identity may include attestations and proofs such that the user is not subject to any single identity authority. Trusted pseudo-anonymous identities can be built in webs of trust. User Managed Authorization puts the user in control of how their identity may or may not be used."

[This text is for insiders, for outsiders it's impenetrable. An elevator pitch would be a good distillation, but it has to be clear language.
We need to anchor the pitch in things people already know/use (KY/OY).]

John will simplify for a less technical audience.

Key terms:
1. Why (Self-Sovereignty) - Differentiate
2. Benefits

3. Privacy?
4. Safety?
5. Simplicity / Accessibility
6. Scalability
7. Memes

Target segments:
Crypto
technical/nontech

Problems -- who needs these three things that does or could understand and appreciate Sovereign identity:
Privacy and security
Decentralises (S7, DigLife, DAO-builders,RChain)
Dormant need for money (freelancers)

Note . Rushkoff (DigLife) is anti-crypto

Why distributed
Centralized systems

- Corruptible
- Can have cataclysmic failures
- Serve the system, not the user
- Create monopolies
- Impose an interface on you

Action items for weeks of 2018-02-11 and 2018-02-18:

Jim and Rao will begin discussions with LifeId
Leah and Amaka will prepare presentations on a broad overview of the decentralized space in general (Leah) and a more focused review of identity issues (Amaka)
If possible, Kit will join to add his knowledge as well

2018-02-03

Video
Blockchain identity standards:
DID standard
API level standard
Practices http://identity.foundation/

Open source public self-sovereign identity

Imogen Heap?
Mycelia

LifeID - Chris Boscolow?

Ventures - Greg Heiss?

Sovrin - public permissioned blockchain

Requirements - Key management, Key recovery for both ID and wallet
Elliptic curve for iPhone, Fido, account abstraction in Ethereum -- all need to be implemented on the RChain platform itself.
DID resolution to an endpoint is on top of the Rchain platform itself and needs to be implemented by one of the partner companies --
RC may develop new standards but they need to interplay with existing standards.

ID broker sitting on top of rchain can ramp up adoptoin? DID service discovery is an ID broker? The services could be on RChain or otherwise - HTTP end point. Ed- this would be on top of RChain.

Diagram of what needs to be in the RChain platform vs. on top of it.

Coop needs - digital identities for members to enable voting - most important. Uport and/or ERC725/735 needs to be expediently implemented. Use either metamask or uport and start using for it. Jim: important to ensure anonymity in voting, there was one ethereum based solution and some problems with it. Keybase supports many identity aspects, but public. Also possible to do voting outside the blockchain and link back to the items? https://github.com/stonecoldpat/anonymousvoting

From Ed Eykholt to Everyone: 12:32 PM
Wednesday Feb 7th 7pm in Seattle:
https://www.eventbrite.com/e/blockchain-speaker-series-rchain-tickets-42729294470

From kitblake to Everyone: 12:35 PM These were the two (technical) speakers at the Meetup
https://www.aeternity.com/

https://ubiqsmart.com/
https://github.com/rchain/Members/blob/master/CONTRIBUTING.md

- Welcome Amaka Ibeji, Privacy
    - Seattle, gov forum
    - Privacy by default
    - Privacy by design
    - UMA delegation of permissions, guardianship
    - Capability-based security
    - Governance, GDPR
      Amaka:
      Article 4(5) of the GDPR defines pseudonymization as “the processing of personal data in such a way that the data can no longer be attributed to a specific data subject without the use of additional information.”

Amaka: We don't want to worry too much about GDPR compliance issues and potential roadblocks, but rather discuss what the spirit behind the law is, e.g., can someone wake up one morning and decide they want to remove their identity from a particular space

Jim: there is tension between the holonic structure of purposeful transparency and GDPR, UMA and social contracting addresses.

- Rchain cooperation? Meet with Lawrence? Cooperation on standards. Passport
    - Member identity
    - Holdings
    - Ventures
    - provenID
- Holochain DPKI-identity/RChain
- Oauth, hybridauth jlawrence
- DID Directory service discovery
- W3C Verifiable claims
- https://keybase.io/jimscarver proofs?
- /dig id/dashboaed: swagger->json-schema uma api?
- Working out loud, producing work product, social learning
    - Maintaining (curating) /dig
    - Video production - ebook the movie
    - Know yourself ebook
- This time next week? Leah's id solution survey presentation

2018-01-23

Jim, aadi
Installing hybridauth windows10 bash for ubuntu

2018-01-27

JimW, Planteater, JohnG, Rao, Kit, Gary, GurinderJ

Know Yourself Identity ebook

1. John: DID decentralized identity importance
2. Jim: statement of purpose and activity.

    To become enabled in the web service (swagger.io, GRPC.io) and bot ecosystems and integrate with our social ledgers we are first taking ownership of our identities that we can grant our bots the power to act on our behalf. BYOID aims to bring together your permissions from different servers to act as you on all of them. We have started with mattermost and looking for helpers integrating Oauth with discord and github. We have asks for kanboard, gitlab, social logins, telegram and matrix. We are hoping to find collaborators. The BYOID domain is collecting participants here.

    a. Problem statement (near term practical problems we're trying to solve), why and how decentralized and distributes - Ebook effort [guide: Scribe: channel.
3. Reviewing slides from the Identity presentation at the Meetup this week: https://docs.google.com/presentation/d/1nf08KcTQxPsJtSMG5lladm9OILZ9a5kE78P88dERfRc/edit

4. The ID2020 initiative is getting more partners, including Microsoft who will be sponsoring http://id2020.org/partnership/
5. Lightning presentations for RChain Gov conference
    a. Two ways to talk about a project: describe its governance
    b. Id2020 and Chaîne project (blockchain for the UN Paris Climate Accord).

2018-01-20

Know Yourself Identity ebook

JimW, ,JohnG, GurinderJ, planteater, Rao, Kit

Know Yourself, Own Yourself, Own Your Organization - Identity eBook https://zoom.us/j/6853551826

First goal:
Taxonomy section of ebook
https://docs.google.com/document/d/1PX17preGPNrQy9C6_YgNnPloD1I6EdjKwQP_2uR4Ywc

github issue
https://github.com/rchain/Members/issues/139

Project notes
https://docs.google.com/document/d/1Mi1JXoYu6zqQlsm12tIktSKA6FVe9mgpDnrCd-sMY_g

ebook outline
https://docs.google.com/document/d/1rePsjOK6pIfLe_5q6vfr62gkTgkG54TtHaLj0EJZ2g8

https://github.com/rchain/members/issues/139
Lost access to documents (how ironic :)
Focus on taxonomy and then social ledger for jim
Collect resources
Next meeting:
Finish identifying RChain's philosophies of identity and requirements
Review Ken's taxonomy document and start to narrow down what will go into ebook
Come up with next goals and tasks

Open identity social learning work study

- Tampa meetup?
- What is where.
- KYC and unique identities required for governance.

2018-01-18 know yourself

JimW, ,JohnG, GurinderJ, planteater, rao

1. Who can coordinate?
2. Why know yourself, own yourself (UMA, DID discovery), own your organization (VRM) is title
3. Know Yourself - 2018 State of Web Identity for the Blockchain
    a. Github wiki
    b. Meeting moved to sat 10am est
4. Get info from this log into project doc and github

Stephen Paul Kling Let's try to figure out a useful definition of identity.
Manage
Like Show more reactions
· Reply · 1d

Stephen Paul Kling Jim Whitescarver any ideas?
Manage
Like Show more reactions
· Reply · 1d

Jim Whitescarver We have multiple identities. A physical body, a precise location, what we own, a unique perspective in a larger being, how we represent ourselves, and how we affect our world. In Lucius's reactive becoming we are what we do. The social ledger aims to embody all these identities https://youtu.be/XIhyPRpfuYc

Stephen Paul Kling I'm trying to build an abstract definition of identity that doesn't just apply to humans.

Jim Whitescarver Everything has multiple identities. It may have

- a physical being,
- a precise physical or logical location,
- what it owns or controls,
- a unique perspective in a larger being,
- how it represents itself, and
- how it affects our world. (reputation in webs of trust, linked in on steroid)
- In Lucius's reactive becoming it is what it does.

The social ledger aims to embody all these identities https://youtu.be/XIhyPRpfuYc

2018-01-13

JimW, RaoB, JohnG, GaryC, GurinderJ

Gurinder - identity landscape
Must see video! https://youtu.be/jv3BmGGFP7c Fabian Vogelsteller - ERC: Identity - Ethereum London

He doesn't explicitly describe the use case where storing hashes of a claim that can be attested to to can be used such that the claim is not exposed publicly but can be verified by a key given the requester by the user. e.g. 7823572387:country:US;:zipcode:34601
He seems to have covered the other bases well.

Potential topics include

- building on https://github.com/hybridauth/hybridauth for the collective SSO and
- social ledger ID and a look at Ethereum ERC: Identity#725 interface for application in the w3c DID implementation beyond the blockchain and Social Ledger.
- Ethereum EIP 735 https://github.com/ethereum/EIPs/issues/735 is a good claiment interface candidate for Social Ledger /dig id design along with looking at UMA2.0 but EIP735 seems to do the basics. EIP735 is considered part of EIP 725.
- Gurinder - identity landscape
- Gary - https://about.mattermost.com/group-messaging/sso/, DecStack (Social Ledger Platform), BrightId
- Rao - ID wallet doc, service discovery, full universal id version .02
- John Grant - Freetrust, solid, single sign on operation?
- Jim HybridAuth allows BYO, https://hybridauth.github.io/,
- Distributed Public Key Infrastructure on Holochain -> https://github.com/Holochain/dpki
- https://jwt.io/
- Onboarding people to identity
- PHP not attracting programmers? Well known, powerful, quick and dirty. Go and Rust preferred.
- Know yourself, own yourself(UMA), own your organization (VRM).
- GRPC specs to any any language.

Kit - The World Identity Network (WIN), the United Nations Office for Project Services (UNOPS), and the United Nations Office of Information and Communications Technology (UN-OICT) are partnering to launch a pilot initiative that will use the blockchain technology to help combat child trafficking in Moldova. A first in the world, this project is part of a broader effort titled “Blockchain For Humanity”, https://blockchain4humanity.uniteideas.spigit.com/Page/Home
ConsenSys is entering the Challenge with their uPort solution: https://blockchain4humanity.uniteideas.spigit.com/Page/ViewIdea?ideaid=374&pageSize=6&pageNum=0

2018-01-10

Jim Whitescarver, Rao Bhamidipati

BYOID v0.1 diagram

Full BYOID UniversalID description beyond v0.1

Hybridauth, open source social login php library.https://hybridauth.github.io/

Webid, MIT Solid and Dokie.li

2018-01-09 HoloChain Overview

Additional attendees: Raymond Powell (Holochain), Kenny Rowe
video
From rayzer-desktop to Everyone: 01:09 PM
https://github.com/metacurrency/holochain/releases
From Gary Coulter to Everyone: 01:14 PM
Rayzer, I'm not a dev. It will take me a while to get back to the make. We probably shouldn't take up meeting time for this. But I'll take you up in the MatterMost Channel.
From rayzer-desktop to Everyone: 01:14 PM
Oh you are trying to build!
See the link above for a zip file with executables.
From Gary Coulter to Everyone: 01:14 PM
Yes, I will try that! :)
From Philip Beadle to Everyone: 01:19 PM
docker pull metacurrency/holochain
docker run --rm -p 3141:3141 metacurrency/holochain
cd /go/bin
hcdev init "uitest@holochain.org"
hcdev init -cloneExample=clutter
hcdev init -cloneExample=dpki
From QmTAuRmMZcErXXwhq6ivCe8o7ei8nTKLDZXvZUtCRVD1id to Everyone: 01:29 PM
Does anyone have a clutter handle I can follow?
kennyrowe
From Philip Beadle to Everyone: 01:29 PM
try @philt3r as a handle
From rayzer-desktop to Everyone: 01:31 PM
rayzer is a handle
From kennyrowe to Everyone: 01:32 PM
Tue Jan 09 2018 10:15:36 GMT-0800 (PST)
kennyrowe
Hello World
Sat Dec 09 2017 04:33:30 GMT-0800 (PST)
rayzer
meow world!
From rayzer-desktop to Everyone: 01:32 PM
cd clutter
hcdev web
From johngrant to Everyone: 01:33 PM
https://github.com/golang/go/issues/20969
From kitblake to Everyone: 01:36 PM
You can try following kitblake
However I’m not succeeding in following anybody else

I always get Not found
From kennyrowe to Everyone: 01:37 PM
stepping away for a minute be right back
From rayzer-desktop to Everyone: 01:41 PM
http://localhost:4141
From kitblake to Everyone: 01:41 PM
Mine is running on :3141
From rayzer-desktop to Everyone: 01:44 PM
../hcdev web
rayzer
kennyrowe
From kitblake to Everyone: 01:49 PM
I'm on a Mac and in the log I see:
DHT Query with no peers in routing table!
{"message":"hash not found","name":"HolochainError"}
After a restart I see:
NAT: You seem to be behind a NAT that does not speak UPnP.
NAT: You will have to setup a port forwarding manually.
NAT: This instance is configured to listen on port: 6283
From rayzer-desktop to Everyone: 01:49 PM
there ya go
it is true, this thing it says

Turning off the Mac firewall completely doesn't fix the problem. After restart it still says:
NAT: You seem to be behind a NAT that does not speak UPnP.
From kitblake to Everyone: 02:03 PM
I'm also in my own Holoworld :)
From rayzer-desktop to Everyone: 02:06 PM
hcdev init "uitest@holochain.org"
../hcdev web
http://localhost:4141
From kitblake to Everyone: 02:13 PM
It's food time for me
The install worked on my Mac but the UPnP problem didn't get solved by turning off the firewall. I'll pick it up another time. Good luck all!

2018-01-09 12 noon - 1 PM Cross-chain Id

Attendees: Rao, Jim Whitescarver, Gurinder Johar, John Grant

- cross chain identity/transactions - DID directory service discovery / multi-phase commits -> process calculus
- What is concept cross chain identity
    - Discovery of self sovereign identity and attribution proof on any chain, with selective disclosure of information by individual
    - Self-sovereign and cross-chain are two different aspects. Our interest in self-sovereign is to give use control over what information they share with what service

    - Cross-chain = transactions or activities that different identities are involved in. (a) e.g. maincoin, iot accounts, ethereum etc.. accounts for Jim and he may want to transact among these.
    - (b) Interoperations with another person that has multiple blockchain identities
    - BYOID = combine all your identities into a union of identities, not all need to be on blockchains necessarily. = universal identity ?
    - We need to allow control both by service and the authenticator agent -- e.g. I may require 3 factors of identification for something to act on my behalf on the internet.
    - Service discovery allows me to choose whatever identities I want to choose to present. It has broader applications in SL, APIs that control the social object.
    - John: Used OAUTH to offload authentication to the likes of Google. Would help to discuss how this effort fits in / appears in current situation.
    - Adrian Groper ? provided a one person-id = one button install to have a personal server so each person can be their own IDP (each having their own server). Another level is community level server if all members trust the community and its servers. There are solutions from sovereign.org (gives you a self-sovereign identity) and solid.mit.edu (you run this yourself).
- Overlap with and/or requirements from current projects/efforts - Rchain, HoloChain, Diglife etc.
- Scan of current other efforts and how to integrate with / leverage them..e.g. ForgeRock ($84 m funding to do something on the blockchain)
- Is this worth pursuing - no point reinventing or duplicating
- Rao: If the above validation indicates development, Focus on the simplest cross-chain identity solution we can deliver in a very short time (6 to 8 weeks). We should be aware of SL but not get too caught up in it initially.
- Gurinder: We can focus on just providing the Identity layer of SL.

2018-01-06

Jim, Kit, John, George, Jeremy

1. Arch diag
2. Oauth php
3. Rchain, lifeid
4. Know yourself ebook
5. Rchain voting
6. DID directory
7. uPort.me
8. Sovrin.org trust model
9. https://github.com/rchain/Members/issues/41
10. https://github.com/rchain/Members/blob/master/CONTRIBUTING.md
11.

2018-01-04
apachectl start
Apt-get install composer
E: Failed to fetch
http://security.ubuntu.com/ubuntu/pool/main/p/python2.7/libpython2.7-minimal_2.7.12-1ubuntu0~16.04.1_amd64.deb 404 Not Found [IP: 91.189.88.161 80]
E: Failed to fetch
http://security.ubuntu.com/ubuntu/pool/main/p/python2.7/python2.7-minimal_2.7.12-1ubuntu0~16.04.1_amd64.deb 404 Not Found [IP: 91.189.88.161 80]

E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/p/python2.7/libpython2.7-stdlib_2.7.12-1ubuntu0~16.04.1_amd64.deb 404 Not Found [IP: 91.189.88.161 80]
E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/p/python2.7/python2.7_2.7.12-1ubuntu0~16.04.1_amd64.deb 404 Not Found [IP: 91.189.88.161 80]
http://timmyreilly.azurewebsites.net/python-with-ubuntu-on-windows/
sudo get-apt update

2018-01-02

1. https://github.com/fkooman/php-oauth2-client/blob/master/tests/OAuthClientTest.php
2. Missing phpunit running tests/OAuthClientTest.php
3. Composer errors installing phpunit 3.4

2017-12-30

Jim, Gary, Raymond Powell, Kit, Gurinder, Rao
Topics (likely not all items will be completed today - some are future ToDo)

1. Understand Raymond Powell's (Holochain) requirements, use cases and relationship to DID and Directory service
    a. Node.js? javascript?
2. Get Rchain requirements in (Kit Blake?)
3. Explore funding possibilities, including from Holochain, to meet their requirements
4. Explore technical architecture rethink based on the above.
5. Document use cases initially targeted.
6. DID - Social Ledger mapping document (for different use cases? Different persona?).

Raymond: New Earth collective requirements -- build organically and allow it to emerge.
Temporarily centralized means of authentication - across all projects - OAuth or OpenID based solution. Holochain as true distributed decentralized data layer eventually (both groups agree on the distributed and decentralized). Wants to roll out something in the next week or two - OAuth or OpenID service ? Centralized gateway temporarily is OK as long as distributed decentralized can be implemented over time. Holochain core is developed in Golang, apps in Javascript (or any language eventually). Rchain - ScalaJS. As a first step, New Earth want to become an IDP so their ID can be used to log into multiple applications used by the members. Jim says no certified OAuth IDP providers in Javascript?

Architecture Description: Decentralized identity for an entity, in the control of that entity (how does this work for non-individual entities?) . Allows users to choose what they require for something to act as them on the network through UMA2.0. Current OpenID has some centralized service discovery (?) . OpenID does not enforce that you have trusted ID providers, though most individuals have such. e.g.Solid.mit.edu HAE of 1 ? etc. can still leverage OpenID. Holochain brings the trustlessness of blockchain into this conversation. Rebooting the web of trust + IIW (source of OAuth and OpenID) are source of DID. We're currently not building the full decentralized directory right now but a standards compliant DID directory that can be leveraged in a full decentralized world.

Currently we use Mattermost as IDP in our applications, so we need not develop a separate IDP. solid.mit.edu is a potential IDP to use - it supports webID also?

Action Item: Evaluate Express or other node.js based provider for immediate baby step?? Jim thinks there may be good PHP solutions?

Funding: Holo is asset backed currency = backed by computational and data storage .. They want to stay in sync with that. Fund raiser far exceeded expectations .. $2M available now to $10 M with additional raise. $25M max. Ico. would be available. Developer funds may be available. Roll out funding iteration for distributed Distributed decentralized Identity/DPKI is a key initiative in Holochain with funding.
ToDo:
Schedule weekly peer learning sessions with Raymond and other HC resources on HoloChain development, with initial goal of putting DID directory on Holochain.
Rao and Gurinder join Holochain channel on MM to read up on Holochain development docs. DPKI is itself a Holo app on top of HC. Discovering the public key by itself works only if you are entirely in HC?. Initial task -- extend DPKI mixin and app(in the sense it has its own set of nodes etc.) to implement DID to make it work with any other decentralized DID structure, including uport (ethereum), RChain etc. Can we use the DID reference implementation to enable this in whatever is available now? There are a number of DID implementations that even work off of HTTP..
Easy part -- How would some other service authenticate hc id?
Problem - HC app itself may need to make the calls to various like uport etc. Would running Solid on HC make sense? How to make the bridging of various HC apps to DPKI, since it will be most bridged app?

2017-12-28

Jim, Rao, Gurinder. (continued from noob log

1. Update Architecture document
2. Basic DID PHP script with unix file backend
    a. https://github.com/fire015/flintstone
    b. http://morris.github.io/microdb/
    c. Update php https://www.digitalocean.com/community/tutorials/how-to-upgrade-to-php-7-on-centos-7
    d. https://firebase.googleblog.com/2017/10/introducing-cloud-firestore.html
    e. https://firebase.google.com/docs/auth/
    f. https://firebase.google.com/docs/firestore/data-model
    g. https://github.com/firebase/snippets-web/blob/master/firestore/test.firestore.js#L154-L155
    h. https://github.com/GoogleCloudPlatform/google-cloud-php-firestore
    i. https://github.com/googlecloudplatform/google-cloud-php
    j. https://github.com/firebase/snippets-web/tree/master/firestore
    k.
3. PHP OAUTH login to mattermost

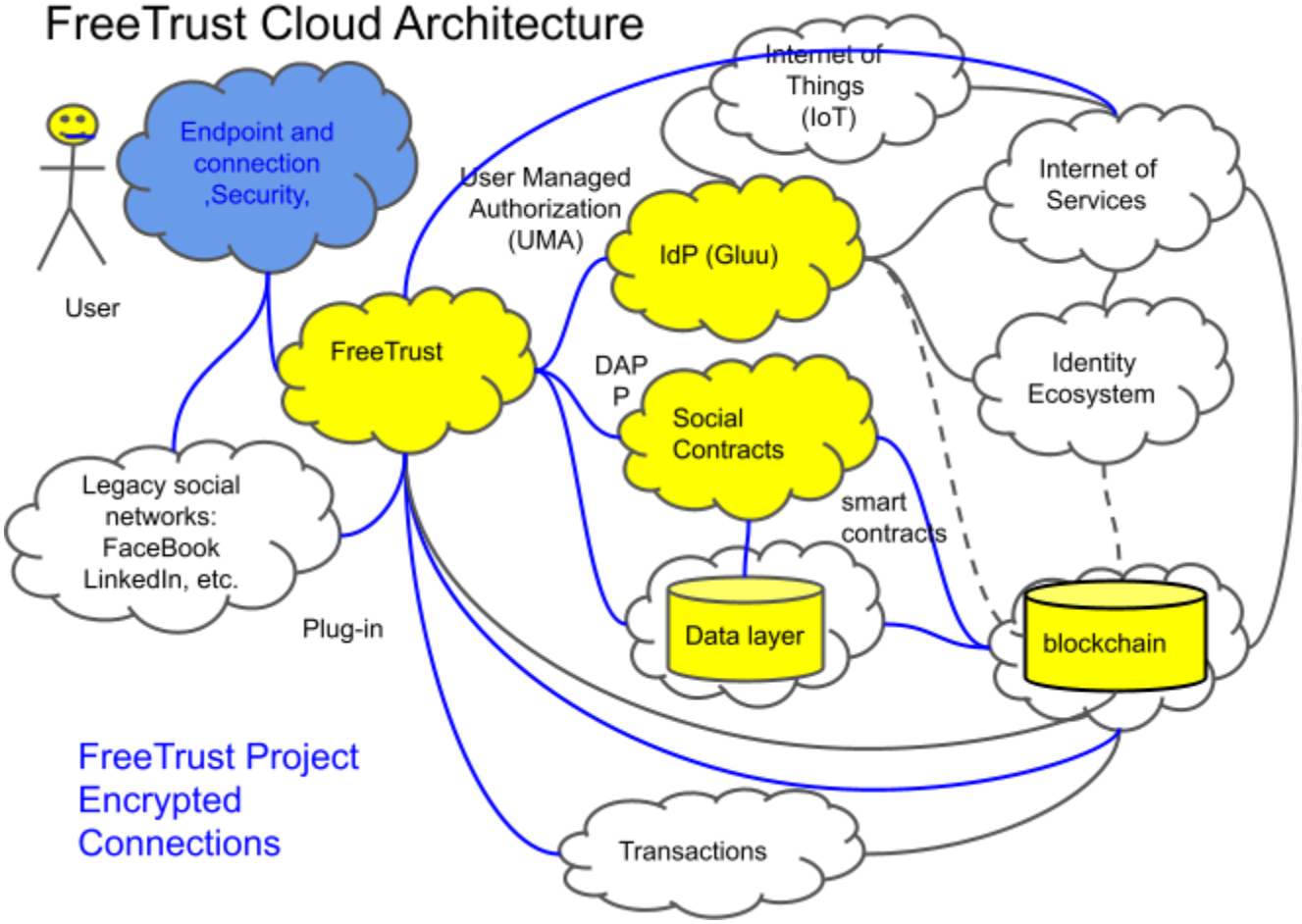
Saturday Open Meeting 2017-12-23

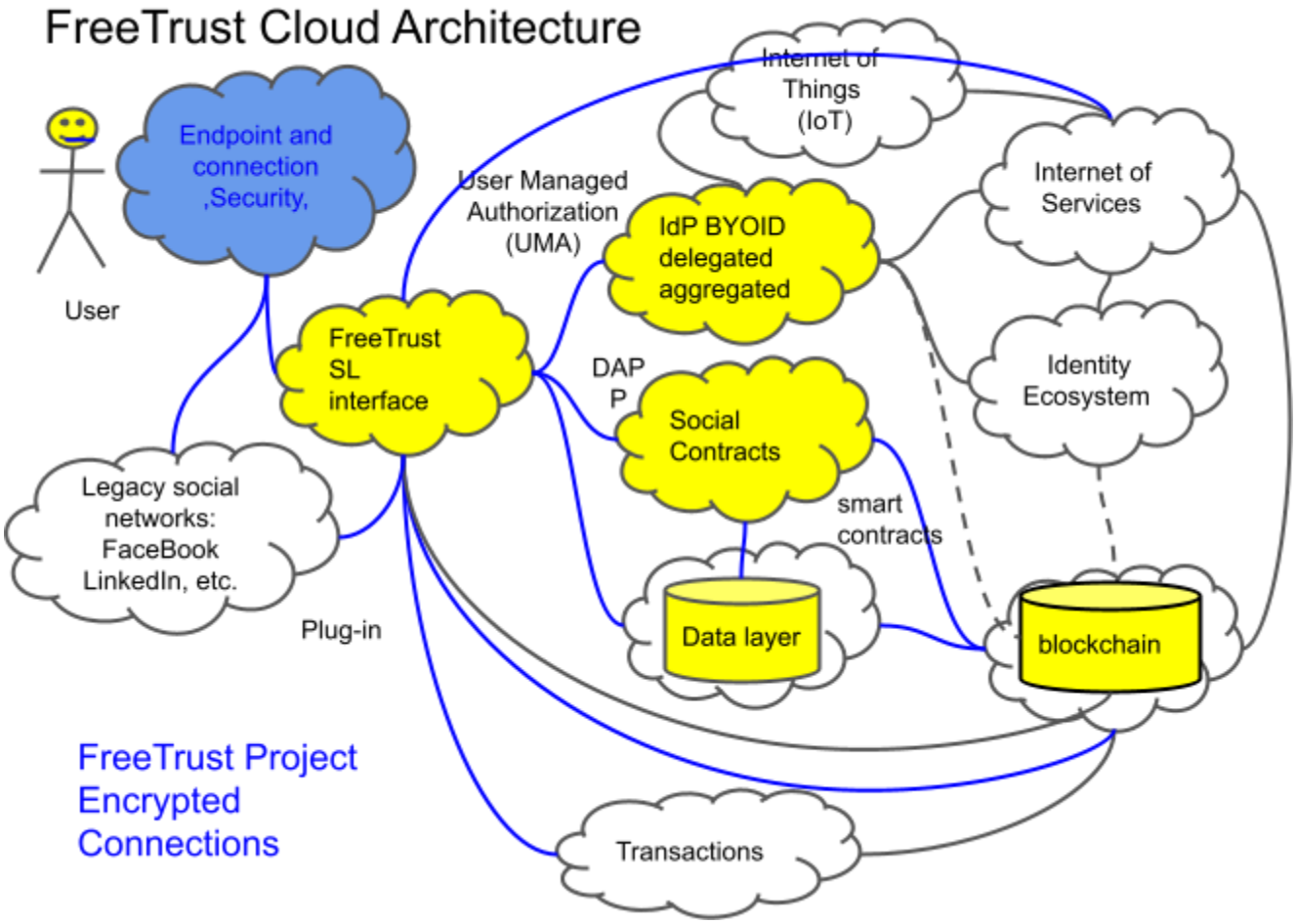
Rao, Jim, Gurinder
Add topics anywhere is list:

1. Frustrations, excitements and/or meeting expectations round
    a. Rao: get up to speed on current thinking, components
    b. Gurinder: wanting time to get things started,

    c. Jim: Great +ve: Art Brock took guide role in holochain DKPI - identity channel
2. Complete rchain membership for funding. Join diglife and holochain for cooperation
3. Architecture diagram
    a. Subutai
    b. Cloudron on top of Subutai? When? How? Who? -- John Grant, Jochim, jim w ?
    c.
    d. Initially BYOID should allow access to Social Ledger domain in Chat.divvydao.net, rchain.divvychain.net (to be moved to its own), chat.holochain.net, chat.letssystem.com (direct spin-off from Digitallife collective -- developing token exchange?)
    e. Bridges between channels share activities across channels.
    f. BYOID supports Social Ledger
    g. Distributed OAUTH draft proposal from Amazon https://tools.ietf.org/id/draft-hardt-distributed-oauth-00.html may be relevant as an implementation model.
4. Know yourself
5. Review of last week's topics

FreeTrust Cloud Architecture





Saturday 2017-12-16

Gary, Jim, Tristen Roberts,

1. Holochain/rchain/social ledger identity,
2. Tristen setting up meeting with christopher allen and others will report in holochain DPKI channel
3. Planning oauth for social ledger
4. No video today

Saturday 2017-12-09

Jim, Gary, Kit, MZZ, bot

1. Oauth integration universal SL SSO
    a. Store tokens in cookies and oauth cache oe firebase encrypted
    b. Ledger webhook landing page per MM server.
    c. discord/telegram oauth
2. /dig id UMA2.0 functionality
3. Holochain identity
    a. App: DPKI-Identity channel (holo team invite), github
    b. The Agent-Centric Web of Trust
    c. DID DNS on holochain.
        i. Dependant on Anchor GET functionality.

Thursday 2017-12-07

Leah, jim

Know yourself planning, BYOID team vs. RChain identity channel.

Wednesday 2017-12-06

- Holochain sprint bridge?
    - Id coop on DID directory
    - John in chat: fernanda from village lab will also connect online. at 3.30 or 4 (GMT) webinar engagement would be great
- Oauth aggregation
- Metamaps authentication
- /dig id

Saturday 2017-12-02

Jim, kit, gary, John Kellas, MZZ

- A prerequisite is a distributed identifier directory https://w3c-ccg.github.io/did-spec/ which is not specific to the social ledger, holochain or rchain etc. DNS of DIDs
    - Firebase /dig
    - Holochain
    - Decentralized DNS
    - PGP key directories
    - uPort
    - Other?
- John kellas - https://visual.tools/
- Holochain cooperation on the social ledger and metamaps,
- Oath aggregation, 1st mattermost.
- Scribe, /dig team in BYOID?
- What is exposed is part of the social ledger and everything on the social ledger is part of your identity and reputation.
- we can control our identities on every level everywhere that we might control the destiny of our personna in our associations
- Hubot https://hubot.github.com/

11:13:51 From Gary Coulter : Youbot or Yubot
11:15:12 From Jim WHitescarver : https://github.com/hubotio/hubot
11:32:12 From kitblake : Looking at the Hubot repo, and then CONTRITBUTING.md, which links to https://www.contributor-covenant.org/
11:32:21 From kitblake : We should consider doing the same with RChain
11:35:47 From Gary Coulter : visual.tools
11:35:48 From John Kellas : visual.tools
11:43:38 From Gary Coulter : minimum organizational structure for maximum authorability? (did I remember your quote correctly
11:43:40 From Gary Coulter : ?
11:44:06 From John Kellas : minimum possible structure to allow for maximum authorship
11:44:46 From John Kellas : Thank you. I would be happy to try something though the Bristol hackathon focused on Holochain

11:45:30 From kitblake : https://visual.tools/ looks promising
11:45:32 From John Kellas : Sounds good
11:45:56 From John Kellas : Yes, go for it
11:46:24 From Jim WHitescarver : log https://docs.google.com/document/d/1OVUGmxv4q1ywcxDG-V926lrXpkQNDs7n2eO2R5OJdOk/edit#
11:48:48 From kitblake : John, when is the sprint in Bristol?
11:52:50 From kitblake : Hi 毛壮壮
11:53:02 From kitblake : I'm itlake on Telegram
11:53:03 From 毛 壮壮 : hi. go on
11:53:25 From John Kellas : eventbrite.co.uk/e/beyond-blockchain-bristol-holochain-hackathon-tickets-40837476993?aff=es2
11:53:26 From 毛 壮壮 : I am just a guest watching your speaking
11:53:41 From kitblake : Welcome
11:57:27 From kitblake : I see that sprint is soon, the 9th & 10th, next weekend
12:02:55 From kitblake : We should connect
12:20:14 From 毛 壮壮 : hi
12:20:25 From John Kellas : Hi, :)
12:20:31 From John Kellas : Yes Kit
12:20:32 From Jim WHitescarver : log https://docs.google.com/document/d/1OVUGmxv4q1ywcxDG-V926lrXpkQNDs7n2eO2R5OJdOk/edit#
12:20:37 From Jim WHitescarver : hi!
12:23:33 From 毛 壮壮 : byoid is an alternative of uPort/Civic?
12:27:32 From 毛 壮壮 : what's its relationship with rchain?
12:29:08 From 毛 壮壮 : got it.
12:29:49 From 毛 壮壮 : can't have a play around? just Jim show in the browser?
12:30:00 From 毛 壮壮 : give me the url
12:30:14 From kitblake : All the projects that we're working on will need identity. BYOID (Bring your own id) keeps track of developments
12:30:46 From Jim WHitescarver : https://chat.divvydao.net/signup_user_complete/?id=yg3b3bsh1fdujgwdrdtcgjxghh
12:30:56 From kitblake : Jim does the best Social Ledger demos :)
12:30:58 From 毛 壮壮 : see it.
12:31:56 From mzz : I am the one
12:32:06 From mzz : who invest the most money
12:32:09 From mzz : on rchain
12:32:14 From mzz : 3000 EHT
12:44:48 From kitblake : This is a long meeting, usually it's an hour
12:45:04 From kitblake : We're heading for two hours
12:45:19 From kitblake : I have to go soon
12:46:23 From John Kellas : great to see you
12:46:28 From John Kellas : thankyou
12:46:34 From John Kellas : yes
12:47:39 From John Kellas : ferananda from village lab will also connect online. at 3.30 or 4 webinar engagement would be great
12:48:12 From kitblake : 3:30 GMT?
12:48:52 From John Kellas : yes
12:48:58 From kitblake : BYOID is at 4 GMT (I thin k)
12:49:05 From kitblake : I'm in NL, btw
12:49:33 From kitblake : So for me BYOID is at 5
12:50:48 From kitblake : And midnight for mzz
12:53:09 From John Kellas : good to chat :)
12:57:41 From mzz : I never expect that rchain take governance so serious and even develop a dedicated app for it.

12:58:45 From mzz : bye. thanks for kindly invite me to the mattermost
12:58:49 From John Kellas : no,hope to catch you next weekend
12:59:01 From John Kellas : i will share notes over the next week

Saturday 2017-11-25

Gary, jim
https://dapp.tools has some great tools for supporting trust networks with ethereum that look useful for divvydao.org and rchain.coop. Divvy uses minime tokens and would like to use a controller to make them ds-token compatible. We can create ds-tokens for RChain related projects. and port to rchain later.

Saturday 2017-11-18

GSJ, jim

1. Know yourself, Own yourself. Own your organization meeting thu 11am NY time
2. Social ledger awareness of user server membership personna
    a. App keys for each server in firebase
    b. Cookies for users per server is first byoid browser based
    c. DID's for each personna in firebase
3. Fixed json parsing for global /dig search, search through all servers you belong to is to be added.

Saturday 2017-11-11

Patrick, planteater, kit, jim

1. Rchain github project to be fleshed out
2. Social ledger and identity
3. Campaign - patrick
4. Know Yourself paper
    a. Target audience, blockchain aware?, general awareness of blockchain, privacy concerned, identity theft?
    b. problems to be solved,
        i. "Threats to Your Identity" (identity theft, digital stalking(1. Data Vampires, 2. Individual exploiters),
        ii. Centralization(privacy is expensive, single point of hacking) dormant problems(monetizing your reputation) ,loss of privacy, exposing yourself to unnecessary identity threats for access. [no way to share granular aspects of identity]
    c. Current solutions
    d. Planned solutions
    e. Analysis Current & Planned (How adequately these solutions can address these problems)(answer "how is this not perfect", "what remains to be solved" "what's [tractable] what's not" "Approaching the Impossible")
    f. Trade off's & Costs: between how [reliable] unique identity is and the costs of requiring higher level id verification. Uses cases for whether weak or strong ID makes sense. More requirements, the less adoption at first.
    g. Roadmap: Starting with a centralized point for id verification. Go into the whole reputation economy Idea for after everyone is connecting.

        i. Define and explain attention economy
            1. Negatives of Vampire Attention Economy
            2. Explain P2P reputation economy.
    h. CTA for “Own Yourself”
        i. The possibility what’s to come once you own your identity and the access to it.

5. Own Yourself
    a. Sovereign future
    b. Survey of the existing tools available
    c. What you can do now with the existing tools
    d. Proposed solutions moving forward
    e. Analysis of tools moving forward
    f. References to more education
    g. Examples: David Bowie, Singular DTV initiatives

6. Topics to be covered
    a. **Authentication**, authorization, accounting, Auditing (**AAAA**)
    b. OpenID, WebID, …. -> Sovrin, Civic, ...
    c. Federated identity promise and failure
    d. “You are what you do” -> Social ledger
    e. Blockchain privacy?
    f. Strong unique pseudo anonymous identity in webs of trust
7. Meeting time 11am thursdays for know yourself
8. Mattermost team
9. Decred governance, constitution, stakeholder voting

Thursday 2017-11-09

Social ledger and identity
Ken to work on taxonomy

Sunday 2017-11-05

1. Taxonomy - Ken
2. Social identity - The Social Ledger on Holochain (Part 1) -Jim
3. Rchain id project on github -Patrick
    a. KY - Know yourself - your identity is out there.
    b. OY - Own yourself: What you can do now, what we are building/envisioning
    c. OO - own your organization?
4. Sovrin whitepaper gdoc generic federation platform for self sovereign organizations that can be applied locally or globally via the foundation.
5. Hyperleger indi sovrin
6. Meet thursday 10am KY meeting

Saturday 2017-10-24

1. Know Yourself paper
2. SSO - Kanboard oath fix. - Brian, Jim meeting 3pm
3. Social ledger dashboard authentication,- Joachim?
    a. Id's for each communities
4. /dig id
5. Github SL integration - Jake?
6. Discord SL integration - Ian
7. holochain

Saturday 2017-10-14

Jim, Kit, where's Jim? Where's Gary? Where's the grandchild? And the dog? Quiet today….
Set up php oauth to mattermost for social ledger

- https://getcomposer.org/doc/00-intro.md
- https://github.com/php-http/httplug
- https://github.com/thePanz/MattermostClient
- https://github.com/thephpleague/oauth2-client

Saturday 2017-10-07

Jim, Kit, GSJ

1. uPort
2. OAuth for Social Ledger, so it can integrate with Slack, Discord, RocketChat, Matrix, FooBar

Wednesday

https://github.com/uport-project/demo

Tuesday

Kanboard to mattermost oauth configuration in video following community meeting
Unraveled state token, seems authentication works, the cause of the failure reported by kanboard is TBD.

Sunday

curl -v
"https://kanban.divvydao.net/oauth/callback?code=3c74ffc9224724608cdeac358ca3c9348a06fac28e21446663e114cc6f0e8b60&state=3499d05cba763298614bea91400642ba008203171235c863683b7c0f978c"
The OAuth2 state parameter is invalid

[2017/10/01 11:51:31 UTC] [EROR] /api/v3/general/log_client:client code=0 rid=gu1peshshp8u9fwyot95kyyito uid=fi5mywna7ir9xnsaj1949cighe ip=66.169.121.57 msg: Uncaught TypeError: Cannot read property 'focus' of null row: 1 col: 978090 stack: TypeError: Cannot read property 'focus' of null url: https://chat.divvydao.net/static/main.1e36730a59d3633263b2.js [details:]

Saturday

Jim, Ian, Kit Gary, GSJ

1. Member voting
    a. Attempt to build myetherwallet failed -
        i. Talk to Kenny (who might be hoping that we are getting the voting worked out as a result of that Github issue)
        ii. Put on member registration site. navneet
    b. Rank ordering only?
2. /id and /dig id
    a. Bot ecosystem
    b. UMA
    c. Claims and attestation

/id claim eth:0x4876764876283768768736487487482488747 46
/id attest @id uport:kfjksjhfksfjkj or sivrin:77777777
/id @rchain attest @someid address:402 east ave.

Direct people to Mattermost rather than Slack
Bridge the Social Ledger Bot channel so Discord users see the log:

Friday

1. Linkling eth addr with Mattermost/Discord, github, email
2. Single signon - OAuth2
3. uPort Claims attestation (KYC/AML), org uPort id, members
4. Interoperate with Sovrin, follow trust model
5. UMA personal IDP (Solid, hieofone?)
6. /id social ledger integration UMA interface for managing identity, granting permissions on social objects and delegating privileges..
7.

Kanboard Integration with third-party services
OAuth2 Authentication
Fields:

Callback URL: https://kanban.divvydao.net/oauth/callback
Client ID: ••••••••••••••••••••••••••

Client Secret:••••••••••••••••••••••••
Authorize URL:https://chat.divvydao.net/oauth/authoize
Token URL:https://chat.divvydao.net/oauth/token
User API URL:https://chat.divvydao.net/api/v3/user

Scopes
Username Key
Name Key
Email Key
User ID Key

Allow Account Creation
Allow account creation only for those domains
Mattermost OAuth2 App Config
kanboard
kanboard.divvydao.net
Is Trusted: Yes
Client ID: **********
Client Secret: **********
Callback URLs: https://kanban.divvydao.net/oauth/callback
Created by jimscarver on Thursday, September 28, 2017

Sunday 2017-09-24

- Moving byoid primary communication to a team in the social ledger trial, invite

Saturday 2017-09-23 11am NY time

Jim, Kit, Gary, HJ, dog

1. Sovrin->hyperledger indy, Redundant Byzantine Fault Tolerance plenum, fabric-ca membership management api?
2. uPort attest claim, organization id members?
3. Mattermost and discord ids, /id
4. Social ledger
5. Member voting - simple initial prototype
    a. a page listing issues linked to a page like a modified MEW signer having a submit button to post the issue and signed vote message.
    b. the post reads a file containing the whitelisted addresses, verify the address, and store the signed message in a file having the name of the account address under a directory for each issue.
    c. Result success if whitelisted, otherwize failure (keep other votes?)
    d. A tally script could count the votes for each issue.
    e. For transparency the directory of issues could be browsable.

message:

{
 "issue":"xxxx",
 "vote":"myvote"
}
signed:
{
  "address": "0xdb30ace2f50db33d0dd6c940f05d9dba5657eb76",
  "msg": "{\n \"issue\":\"xxxx\",\n \"vote\":\"myvote\"\n}",
  "sig":
"0x03503f7daab71c0d75d336f9c41c91e222c101ed309440fb0da90e29fb3d255f35356da6aa983ad883e422c9f
95abe36d30dbf145643ec55bc04753224e163a51c",
  "version": "2"
}
Verify:
0xdb30ace2f50db33d0dd6c940f05d9dba5657eb76 did sign the message { "issue":"xxxx", "vote":"myvote" }.

Result: success if whitelisted, otherwise failure (keep other votes?)

Collecting addresses of members to whitelist?

Saturday 2017-09-16 11am NY time

1. Review/expand notes from yesterday.
2. New/old team members, roles?
    a. gurinder,
    b. rao,
    c. bob,
    d. kendall,
    e. Paul
    f. you?
3. BYOID mattermost team, invite
    a. Create channels and activities in channels with github issue link
    b. Commit to /dig activities in channels

Friday/Sat 2017-09-15/16

Jim, Gurinder

1. SingleSignon
    a. BYO Mattermost OAuth2, simple mattermost oauth client
        i. Discord, probably matrix, rocketchat, slack
2. BYO Ethereum id / uPort Identity
    a. Claim attribution
    b. Organizational uPort ID, add members
    c. Service discovery
    d. Whitelist membership, e.g. Voting contract
3. Development of “/id” command to provide UMA functionality with privilege delegation.
4. BYO MIT Solid server, WebID, WebACL, Openid, doki.li

5. BYO Hieofone, self sovereign ID management server, OpenID, uPort in progress.
6. Facebook, google etc.
7. /dig activities etc.
8. UX - use fr33id or your own openid connect idp
    a. checklist of factors to share bringing in any id
        i. Bring your social login, facebook etc. at fr33id.org, given fr33id openid
            1. Lots of social login libraries available, e.g. in php
        ii. Bring your eth addr and add to or get fr33id and uPort ID
            1. Web3 page to run transaction to prove address
        iii. Bring email address add to or get fr33id
    b. Allow to log in with this account? Level of security. Primary login?
    c. Mattermost/discord/github early use case
        i. Mattermost email verified
            a. https://docs.mattermost.com/developer/slash-commands.html
            b.
```
channel_id=cniah6qa73bjjjan6mzn11f4ie&
channel_name=town-square&
command=/somecommand&
response_url=not+supported+yet&
team_domain=someteam&
team_id=rdc9bgriktyx9p4kowh3dmgqyc&
text=hello+world&
token=xr3j5x3p4pfk7kk6ck7b4e6ghh&
user_id=c3a4cqe3dfy6dgopqt8ai3hydh&
user_name=somename
```
        ii.
            1. app /id auth.php page using mattermost oauth2 or app token authentication
            2. Validate ethereum address, populate uport
            3. Uma functions - Permission /dig actions via /id
            4. Delegate command pattern invocations
        iii. Associate eth address,uportid, then phone, mailing address
        iv. /id uma functionality including privilege delegation (+mypriv/sudo)
            1. Uma gateways for api's to control permissions: webacl, facebook, your bank, your iot devices etc.
    d. To receive rhoc I9 form? Everify?
    e. https://subutai.io/ cloud?
9. Sovrin->hyperledger indy, Redundant Byzantine Fault Tolerance plenum, fabric-ca membership management api?

Saturday 2017-09-09

Jim, kitblake, Ed

1. SSO Single signon, discord, mattermost
2. Demo Social Ledger and Mattermost slash commands
3. Demo Jake Gillberg's RHOC-based Github voting

Saturday 2017-09-02

Jim, Gary, kitblake

4. Identify uport controller contract
5. Run uPort library in node.js uses IPFS
6. SSO Single signon, discord, mattermost

Friday 2017-09-08 9am EST NY time

Continued in below

Wednesday

Jim, gurinder, kitblake

1. Self sovereign decentralized identity **openid/did service discovery** for uport identity
    a. did:me.uport:uPort address, did:coop.rchain:uPort address, did:org.divvy dao:....
        - did:me.uport:2ocDQrBZFDsnH9fjAqjimxSSopMgUnhfC3A?label=Jim%20Whitescarver is jim on ropsten testnet
    b. Find contracts?
    c. `npm install --save uport-connect`
    d. `Determine eth address of uPort id contract.`
        - $ node
        - > var mnid = require('mnid')
        - undefined
        - > mnid.decode('2ocDQrBZFDsnH9fjAqjimxSSopMgUnhfC3A') // base53check encoded
        - { network: '0x3',
        - address: '0xf8bc076c8096658437b55a43edd8524d8c5af8e0' }
        - Compile contract https://github.com/uport-project/uport-identity/blob/develop/contracts/Proxy.sol to get ABI: [{"constant":false,"inputs":[{"name":"_owner","type":"address"}],"name":"transfer","outputs":[],"payable":false,"type":"function"},{"constant":false,"inputs":[{"name":"addr","type":"address"}],"name":"isOwner","outputs":[{"name":"","type":"bool"}],"payable":false,"type":"function"},{"constant":true,"inputs":[],"name":"owner","outputs":[{"name":"","type":"address"}],"payable":false,"type":"function"},{"constant":false,"inputs":[{"name":"destination","type":"address"},{"name":"value","type":"uint256"},{"name":"data","type":"bytes"}],"name":"forward","outputs":[],"payable":false,"type":"function"},{"payable":true,"type":"fallback"},{"anonymous":false,"inputs":[{"indexed":true,"name":"destination","type":"address"},{"indexed":false,"name":"value","type":"uint256"},{"indexed":false,"name":"data","type":"bytes"}],"name":"Forwarded","type":"event"},{"anonymous":false,"inputs":[{"indexed":true,"name":"sender","type":"address"},{"indexed":false,"name":"value","type":"uint256"}],"name":"Received","type":"event"}]
        - Read contract to get Owner: 0xdc4bbd2c7c3bd9d63a6787066a9ebfa2d9dd5726
    e. Store openid discovery on ipfs linked to uport id
2. Claim proofs and attest to claims
3. SSO Single signon, discord, mattermost

Monday 11:30am NY time

https://zoom.us/j/6853551826

- Project name BYOid or BYOID? Organization? Separate mattermost team at chat.divvydao.net invite
    - BYOID for now
- Next meeting Friday Aug 31st 9am,
- Idp selection (IDentity Provider service) Single Sign On (SSO) solution, OpenID: jim, Apprentice: Alex, gurinder, jeff , Gary Coulter
    - Solid, WebID gives permissioned web, web becomes backend to browser based apps
    - gluu, commercial grade, full featured
    - Php implementations: https://github.com/digitaldonkey/ethereum
    - Hieofone, has uport partially implemented
    - Open app ecosystem, http://www.keycloak.org, as http://fair.coop/ are doing
    - https://www.drupal.org/project/openid_connect jim, jeff
    - Mattermost: Enable OAuth 2.0 Service Provider:
        - Mattermost can act as an OAuth 2.0 service provider allowing Mattermost to authorize API requests from external applications. See documentation to learn more.
        - users can create personal access tokens for integrations in Account Settings > Security. They can be used to authenticate against the API and give full access to the account.
        - Openid login? Jim
        - Is user logged in to mattermost?
    - D-cent: Stonecutter
        - https://github.com/d-cent/stonecutter in clojure
        - Developed with collaboration from several consultancies for an EU wide blockchain services project.
- uPORT update - Standard for self sovereign identity for ethereum public ledger
    - uPort allows end-users to: own and control their personal identity, reputation, data, and digital assets; securely and selectively disclose their data to counterparties; access digital services without using passwords; digitally sign claims, transactions, and documents; control and send value on a blockchain; interact with decentralized applications and smart contracts; and encrypt messages and data.
    - uPort allows enterprises to: establish a corporate identity; easily onboard new customers and employees; establish an improved and transitive Know-Your-Customer process; build secure access-controlled environments with less friction for employees; reduce liability by not holding sensitive customer information; increase compliance; maintain a network of vendors; establish role-specific, actor-agnostic identities (i.e. CTO) with specific permissions.
    - Server Components ● Chasqui - messaging server ● Sensui - gas fueling server ● Infura RPC ● Infura IPFS
    - Tied to ipfs! Web? bigchain?
    - Extension for decentralized ID (DID) service discovery?
    - https://gitter.im/uport-project/Lobby finally people are using uport...

Saturday 2017-08-26 11am EST, 15:00 UTC

Jim, jeff, Gary, alex.rollin, Lawrence Lerner, Skrypt, kitblake, GSJ-i-10-77

- uPort

    - Standard for self sovereign identity for ethereum public ledger
        - did:uport:address service discovery
    - Peruse uport-identity and uport-registry
        - https://github.com/uport-project/uport-identity/tree/develop/contracts
        - https://github.com/uport-project/uport-registry/tree/master/contracts
    - Clone, Review, Add comments to uport contract code: jim, jeff
    - Try Trufflebox uport+truffe: alex?
        - http://truffleframework.com/boxes/react-uport
    - Multi-network id: jeff
      https://github.com/uport-project/mnid
    - IDea: Make a little spreadsheet with identity accounts or at least the uport contact QR code to make them easier to share and test or invite.: alex, jim
- openzeppelin.org - development environment
    - Best-practice truffle-based open-source code for secure solidity smart-contract (ethereum) development
- Identity Manager æpp – æternity - model of member application?
    - What can we do with them?
    - Kit will be link.
- Member contract prototype next steps?
    - Reviewed generic contract use cases and functioning
- Idp selection (IDentity Provider service) OpenID: jim, Apprentice: Alex, gurinder, jeff ,
    - Solid, WebID gives permissioned web, web becomes backend to browser based apps
    - gluu, commerial drade, full featured
    - php: https://github.com/digitaldonkey/ethereum
    - Hieofone, has uport partially implemented
    - Open app ecosystem, http://www.keycloak.org, as http://fair.coop/ are doing
    - https://www.drupal.org/project/openid_connect jim, jeff
- Database: mongodb, firebase
- https://truffle-box.github.io/
    - Take a look at Truffle Box authentication with Uport (Alex)

Thursday 2017-08-24 2pm EST

Saturday 2017-08-12 11am EST, 15:00 UTC

a. solidity membership contract update
b. http://www.keycloak.org/ supports SAML and openid
c. package solid? openid, webid permissioned web + semantic web backend to browser based apps. **Sir Tim Berners-Lee speaks out on data ownership**
d. parity dashboard? wallet.parity.io no roadmap for browser based functionality
e. uPort integration (uPort people joined rchain)

Saturday 2017-08-05 11am EST, 15:00 UTC

1. Reports
    a. Bigchain - steep curve, json files ok to start

b. Parity - need mist also, parity easiest bur bewed metamask also for some apps
c. Hieofone - needs evaluation
d. ID Bots? Social Ledger Integration. Privileges delegation
    i. @user types: /rchain grant @name /rchain actiontemplate
        - Grants your permission like SUDO
    ii. @name types: /dig @user /rchain action
        - Uses permission that has been granted
    iii. Command name /rchain, +command, !command ???
    iv. Link stack username to memberid
        - Verify code: /rchain idcode whgrh4387e3
e. BYOID Token
    i. Need lead and admin in order to mint
    ii. Award to contributors
    iii. Create marketplace and utility
f. Membership contracts
    i. Linking eth address to member pre-registration hash
        - Whitelisting eth addresses => memberid
    ii. Proofs of identity claims
    iii. Fees in rhoc may apply
    iv. marketplace

Saturday 2017-07-29 11am EST, 15:00 UTC

1. Project ramping up with RChain AI Slackbot, we'll need to authenticate
    a. Oauth2 service and user authentication
    b. Linking Github and/or Heroku
2. Fees involved in using a blockchain for authentication?
3. https://ipdb.foundation/ bigchaindb
4. Solid: Dmitri Zagidulin interview in a few weeks: b4 3:30 pm if possible
5. Parity? Need coach.
6. Postal and email verification contracts? Personal email and card.

Saturday 2017-07-22 11am EST, 15:00 UTC

Jim, Glen, Ian, Kit, Albert Baez, Andreas Freund, Gary Coulter
Andreas Freund will be joining us in https://zoom.us/j/6853551826

1. Monax zk proofs? Barrow Hyperledger
2. Decentralized identity foundation, ID2020
3. claims
4. Identity landscape: sovrin?, uport/ethereum, BigChain??
5. Cross blockchain protocols: universal ID/BYOid
6. RChain identity and DigLife.com social ledger

Saturday 2017-07-15 11am EST, 15:00 UTC

Jim, Kit, grandchildren, dog

- Parity deployed, mist? rhoc community dashboard, id proofs, p2p contracts, ethereum authentication, uPort?
- Database? Monax permissioned blockchain/ipfs component, Andreas Freund (video, Meet for good), BigChain? MongoDB? Solid?
- When choosing a db we need to keep in mind a potential mobile app version of our identity app. On Android SQLLite is always available, on iOS you use the CoreData api to use sqlite.
- Check out Marmot from Monax (formerly Eris Industries).

Saturday 2017-07-08 11am EST, 15:00 UTC

Good morning all. Agenda topics for today (add at will):
Glen, jim, kit

- Sovrin trust framework, worklng group
- RHOCid Parity based dashboard with id claim proofs KYC/AML
    - Jim demoed Parity proofs of phone number by SMS (costs $1.50) and email address
    - A snail mail address verification would be possible too
    - Discussed running two Parity's, one being our fork, some trickiness there
    - Make mockups of the future UI so people know what we're thinking
    - RChain Mattermost invite link ~identity channel for dashboard design
    - Install process continued from noob work study
        - Build failed: cargo:warning=ar: unable to rename '/vagrant/target/debug/build/rust-crypto-be7776070793c706/out/lib_rust_crypto_helpers.a'; reason: Operation not permitted
        - Test scripts fail due to \r (return chars) in scripts
- The RHOC client could be distributed to new members as part of the onboarding process.

video

Saturday 2017-06-24 11am EST, 15:00 UTC

Good morning

- Social ledger
- Parity onboarding
    - https://parity.io/
- Bounties new
- SolidCloudron-solid https://git.cloudron.io/cloudron/app-requests/issues/193
- Qbix https://github.com/Qbix/auth/blob/master/README.md field trial?

Ken: byoid doc, updaters

Saturday 2017-06-17 11am EST, 15:00 UTC

Jim, ken, planteater, kit, matt and cloi
https://shihjay.xyz/login
https://github.com/shihjay2/hieofone-as

Run the following commands to install:

```
apt-get install php7.0-curl
```

1. apt install mysql-server

```
sudo curl -o install.sh https://raw.githubusercontent.com/shihjay2/hieofone-as/master/install.sh
sudo chmod +x install.sh
sudo bash install.sh

 php composer.phar
```

Dependencies

2. PHP
3. MySQL apt install mysql-server

Awesome meeting thursday morning with the sovrin agent crew
https://forum.sovrin.org/c/working-groups/agents
https://chat.hyperledger.org/channel/indy-agent
https://github.com/hyperledger/indy-sdk
The good news is the java library is nearing completion for rchain integration.
The bad news for BYOID is integrating with ethereum, openid, webid, LDAP, etc. is still embryonic. I had been led to believe openid out of the box.
However building an agent to associate DIDs seems fairly straight forward. An issue is passing around oauth tokens etc. while guaranteeing self solvency. We will likely want to create agent services on top of the apent api to handle this.
I had thought we would create a sovereign agency to handle rchain members, but it is much less problematical to run a separate agent for each member until we migrate to rchain which can serve as an agency.

Saturday 2017-06-10 11am EST, 15:00 UTC

uPort whitepaper. https://whitepaper.uport.me/uPort_whitepaper_DRAFT20170221.pdf

Saturday 2017-06-03 11am EST, 15:00 UTC

Attendance: jim, ed, glen
Video https://youtu.be/p2jTgZU1CaM

1. Zero knowledge proofs - homomorphic encryption, part of sovrin.org map.
2. Cooperatively run gluu.org openid and UMA on idp.freetrust.net with diivy, cocloud and diglife,com?
    a. Look at sovrin map? https://www.sovrin.org/docs.html

3. Run mit solid server openid and WebID? Build UMA subset.
    a. ditto
4. Construction of a web of trust with attributions on ethereum?
5. uPort? current draft of the uPort whitepaper. We can use just the ethereum contracts for Attributes and Attestations of coop members on ethereum, or include the server components and mobile apps. I suggest the architecture is instructive of the need for rchain identity.
6. Uniqueness of distinct persons having multiple persona.
7. Designing for privacy.
8. divvy, amp, rhoc bounties?
9. jimscarver [1:52 PM]
10. A sovrin agency for rchain membership might serve our needs well for off ethereum Attributes and Attestations not required by ethereum contracts. I think we may want to replicate Attributes and Attestations needed for ethereum on sovereign to make the identity on sovrin complete.
    We can introduce our use case in https://sovrin.discoursehosting.net/c/working-groups/agents or their biweekly Agent Working Group Call thusrsdays 11am in https://zoom.us/j/232861185 (calendar)

Saturday 2017-06-03 9am EST, 13:00 UTC

Attendance: jim, kit, ed, ?

1. Meeting time for future meetings changed to 15:00 UTC 11am NY time
2. @ed.eykholt joined the team
3. Sovrin.org identity structure presentation by ed.
4. DIF working groups
5. UMA, uPort, webs-of-trust, sovrin structure targeted for rchain membership
6. video

Saturday 2017-05-27 9am EST, 13:00 UTC

1. DigLife Sociocratic Identity Circle join DigLife.com
2. Divvy mattermost, join indentity
3. Matrix, mastodon-newtwit, movin.eu/JID
4. uPort RChain Idendity GET ONE! at uPort.me ethereum based self sovereign identity
    a. Alpha, answer a few questions to participate
    b. For RHOCs, the community contracts, structure for RChain
5. SSO to use?
    a. Solid openid provider WebID? - permissioned web to be experimented with
    b. Gluu needs sysadmin, only UMA, production grade OpenID, SAML/Shibboleth+LDAP+SCIM
6.

Saturday 2017-05-20 9am EST, 13:00 UTC

https://youtu.be/gJlefR0rpds
Sociacratic circles, https://www.diglife.com/
Internet of Ownership, collective of collectives, platform cooperative https://ioo.coop/
RHOCs discussion
- we need to be market makers in order for there to be a market for RHOCs
- Jim is trading some RHOCs on EtherDelta

- RHOCs need to be distributed by the DAO
- See https://byteball.org/ for their also distribution model. They're giving coins (Bytes) away for free as they believe digital currencies follow Metcalfe's Law, where the market cap of a currency is proportional to the square of the number of users. True or not, as of this writing Byteball is #27 on https://coinmarketcap.com/currencies/. (The tech is interesting too, their blockchain is a Directed Acyclic Graph, which solves the consensus problem in an entirely different way than proof of work/stake).

Frenemies: in April there was in ICO for https://aeternity.com/. Like RChain, they're also focusing on a muscular blockchain that does heavy lifting. A lot of people in Rotterdam contributed, so much so that Aeternity sponsored the Rotterdam Crypto Meetup on the 19th of May (fyi: Rotterdam is the edgiest city in the Netherlands). Aeternity is based in Liechtenstein, which has a *very* permissive tax regime and the gov is eager to 'get in on' the blockchain surge. Check out their bounty page: https://blog.aeternity.com/%C3%A6ternity-bounty-program-e6191d330cf5.
Campaign Deployer at netify.com
OasisDex decentralized exchange (requires Chrome and MetaMask/parity)
gluu server from MIT, we're running it, also will try Solid permissioned web server
For new member clarity, add "this was an example of how it was used in Synero" to historical references
...

Saturday 2017-05-13 9am EST, 13:00 UTC

Internetidentityworkshop.com aftermath, UMA unadopted, DID service discovery, VRM
VRM product project proposed to deploy UMA
Focus change to identity circle organization, double linking between circles
Discussed the need for a charismatic community
fermat.org the platform, we could integrate, they have their own blockchain
- It's a trust network, with geo partitioning

Promote meeting with Ed, Ian etc.
Discussed definition of the Pilot project (first phase)

Discussed relationship with ProvenSecure.com, https://legalese.com/

Saturday 2017-04-22 9am EST, 13:00 UTC

Location: https://zoom.us/j/6853551826
Welcome kitblake, introductions, Markus checked in
Universal id reqs discussion
Collect work study teams for targeted integrations

1. IoP, iguana/, blockchain IDs, matrix,org id's movim.eu jabber id's
2. OpenID, gluu solid?
3. WebID, solid?
4. ethereum uPort, +webid jolocom?
5. Social logins, etc.
6. Sovrin.org (evernym)
7. ***IdentityServer4***-
8. Rchain
9. User Managed Authorization standard, UMA gluu

Project coins?

Sovrin.org open source self sovereign identity and evernym example business on top.

civic.com - Through our decentralized architecture with the blockchain and biometrics on the mobile device, our platform provides multi-factor authentication without a username, password, third party authenticator, or physical hardware token. (Not open source but free basic service.)

Fermat.org (also IoPgo.com) - Internet of People (IoP) offers the world's only infrastructure with an open social graph, direct access to people and direct device to device communication.

internetidentityworkshop.com (IIW) "the woodstock of identity". Are you going to iiw24 mar 2-4 mountain view CA

peacekeeper's identity and blockchain resources

RChain identity work study: possible coach kit

- Move to noob programming? Separate slack channel? Or matrix.org!!!!
- ethereum uPort, +webid jolocom?
- Attribute verification
    - Eth address to coop hash id
    - Confirm email address
    - Mailing address - send code in ecard KYC/AML
    - Any id factor that has been confirmed by the coop
- Proof of current dues payment
- (Decentralized) Governance integration
    - Finance integration - task/reward, vault contracts, quickbooks inmtegration
    - Future voting integration

Cross community matrix.org chat channel https://riot.im/app/#/room/#identitytools:matrix.org

Action items

- New RChain slack channel
- Invite/share with community
- Make some noise :)
- Project doc (KB: will use BYOID as template for a fresh start)

Saturday 2/4/2017 jim and rao

Investigate email, fixed missing directory
Upgrade gluu
Restart failed, decided to reload from scratch next session.
SAML required for SandStorm SSO

Tuesday 1-17-2017 ProvenID Roadmap

Jim and bob meeting re gluu:
Email verification research
Find reg page!

Wordpress login modification for our openid.
Logo update

Saturday 2/4/2017

tail -f /opt/gluu-server-2.4.4/var/log/maillog
Feb 3 04:00:01 idp postfix/sendmail[1961]: fatal: chdir /var/spool/postfix: No such file or directory
Feb 4 04:02:01 idp postfix/sendmail[32576]: fatal: chdir /var/spool/postfix: No such file or directory
----gluu stop/start after adding missing directory in chroot /opt/gluu-server-2.4.4/var/spool/postfix
Feb 4 15:33:38 idp postfix/postfix-script[680]: warning: not set-gid or not owner+group+world executable: /usr/sbin/postqueue
Feb 4 15:33:38 idp postfix/postfix-script[682]: warning: not set-gid or not owner+group+world executable: /usr/sbin/postdrop
Feb 4 15:33:38 idp postfix/postfix-script[691]: starting the Postfix mail system
Feb 4 15:33:38 idp postfix/master[696]: fatal: bind 127.0.0.1 port 25: Address already in use
Feb 4 15:33:39 idp postfix/master[693]: fatal: daemon initialization failure
Feb 4 15:33:40 idp postfix/postfix-script[856]: fatal: mail system startup failed
[root@idp gluu-server-2.4.4]# tail -f /opt/gluu-server-2.4.4/var/log/maillog
Feb 3 04:00:01 idp postfix/sendmail[1961]: fatal: chdir /var/spool/postfix: No such file or directory
Feb 4 04:02:01 idp postfix/sendmail[32576]: fatal: chdir /var/spool/postfix: No such file or directory
Feb 4 15:33:38 idp postfix/postfix-script[680]: warning: not set-gid or not owner+group+world executable: /usr/sbin/postqueue
Feb 4 15:33:38 idp postfix/postfix-script[682]: warning: not set-gid or not owner+group+world executable: /usr/sbin/postdrop
Feb 4 15:33:38 idp postfix/postfix-script[691]: starting the Postfix mail system
Feb 4 15:33:38 idp postfix/master[696]: fatal: bind 127.0.0.1 port 25: Address already in use
Feb 4 15:33:39 idp postfix/master[693]: fatal: daemon initialization failure
Feb 4 15:33:40 idp postfix/postfix-script[856]: fatal: mail system startup failed

ls -l usr/sbin/postqueue
-rwxr-xr-x 1 root postdrop 259992 Mar 1 2016 usr/sbin/postqueue

Registration url from jason config: https://idp.freetrust.org/oxauth/seam/resource/restv1/oxauth/register produces {"error":"invalid_client_metadata","error_description":"The value of one of the Client Metadata fields is invalid and the server has rejected this request. Note that an Authorization Server MAY choose to substitute a valid value for any requested parameter of a Client's Metadata."}

Updating gluu: https://gluu.org/docs/deployment/updating/

After update gluu starts but redirects to page not found.

Saturday 1-14-2017 - WebID - cert install

Meeting in https://zoom.us/j/6853551826

Roles?
WebID/Ethereum Client: SoLiD, Truffle, Metamask?

Generate and install certs for Idp.freetrust.org apache and java dor gluu
Todo:

1. disallow root login on idp,
2. automate cert update and copy with cron,
3. update oxd licence,
4. try mod_auth_openidc with alternative wordpress openid prubin.
5. Automagic or scheduled updates for all subsystems
6. Create users
7. Branding,
8. email verification,
9. SMS verification,
10. Social Network verification,
11. Cryptocurrency verification,
12. SMS factor,
13. GPG (PKI) Key factor,
14. Device factor,
15. Voice factor,
16. Face factor,

cp /etc/letsencrypt/live/idp.freetrust.org/* /etc/certs
cert.pem chain.pem fullchain.pem privkey.fullchain.pemem
cd /etc/letsencrypt/live/idp.freetrust.org/
openssl x509 -in cert.pem -outform der -out cert.der
keytool -list -v -keystore /usr/java/latest/lib/security/cacerts -storepass changeit | grep -i '_httpd'
Alias name: idp.freetrust.org_httpd
keytool -import -alias idp.freetrust.org_httpd --trustcacerts -file /etc/letsencrypt/live/idp.freetrust.org/cert.der
-keystore /usr/java/latest/lib/security/cacerts -storepass changeit

10:10:37 From Paul Dube : cp /etc/letsencrypt/live/idp.freetrust.org/* /etc/certs
cert.pem chain.pem fullchain.pem privkey.pfullchain.pemem
cd /etc/letsencrypt/live/idp.freetrust.org/
openssl x509 -in cert.pem -outform der -out cert.der
keytool -list -v -keystore /usr/java/latest/lib/security/cacerts -storepass changeit | grep -i '_httpd'
10:10:40 From Paul Dube : keytool -delete -alias your-instance-hostname_httpd -keystore
/usr/java/latest/lib/security/cacerts \
-storepass changeit
10:12:08 From Paul Dube : Alias name: idp.freetrust.org_httpd
10:14:35 From Paul Dube : keytool -import -alias idp.freetrust.org_httpd --trustcacerts -file
/etc/certs/der-formatted-cert.der \
-keystore /usr/java/latest/lib/security/cacerts -storepass changeit
10:21:48 From Paul Dube : keytool -import -alias idp.freetrust.org_httpd --trustcacerts -file
/etc/letsencrypt/live/idp.freetrust.org/cert.der -keystore /usr/java/latest/lib/security/cacerts -storepass changeit
10:39:10 From Paul Dube :
https://gluu.org/docs/how-to/update-certificate/#apache-web-server-certificate-update-process

Saturday 1-7-2017 - WebID dokie.le intro - cert install

Meeting in https://zoom.us/j/6853551826

WebID

1. Create a webid using firefox https://databox.me
2. Backup cert: Firefox options, advanced, certificates, view, Your certs, backup
3. Copy/bookmark WebID, e.g https://jimscarver.databox.me/profile/card#me
4. Add cert to chrome etc., Settings, Advanced, Manage certs, Personal, Import.

dokie.li: decentralised authoring, annotations and social notifications

1. http://csarven.ca/dokieli#introduction - signin webid
2. https://dokie.li/ - signin webid
3.

Solid setup - running your own seb storage

1. Install Git https://help.github.com/articles/set-up-git/
2. Install node https://nodejs.org/en/
3. Install node solid-server https://github.com/solid/node-solid-server/blob/master/README.md
4.
5. Building Decentralized Applications for the Social Web

Exposing your personal server on fr33id.org

1. Install putty
2. Add connection to fr33id

http://id.myopenlink.net/ https://id.myopenlink.net/dataspace/person/jimscarver

API Framework swagger.io

Friday 1-6-2017 - email to solid issue

Hello solid community!

DivvyDAO.org is creating a bring your own identity (BYOID) id aggregation be your own idp. Solid is a perfect replacement for the Synereo.com Alpha released earlier this year but abandoned in the last month in a split between synereo.com and rchain.coop

We exposed a number of synereo alpha nodes on home computers through ssh tunnels as to not expose people's machines. Now we want to do the same thing with solid instead. We want to make these nodes OpenID connect providers and package it with blockchain and other decentralized communication, decision support and community governance tools.

In the light of the synereo fiasco moral and enthusiasm of the group has dwindled as the former synereo community is morphing into ouRChain.cc but there are a few still active and intreeged by solid but weak in the

devops arena. So we would like to learn collaboratively and hopefully contribute to the project in building our solid+ network.

To participate email me for a slack invite and DivvyDAO.org has a BYOID meeting 9am EST Saturdays and community meetings Tuedays 10am EST in the divvy lobby https://zoom.us/j/6853551826 Free free to join and share solid stories and help eachother.

I am at step one. I got solid running on windows 10 laptop thanks to help in gitter and exposed it at https://fr33id.org:8443/ If you would like to expose your node I can create an account for you there. I still need to get *.fr33id.org working...

If we can cooperate we can accomplish a lot :-D

Thanks,

Jim

Tuesday 12-27-2016 solid chat with Tim Berners-Lee

https://gitter.im/solid/chat?source=orgpage

Dmitri Zagidulin

@dmitrizagidulin

Dec 23 12:36

@jimscarver what sort of error are you encountering?

jimscarver

@jimscarver

Dec 23 12:56

I get Athentigating... forever, i guess that can be ignored? I need to find where to use my webid to try a solid app

Dmitri Zagidulin

@dmitrizagidulin

Dec 23 12:56

which app is that in?

jimscarver

@jimscarver

Dec 23 13:06

https://linkeddata.github.io/signup/?tab=signup
but I want to try any solid app, looking for a link....

Dmitri Zagidulin

@dmitrizagidulin

Dec 23 13:09

so one easy way to test signing in, is to try and access your account on databox. (like https://<your username>.databox.me/) which redirects you to the Warp file browser view of your account
did you manage to sign up & create a cert?

jimscarver

@jimscarver

Dec 23 13:10

yes, and I can see my profile and other peoples profile, good so far.

jimscarver

@jimscarver

Dec 23 17:02

i tried https://jimscarver.databox.me/,system/accountRecovery but nnthing happened. I expected to get an email or something. Not in spam either.

Dmitri Zagidulin

@dmitrizagidulin

Dec 23 17:09

hmm, not good. Can you leave a comment on linkeddata/gold#74 (or open a new issue?)

Timothy Holborn

@mediaprophet

Dec 23 17:16

From memory the re: WebID-TLS the URI in the cert can often be wrong, which breaks everything.
Chrome had different issues to Firefox.
And the recovery function didn't see to work for me at all. Part of the issue I felt, was that where it asks for a WebID - what it was asking for, was unclear.

Melvin Carvalho

@melvincarvalho

Dec 23 19:54

@jimscarver you need to type in your webid, what did you put in the box?

Timothy Holborn

@mediaprophet

Dec 24 00:54

has @timbl done a video about SoLiD / data-ownership?
if so, link?

Melvin Carvalho

@melvincarvalho

Dec 24 15:51

I just noticed this nice article on the semantic web mentioning solid
http://www.dataversity.net/2017-predictions-semantic-web-semantic-technologies/
Wood is excited about researchers working on Social Linked Data (pronounced “Solid”) and its prospects for enabling “a cool future where people can control their own data,” via decentralized identity, authentication, access control and generic and RESTful data API.

Timothy Holborn

@mediaprophet

Dec 24 17:17

Have been plugging bits of video about quantum physics/computing, brain functions as they pertain to quantum physics/theory, AI, et.al. as sort of a briefing pieces. Have other TimBL footage, But cannot find that "ted talk" like "video thing" about RWW/SoLiD, choice of Law on ToS, et.al.
If it doesn't exist perhaps someone wants to make on at www2017? Let me know.

Timothy Holborn

@mediaprophet

Dec 24 19:18

Fyi also, https://techcrunch.com/2016/12/19/putting-data-back-into-the-hands-of-owners/

Gregory Magarshak

@EGreg

Dec 24 19:23

Very cool! Solid was mentioned there

Sarven Capadisli

@csarven

Dec 25 06:10

Does anyone still use or care about pim/space workspaces?

Timothy Holborn

@mediaprophet

Dec 25 06:15

I tried to encapsulate the situation for lay persons to get their head around.https://youtu.be/hHT_b7KJj_s. I couldn't find the bit about SoLiD to add to it. Feedback is requested.
Its an educational video, in effect. That's the purpose of it.
I'm working to get broader society involved in the conversation, but they need context.
Hope that all makes sense.

jimscarver

@jimscarver

Dec 25 08:04

Great stuff! I am about half though it waiting for the credential connection. For the lay person hay be too many ideas contrary to their belief system in such a short time. waiting for the brain is a quantum computer :-p

jimscarver

@jimscarver

Dec 25 08:30

could it be that a credential is credit as opposed to debt?
does solid have an enspiral connection?

Melvin Carvalho

@melvincarvalho

Dec 25 09:44

this one mentions solid :
https://archive.org/details/DWebSummit2016_Keynote_Tim_Berners_Lee

jimscarver

@jimscarver

Dec 25 10:23

In DivvyDAO bring your own identity BYOID we have an OpenID server (gluu) planning to link blockchain and other identities under user control.
So I need to get smart on WebID fast. We were planing to the synereo distributed network and are tatgeting rchain when ready in a year or so. Solid apprears perfect in the mean time, and a solid server on rchain will be awesome.

jimscarver

@jimscarver

Dec 25 10:28

see http://ourchain.cc for rchain info.

Melvin Carvalho

@melvincarvalho

Dec 25 10:47

@jimscarver WebID is just another name for a User URL ... you can get machine readable data from that URL giving information about that user, e.g. name, avatar, homepage and arbitrary fields
By linking one User URL (WebID) to another you create a social graph
By leveraging HTTP you start off with a very large existing network, and hyperlinks are a first class citizen of HTTP, that's not to say other types of URI are excluded, but rather, HTTP is a natural place to focus on
Incidentally facebook already support WebID

jimscarver

@jimscarver

Dec 25 11:05

I've been lurking on the blockchain side where it seems nobody is using webid yet? I am happy to be back on the semanic web side and yes, it has an awesome reach.

Dave Duran

@dduran1967

Dec 25 11:10

@melvincarvalho - “facebook already supports WebID” - does this mean everyone with a facebook account can use their profile for WebID identity and auth or I can use my webID to login to facebook?

jimscarver

@jimscarver

Dec 25 11:12

The front end nodes to solid being contemplated would be using react, truffle, metamask, immutable, GraphQL, etc. (great vid^^).

Melvin Carvalho

@melvincarvalho

Dec 25 11:16

@dduran1967 a webID is just a user URL (preferably with a # fragment) that gives back machine readable data (at least in turtle but also other formats) ... facebook support this in their graph ... they have their own auth system which is a combination of username/password, cookies and facebook connect ... tho they do also let you upload a GPG key/certificate
but facebook do not allow outbound connections to other social networks, so it's known as a silo or walled garden, an open version of facebook that allowed both outbound and inbound social connections, would be really neat ... using webid it is possible to build such a distributed social network

Melvin Carvalho

@melvincarvalho

Dec 25 11:30

17m 20s solid is mentioned

jimscarver

@jimscarver

Dec 25 11:38

mentioned as mit project
seems a rather small community here for such a relevant effort

jimscarver

@jimscarver

Dec 25 11:57

we have a sodid middleware but fizzy dapp development environment?
I like permission delegation, unix set userid on the web, but solid gold server is no longer supported. Is permission delegation not important? Are there servers that support it?

Melvin Carvalho

@melvincarvalho

Dec 25 13:59

gold and node solid server (latest branch fix) should support delegation

jimscarver

@jimscarver

Dec 25 15:50

awesome, i'll try the node server, thanks.

Gregory Magarshak

@EGreg

Dec 25 18:56

Hope everyone's holidays are going well :)

Timothy Holborn

@mediaprophet

Dec 25 19:08

i remember something somewhere about the reality being that there is only one social-graph in reality.
re: de-silofication. it’s spoken about a bit here
with the video @melvincarvalho linked to...

Timothy Holborn

@mediaprophet

Dec 25 19:26

Actually, i think that one will do.

Gregory Magarshak

@EGreg

Dec 25 19:27

I don't think that is necessarily the case There isn't only one social-graph in reality. That is facebook's stance because they want to own the social graph.

Timothy Holborn

@mediaprophet

Dec 25 19:29

the concept about only having one social network, is that you are you. it doesn't matter if its someone you bump into at a conference (and would usually share business cards) or someone who is a friend of a friend, those in this group, et.al. it's all part of a persons social-graph that is currently broken-up into different 'silos', which doesn't really reflect a 'human centric' framework of social-interactions by a person or means to enhance support around that by humans / for humans, due to the market-segmentation of various silo providers

Gregory Magarshak

@EGreg

Dec 25 19:29

Every community you go into, you may have different relationships. You may even work with your sister at a company or your boss may be chess student.

Timothy Holborn

@mediaprophet

Dec 25 19:29

if that makes sens..
yes. and those relationships currently filter across different silos
ie: twitter, facebook, instagram, linkedin, skype, google+, etc.
dating apps, etc. etc.

Gregory Magarshak

@EGreg

Dec 25 19:29

Right. You should have those relationships with you. You should be able to control those relationships since they require your consent
But that's not the same as there being one social graph that anyone can see.
Maybe not everyone should know that my boss is also my chess student. Or that I even play chess.

Timothy Holborn

@mediaprophet

Dec 25 19:30

when the break is made between the data and the means for application(s) to consume that data, we end-up with an array of social-graph enhancements.
or problems. depending on whether / how its made or functions.
yes. re: ACLs. the ACLs should be defined by you, you have the right to disagree, you have the right to change your mind, et.al.

Gregory Magarshak

@EGreg

Dec 25 19:31

Yes. Users should be able to host their own ACLs, and their own data.

Timothy Holborn

@mediaprophet

Dec 25 19:31

+1
actually = humans rather than ‘users’.

Gregory Magarshak

@EGreg

Dec 25 19:32

But they may have different identities on different netowrks.

Timothy Holborn

@mediaprophet

Dec 25 19:32

or as it may be denoted otherwise ‘persona ficta’ vs. ‘homo sapiens’
human centric web ;)

Gregory Magarshak

@EGreg

Dec 25 19:33

well that's the thing, can a person have more than one account on the whole web?

Timothy Holborn

@mediaprophet

Dec 25 19:33

the identity frameworks for the application infrastructure can be different from the social-graphs
re: persona vs. unified identity theory

Gregory Magarshak

@EGreg

Dec 25 19:34

Over the years I had to consider a lot of implications of design decisions in this area. Here are some things that came out of it:
http://magarshak.com/blog/?p=135

Timothy Holborn

@mediaprophet

Dec 25 19:34

I think people should be able to organise their data how they want to. However, i also notee that something that is 100% secure = it doesn't exist.

the more 'secure' something becomes, the less accessible it also becomes

Gregory Magarshak

@EGreg

Dec 25 19:35

http://magarshak.com/blog/?p=114

Timothy Holborn

@mediaprophet

Dec 25 19:35

this is not simply a technology problem.

Gregory Magarshak

@EGreg

Dec 25 19:35

Yes, but scroll up read what I wrote above.

Timothy Holborn

@mediaprophet

Dec 25 19:36

the links/
?

Gregory Magarshak

@EGreg

Dec 25 19:37

Yes

Timothy Holborn

@mediaprophet

Dec 25 19:39

:) was reading… I started my first attempts in 2000.https://www.youtube.com/watch?v=ew1HLquFy3M was made 2001, FWIW.

Whilst I saw iTunes and all that came after the iPOD grow from back then, i'm also amazed by the broader lived-experience, and believe whilst it is extremely complicated stuff; that we're much further down the path.

Gregory Magarshak

@EGreg

Dec 25 19:40

+1!

Timothy Holborn

@mediaprophet

Dec 25 19:43

i had this idea i originally called ibank, an investor got involved and said 'base drive' to which i said, 'base' like your arse, and 'drive' like your going somewhere
;)
(some of the UI got mixed up in the demo produced.)
in anycase, the standards work done at W3C is in-effect the only reason why this type of future, may be possible at all.

Gregory Magarshak

@EGreg

Dec 25 19:58

The main issue in my opinion is whether organizations should be represented by users or not.
Once organizations are represented by users, then they can become publishers, pay for the hosting, etc. And people can get accounts and become "tenants" of these organizations. They can either be "self-hosted" or host "with someone".

An article just came out a couple days ago
http://www.forbes.com/sites/montymunford/2016/12/22/how-wordpress-ate-the-internet-in-2016-and-the-world-in-2017/#47f30ff44b24
There is a reason Wordpress has such adoption. It's amazing. You can host Wordpress yourself but you don't have to, you can let some organization give you an account instead. If an editor writes his column at Forbes magazine, does Forbes own it or does the editor? It's an interesting question.

Timothy Holborn

@mediaprophet

Dec 25 20:00

My thinking was, that the web has developed alot from the days where socially estranged ‘geeks’ (like me) had an interest in these things that really didn’t mean much to the lives of others.

These things, the way these things are developed, now impacts humanity. So we need community leaders from all parts of society to talk about the values they care about, and to help technologists get a better mandate about what they should develop and how it will be funded.

Gregory Magarshak

@EGreg

Dec 25 20:01

Yes, agree!

Timothy Holborn

@mediaprophet

Dec 25 20:01

well, that’s what i’m working on for www2017

Gregory Magarshak

@EGreg

Dec 25 20:01

And also don't underestimate the power of good architecture and design. Indeed it is what affects the world in major ways.

Timothy Holborn

@mediaprophet

Dec 25 20:03

i have every confidence in the wonderful minds that exist within forum such as this…

Gregory Magarshak

@EGreg

Dec 25 20:03

For example, this year's election and its huge polarization of the electorate into two opposite camps, rabidly afraid of the other's candidate, and calling all third party candidates "a waste of a vote", could arguably have been completely different if the actual ballots had been replaced with an alternative voting system like Ranked Voting or Approval Vote.
The great news is, such shifts can often be done on a local level. Maine just switched to Ranked Voting. Now their population will vote third party more frequently without fear and won't hate each other as much. And it can be done in the level of a small district as well. Just a simple change like that can have major effects on the world.

Timothy Holborn

@mediaprophet

Dec 25 20:04

yet, as an example, schemaorg doesn't have markup for toilets, babychange-tables, public showers, explicit boolean for news genres, etc.

I'd be homeless if i simply focused on getting that done myself. IMHO, i'm better helping to ensure others get a better understanding of what this stuff is about, why it's meaningful, and how to get involved.

Gregory Magarshak

@EGreg

Dec 25 20:05

yep, people have to get involved, you have to get traction
they'll do it only if it's worthwhile to them

Timothy Holborn

@mediaprophet

Dec 25 20:09

i'm using the lens of what 'verifiable claims' will mean for the future of socioeconomic participation. therein, as you've noted 'they'll do it only if its worthwhile to them', as humans, they may not be aware of how that will translate across every part of society as organisations do exactly that 'only what is worthwhile for them'...

Gregory Magarshak

@EGreg

Dec 25 20:09

yep exactly

Timothy Holborn

@mediaprophet

Dec 25 20:09

so, its a conversation about values

Timothy Holborn

@mediaprophet

Dec 25 20:34

@EGreg i liked the piano related stories on you www by the way. I played piano as a kid also… ;)
seems you are very talented ;)

Gregory Magarshak

@EGreg

Dec 25 20:35

Thank you! Maybe I should mention the piano stuff sometimes, but it usually doesn't come up hehe
Yeah I used to play concerts. One of those Russian immigrant kids, you know? :) How about you?

Timothy Holborn

@mediaprophet

Dec 25 20:36

:) I did grade 6 when i was about 13/14, but then found that ballroom dancing provided opportunities i enjoyed with young women of my age..
so taught that for a whie.
it literally kept me off the street in later adolescence.

Gregory Magarshak

@EGreg

Dec 25 20:37

Oh that's awesome. If you got so good at ballroom dancing as a teenager that you could teach it!
Not such a lonely geek after all then.

Timothy Holborn

@mediaprophet

Dec 25 20:38

http://www.theage.com.au/articles/2004/06/16/1087244973657.html tells some of the story, but its worthwhile noting; i'd just got out of an incubator that was v.well resourced, and the article was produced in relation to my efforts towards helping to build a business incubator for homeless kids.
the story needed to be told, that vulnerable people weren't necessarily worthless.
bit more of a 'media geek', so, a blend really. have an array of media work in my background, from events, to cinema, to IPTV systems, et.al.
http://www.smh.com.au/national/education/too-cool-for-school-students-project-into-the-future-20100530-wnif.html

Gregory Magarshak

@EGreg

Dec 25 20:41

I'm glad to see this place has such talented people :)

But also very self reliant ... not everyone can survive homelessness and achieve so much!

Timothy Holborn

@mediaprophet

Dec 25 20:47

its worth noting, that my family and those in the environment i grew-up in, were far wealthier than many i met, and those who died on the street having been born into much poorer socio-economic communities. My mothers family had an involvement in producing a large pathology firm.

fathers family different, but also values that helped make me (and my grandfather was a maths teacher, so that helped).

‘first, do no harm’. i’ve seen so many, in fields other than medicine, think they're clever - but none, understand how to read their pathology samples. they need to trust others. It’s been v.interesting to see, how others treat those they feel they can exploit. i think it lessens all of us.

Gregory Magarshak

@EGreg

Dec 25 20:48

I had an idea for helping the homeless that in my opinion was much more efficient, useful and sustainable. Let me know what you think, I'll PM you. (It was going to be a personal project.)

Timothy Holborn

@mediaprophet

Dec 25 20:49

https://lists.w3.org/Archives/Public/public-credentials/2016Feb/0069.html

Timothy Holborn

@mediaprophet

Dec 26 00:28

i updated the clip to add in the SoLiD bit: https://www.youtube.com/watch?v=e9vROTibKiE feedback welcome

jimscarver

@jimscarver

Dec 26 10:11

We must be the militia of security and privacy proactively building decentralized overlapping webs of trust from the bottom up.

jimscarver

@jimscarver

Dec 26 10:20

I am retired researcher and IT professional, founder of ProvenSecure.com, leader of ourchain.cc working toward proven security and proponent of FreeTrust.org incentivizing security, privacy, and building strong anonymous unique identities with purely voluntary trust.

jimscarver

@jimscarver

Dec 26 10:25

Why prefer Turtle?Why not give people freedom to prefer what they prefer?
JSON-LD is trending and we ought assimilate it's proponents. No?

jimscarver

@jimscarver

Dec 26 10:30

Happy holidays all! it is great to discover like minded people. Hopefully we can do great things together.
DivvyDAO.org incentivizes cooperation.

Dmitri Zagidulin

@dmitrizagidulin

Dec 26 12:39

@jimscarver re why prefer Turtle - turtle is a start, something the team is familiar working with. as time goes on and we get more experience working with the json-ld tool chain, you'll see it popping up more. you can contribute - submit PRs w code and data examples involving json-ld to run alongside turtle.

jimscarver

@jimscarver

Dec 26 14:10

Any interest in supporting SCIM? https://tools.ietf.org/html/draft-ietf-scim-core-schema-19 that may be our first project in BYOID.

Dmitri Zagidulin

@dmitrizagidulin

Dec 26 14:11

very remote, if any. I took a look at it earlier this year. From talking to various developers who implemented SCIM, it seems that it's somewhat of a misguided standard, very enterprisey
a not-so-great example of design by committee

jimscarver

@jimscarver

Dec 26 14:14

it's a standard, open source identity providers support it. The alternative is LDAP.

Dmitri Zagidulin

@dmitrizagidulin

Dec 26 14:15

but you gotta look at who the players were, who created that standard.
and what niche/role it fills.
for example - what business problem would implementing SCIM solve for you?

jimscarver

@jimscarver

Dec 26 14:16

We use the gluu IDP for our OpenID provider. It supports LDAP or SCIM.
WebID->SCIM integrates it with the identity ecosystem.

Melvin Carvalho

@melvincarvalho

Dec 26 14:19

@jimscarver serializations have pros and cons, turtle is for one synchronous (not requiring the context lookup) is human readable, has upgrades to TriG and n3
TriG being useful for signing graphs
I believe @kidehen has done some integration with WebID + delegation + LDAP (among other things)

Dmitri Zagidulin

@dmitrizagidulin

Dec 26 14:22

interesting (re using gluu IDP for an openid provider). I can see how implementing SCIM might be useful to you in that case (so that creating a user account on gluu would automatically create a Solid account via SCIM). The thing is, we've taken an alternative path, as far as OpenID integration. We've embedded the IDP functionality inside node-solid-serveritself. Specifically so that users wouldn't need to depend on a standalone outside server such as gluu.
given that, we are unlikely to want to spend dev resources on also implementing a SCIM api for user management. (at least, in the near term). If you wanted to build a SCIM-to-Solid-user-api bridge library, however, that may be helpful to others.

Sarven Capadisli

@csarven

03:57

http://www.politico.com/story/2016/12/foreign-travelers-social-media-232930

Timothy Holborn

@mediaprophet

04:25

http://www.zerohedge.com/news/2016-12-24/obama-signs-countering-disinformation-and-propaganda-act-law

jimscarver

@jimscarver

08:32

fighting the disinformation of the powers that be can be self defeating. constructing good information from the bottom up is necessary and sufficient. Information wants to be free. And the right of ownership of personal information must be granted affirmatively.
To that end divvy does not seek to develop anything, but to instead integrate everything.

jimscarver

@jimscarver

08:41

The gluu IDP integrates exiting OpenID/Social, SAML enterprise, Shibboleth educational identities with BYOID and supports the User Managed Authorization standard putting users in control of all their online resources and controlled devices.

jimscarver

@jimscarver

08:53

in principle :-p
not many active participants with devops skills and my own skills are outdated.

jimscarver

@jimscarver

09:01

A personal solid server fits solidly for local storage in a brower based decentralized node supporting bringing your own (or creating) blockchain identities.
In one hour, 10am EST, there is a DivvyDAO.org community meeting. Please stop by so we can meet you. https://zoom.us/j/6853551826

Tim Berners-Lee

@timbl

09:16

Looking at SCIM it is JSON based by has case-insentive keys? "Attribute names are case-insensitive and MAY be camel-cased (e.g., "camelCase"). SCIM resources are represented in JSON [RFC7159] and

MUST specify schema via the "schemas" attribute per Section 3."
It has its own ABNF, not building on JSon or XML or RDF.

- Externally, data are represented as "network virtual ASCII" (namely,
- 7-bit US-ASCII in an 8-bit field), with the high (8th) bit set to
- zero.

Tim Berners-Lee

@timbl

09:26

Whereas W3C standards generally use UTF-8
Maybe http://www.simplecloud.info/ more recent

jimscarver

@jimscarver

09:28

Thanks Tim. It's been many years. You must remember me, mr. curses browser, pre markup. wwwtalk archies, dbs etc. on http1.0, until NJIT got hacked. Then web objects and I disappeared until now :-D

Tim Berners-Lee

@timbl

09:29

https://tools.ietf.org/html/rfc7643
is unicode
Jim, so what were you up to while disappeared?

jimscarver

@jimscarver

09:35

had a great career thanks to the web, retired, promoting the vision of the collective intelligence.
lately I've been obsessed with the vision of the giant computer of all our nodes obeying our rules proven at run time. ourchain.cc
MY priority is BYOID.

Tim Berners-Lee

@timbl

09:39

Cool.
By the way, you asked “why turtle”? Turtle is the simplest clearest way of writing and thinking in the RDF model.

RDF/XML tends to distrat you with the XML model, and JSON/LD with the JS model.
You can write naked integers, decimals, doubles, and dates now, and they have a clear datatype which I like.
But mainly it is native RDF model.

jimscarver

@jimscarver

09:43

I like it.
Do you know who might bo good collaborators for BYOID?

jimscarver

@jimscarver

09:59

I guess that's obvious, I have to get back involved in W3c and network with people you are.

–

Wednesday 12-14-2016 - cont. From 12-10

still not working. http://pastebin.com/9xuTJ66e

URI of the OpenID Provider: https://idp.freetrust.org Custom URI after logout: http://fr33id.org/wordpress *oxd port: 8099

OpenID Connect requires https. This plugin will not work if your website uses http only.

Saturday 12/10/2016 - reinstall oxd-server and gluu/wp plugin

Gluu support instructed us to reinstall latest builds.

"support-google-logout": true Set to false oxauth.log http://pastebin.com/vYbtW8QW downloaded the last update plugin and oxd server, activated plugin and ran oxd-server download the last update plugin and oxd server, activate plugin and run oxd-server oxd-server.log http://pastebin.com/wL2jF1kf

For URI of the OpenID Provider: use https://idp.freetrust.org and then click on Register button. OpenID Connect requires https. This plugin will not work if your website uses http only.

Saturday 12/3/2016 - recreate droplet & reinstall Gluu

Gluu support instructed us to start from scratch… creating a new VM
[root@idp ~]# wget https://repo.gluu.org/centos/Gluu-centos7.repo -O /etc/yum.repos.d/Gluu.repo
--2016-12-03 15:00:04-- https://repo.gluu.org/centos/Gluu-centos7.repo
Resolving repo.gluu.org (repo.gluu.org)... 104.239.197.44
Connecting to repo.gluu.org (repo.gluu.org)|104.239.197.44|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 159
Saving to: ‘/etc/yum.repos.d/Gluu.repo’

100%[==
==============================>] 159   --.-K/s   in 0s

2016-12-03 15:00:04 (5.11 MB/s) - ‘/etc/yum.repos.d/Gluu.repo’ saved [159/159]

[root@idp ~]# wget https://repo.gluu.org/centos/RPM-GPG-KEY-GLUU -O
/etc/pki/rpm-gpg/RPM-GPG-KEY-GLUU
--2016-12-03 15:00:15-- https://repo.gluu.org/centos/RPM-GPG-KEY-GLUU
Resolving repo.gluu.org (repo.gluu.org)... 104.239.197.44
Connecting to repo.gluu.org (repo.gluu.org)|104.239.197.44|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3112 (3.0K)
Saving to: ‘/etc/pki/rpm-gpg/RPM-GPG-KEY-GLUU’

100%[==
==============================>] 3,112   --.-K/s   in 0s

2016-12-03 15:00:15 (51.3 MB/s) - ‘/etc/pki/rpm-gpg/RPM-GPG-KEY-GLUU’ saved [3112/3112]

[root@idp ~]# rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-GLUU
[root@idp ~]# yum clean all^C
[root@idp ~]#

Loaded plugins: fastestmirror
Cleaning repos: Gluu-rpm-centos7-repo base extras updates
Cleaning up everything
Cleaning up list of fastest mirrors
[root@idp ~]# yum install gluu-server-2.4.4
Loaded plugins: fastestmirror

```
Gluu-rpm-centos7-repo                                                    | 2.9 kB  00:00:00
base                                                                     | 3.6 kB  00:00:00
extras                                                                   | 3.4 kB  00:00:00
updates                                                                  | 3.4 kB  00:00:00
(1/5): base/7/x86_64/group_gz                                            | 155 kB
00:00:00
(2/5): extras/7/x86_64/primary_db                                        | 166 kB
00:00:00
(3/5): base/7/x86_64/primary_db                                          | 5.3 MB
00:00:00
(4/5): Gluu-rpm-centos7-repo/primary_db                                  | 325 kB
00:00:00
(5/5): updates/7/x86_64/primary_db                                       | 9.1 MB
00:00:00
Determining fastest mirrors
 * base: mirror.atlanticmetro.net
 * extras: mirror.atlanticmetro.net
 * updates: mirror.atlanticmetro.net
Resolving Dependencies
--> Running transaction check
---> Package gluu-server-2.4.4.x86_64 0:1-1.centos7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
================================================================
 Package                    Arch                Version                Repository                    Size
================================================================================
================================================================
Installing:
 gluu-server-2.4.4          x86_64              1-1.centos7            Gluu-rpm-centos7-repo
625 M

Transaction Summary
================================================================================
================================================================
Install  1 Package

Total download size: 625 M
Installed size: 1.6 G
Is this ok [y/d/N]:
Downloading packages:
gluu-server-2.4.4-1-1.centos7.x86_64.rpm                                 | 625 MB
00:00:57
Running transaction check
Running transaction test
Transaction test succeeded
```

```
Running transaction
  Installing : gluu-server-2.4.4-1-1.centos7.x86_64
1/1
  Verifying  : gluu-server-2.4.4-1-1.centos7.x86_64
1/1

Installed:
  gluu-server-2.4.4.x86_64 0:1-1.centos7

Complete!
[root@idp ~]# /sbin/gluu-serverd-2.4.4 start
[root@idp ~]# /sbin/gluu-serverd-2.4.4 enable
Created symlink from /etc/systemd/system/multi-user.target.wants/machines.target to
/usr/lib/systemd/system/machines.target.
Created symlink from
/etc/systemd/system/machines.target.wants/systemd-nspawn@gluu_server_2.4.4.service to
/usr/lib/systemd/system/systemd-nspawn@gluu_server_2.4.4.service.
[root@idp ~]# /sbin/gluu-serverd-2.4.4 login
Welcome to the Gluu Server!
[root@gluu_server_2 ~]# cd /install/community-edition-setup/
[root@gluu_server_2 community-edition-setup]# ./setup.py

Installing Gluu Server...
Detected OS  :  centos
Detected init:  systemd
Detected Apache:  2.4
Detected OpenDJ:  3.0

Installing Gluu Server...

For more info see:
  ./setup.log
  ./setup_error.log


** All clear text passwords contained in ./setup.properties.last.
Enter IP Address [67.205.147.82] : 67.205.147.82
Enter hostname [gluu_server_2.4.4] : idp.freetrust.org
Enter your city or locality : Brooksville
Enter your state or province two letter code : FL
Enter two letter Country Code : US
Enter Organization Name : FreeTrust.org
Enter email address for support at your organization : info@freetrust.org
Enter maximum RAM for tomcat in MB [3072] : 4096
Optional: enter password for oxTrust and LDAP superuser [pbMQ5iO5vNK1] : q1!w2@e3#r4$
Install oxAuth OAuth2 Authorization Server? [Yes] :
Install oxTrust Admin UI? [Yes] :
Install Gluu OpenDJ LDAP Server? [Yes] :
```

Install Apache HTTPD Server [Yes] :
Install Shibboleth SAML IDP? [No] :
Install Asimba SAML Proxy? [No] :
Install CAS? [No] :
Install oxAuth RP? [No] :

hostname	idp.freetrust.org
orgName	FreeTrust.org
os	centos
city	Brooksville
state	FL
countryCode	US
support email	info@freetrust.org
tomcat max ram	4096
Admin Pass	q1!w2@e3#r4$
Install oxAuth	True
Install oxTrust	True
Install LDAP	True
Install Apache 2 web server	True
Install Shibboleth SAML IDP	False
Install Asimba SAML Proxy	False
Install CAS	False
Install oxAuth RP	False

Proceed with these values [Y|n]
. . . . .

Gluu Server installation successful! Point your browser to https://idp.freetrust.org
---
Same problem.

Saturday 11/12/2016 - reinstall Gluu

Setup.py:

IP address	67.205.175.166
hostname	idp.freetrust.org
orgName	FreeTrust.org
os	centos
city	Brooksville
state	FL
countryCode	US
support email	info@freetrust.org
tomcat max ram	3072
Admin Pass	q1!w2@e3#r4$

Install oxAuth True
Install oxTrust True
Install LDAP True
Install Apache 2 web server True
Install Shibboleth SAML IDP False
Install Asimba SAML Proxy False
Install CAS False
Install oxAuth RP False

New instance successfully installed but received a strange error and it did not start.
INFO | jvm 1 | 2016/11/12 09:36:30 | INFO: JSF1048: PostConstruct/PreDestroy annotations present. ManagedBeans methods marked with these annotations will have said annotations processed.
STATUS | wrapper | 2016/11/12 09:36:38 | JVM received a signal SIGKILL (9).
STATUS | wrapper | 2016/11/12 09:36:38 | JVM process is gone.
ERROR | wrapper | 2016/11/12 09:36:38 | JVM exited unexpectedly.
WARN | wrapper | 2016/11/12 09:36:42 | The value of wrapper.java.command does not appear to be a java binary.
WARN | wrapper | 2016/11/12 09:36:42 | The use of scripts is not supported. Trying to continue, but some features may not work correctly..
STATUS | wrapper | 2016/11/12 09:36:43 | Launching a JVM...
INFO | jvm 2 | 2016/11/12 09:36:43 | WrapperManager: Initializing...

INFO | jvm 9 | 2016/11/12 10:03:54 | 2016-11-12 10:03:54,762 INFO [org.jboss.seam.Component] Component: xmlService, scope: APPLICATION, type: JAVA_BEAN, class: org.xdi.service.XmlService
INFO | jvm 9 | 2016/11/12 10:03:54 | 2016-11-12 10:03:54,768 WARN [org.jboss.seam.security.permission.PersistentPermissionResolver] no permission store available - please install a PermissionStore with the name 'org.jboss.seam.security.jpaPermissionStore' if persistent permissions are required.
I
Start of log:
STATUS | wrapper | 2016/11/12 09:29:33 | --> Wrapper Started as Daemon
STATUS | wrapper | 2016/11/12 09:29:33 | Java Service Wrapper Community Edition 64-bit 3.5.27
STATUS | wrapper | 2016/11/12 09:29:33 | Copyright (C) 1999-2015 Tanuki Software, Ltd. All Rights Reserved.
STATUS | wrapper | 2016/11/12 09:29:33 | http://wrapper.tanukisoftware.com
STATUS | wrapper | 2016/11/12 09:29:33 |
WARN | wrapper | 2016/11/12 09:29:33 | The value of wrapper.java.command does not appear to be a java binary.
WARN | wrapper | 2016/11/12 09:29:33 | The use of scripts is not supported. Trying to continue, but some features may not work correctly..
STATUS | wrapper | 2016/11/12 09:29:33 | Launching a JVM...
INFO | jvm 1 | 2016/11/12 09:29:33 | WrapperManager: Initializing...
INFO | jvm 1 | 2016/11/12 09:29:34 | Nov 12, 2016 9:29:34 AM org.apache.tomcat.util.digester.SetPropertiesRule begin
INFO | jvm 1 | 2016/11/12 09:29:34 | WARNING: [SetPropertiesRule]{Server/Service/Engine/Host} Setting property 'xmlValidation' to 'false' did not find a matching property.
INFO | jvm 1 | 2016/11/12 09:29:34 | Nov 12, 2016 9:29:34 AM org.apache.tomcat.util.digester.SetPropertiesRule begin

/opt/apache-tomcat-7.0.65/conf/gluuTomcatWrapper.conf:wrapper.java.command=java
/opt/apache-tomcat-7.0.65/conf/gluuTomcatWrapper.conf:wrapper.java.command=/usr/java/latest/bin/java
/opt/apache-tomcat-7.0.65/conf/gluuTomcatWrapper.conf:#wrapper.java.command.loglevel=INFO
/opt/apache-tomcat-7.0.65/logs/wrapper.log.1:WARN | wrapper | 2016/11/12 09:29:33 | The value of wrapper.java.command does not appear to be a java binary.

INFO | jvm 14 | 2016/11/12 10:35:55 | org.apache.commons.exec.ExecuteException: Process exited with an error: 137 (Exit value: 137)

INFO | jvm 14 | 2016/11/12 10:35:55 | org.apache.commons.exec.ExecuteException: Process exited with an error: 137 (Exit value: 137)

INFO | jvm 14 | 2016/11/12 10:34:35 | 2016-11-12 10:34:35,884 INFO [org.gluu.oxtrust.ldap.service.AppInitializer] Build date 2016-08-01 05:26. Code revision b7245 on 26.07.2016 @ 13:44:40 EDT. Build 455
INFO | jvm 14 | 2016/11/12 10:34:36 | 2016-11-12 10:34:36,126 INFO [org.gluu.oxtrust.config.OxTrustConfiguration] Loading configuration from LDAP...
INFO | jvm 14 | 2016/11/12 10:34:36 | 2016-11-12 10:34:36,267 INFO [org.gluu.oxtrust.config.OxTrustConfiguration] Configuration loaded successfully.
INFO | jvm 14 | 2016/11/12 10:34:36 | 2016-11-12 10:34:36,396 INFO [org.gluu.oxtrust.ldap.service.TemplateService] file.resource.loader.path/opt/tomcat/conf/shibboleth2/idp, /opt/tomcat/conf/shibboleth2/sp, /opt/tomcat/conf/ldif, /opt/tomcat/conf/shibboleth2/idp/MetadataFilter, /opt/tomcat/conf/shibboleth2/idp/ProfileConfiguration, /opt/tomcat/conf/template/conf, /opt/tomcat/conf/template/shibboleth2
INFO | jvm 14 | 2016/11/12 10:34:36 | 2016-11-12 10:34:36,587 WARN [org.gluu.oxtrust.ldap.service.SubversionService] The service which commit configuration files into SVN was disabled
INFO | jvm 14 | 2016/11/12 10:34:47 | 2016-11-12 10:34:47,229 INFO [org.gluu.oxtrust.ldap.service.AppInitializer] IDP config generation is set to false
INFO | jvm 14 | 2016/11/12 10:34:54 | >>>>> Initializing ExternalScimService()...
INFO | jvm 14 | 2016/11/12 10:34:54 | >>>>> Initializing ExternalScimService()...
INFO | jvm 14 | 2016/11/12 10:35:51 | 2016-11-12 10:35:51,560 INFO [org.gluu.oxtrust.ldap.service.LogFileSizeChecker] OutXML: <?xml version="1.0" encoding="UTF-8"?>
INFO | jvm 14 | 2016/11/12 10:35:51 | <entries>
INFO | jvm 14 | 2016/11/12 10:35:51 | <entry>
INFO | jvm 14 | 2016/11/12 10:35:51 | <prefix>host-manager</prefix>
INFO | jvm 14 | 2016/11/12 10:35:51 | <location>/opt/tomcat/logs</location>
INFO | jvm 14 | 2016/11/12 10:35:51 | </entry>
INFO | jvm 14 | 2016/11/12 10:35:51 | <entry>

Saturday 11/5/2016 - missing file

Jim, Rao & Paul working on adding license and attempting to configure WordPress plugin. Realized we did not have all of the necessary fields and determined we needed to upgrade the oxd server. However, the oxd server must match the Gluu server so we needed to upgrade that.
In doing that, we ran into difficulties with missing files and could not start the Gluu server. Here is the history of our activity:

INFO | jvm 1 | 2016/11/05 12:46:27 | INFO: Deployment of web application archive /opt/apache-tomcat-7.0.65/webapps/oxauth-rp.war has finished in 31 ms
INFO | jvm 1 | 2016/11/05 12:46:27 | Nov 05, 2016 12:46:27 PM org.apache.coyote.AbstractProtocol start
INFO | jvm 1 | 2016/11/05 12:46:27 | INFO: Starting ProtocolHandler ["http-bio-127.0.0.1-8443"]
INFO | jvm 1 | 2016/11/05 12:46:27 | Nov 05, 2016 12:46:27 PM org.apache.coyote.AbstractProtocol start
INFO | jvm 1 | 2016/11/05 12:46:27 | INFO: Starting ProtocolHandler ["ajp-bio-127.0.0.1-8009"]
INFO | jvm 1 | 2016/11/05 12:46:27 | Nov 05, 2016 12:46:27 PM org.apache.catalina.startup.Catalina start
INFO | jvm 1 | 2016/11/05 12:46:27 | INFO: Server startup in 179905 ms
STATUS | wrapper | 2016/11/05 12:46:39 | JVM received a signal SIGKILL (9).
STATUS | wrapper | 2016/11/05 12:46:39 | JVM process is gone.
ERROR | wrapper | 2016/11/05 12:46:39 | JVM exited unexpectedly.
WARN | wrapper | 2016/11/05 12:46:44 | The value of wrapper.java.command does not appear to be a java binary.
WARN | wrapper | 2016/11/05 12:46:44 | The use of scripts is not supported. Trying to continue, but some features may not work correctly..

**** removed oxauth-rp.war

INFO | jvm 1 | 2016/11/05 13:36:12 | 2016-11-05 13:36:12,239 INFO [org.xdi.oxauth.model.config.ConfigurationFactory] Unable to find configuration in LDAP, try to load configuration from file system...
INFO | jvm 1 | 2016/11/05 13:36:12 | 2016-11-05 13:36:12,245 WARN [org.xdi.oxauth.model.config.ConfigurationFactory] /opt/tomcat/conf/oxauth-config.json (No such file or directory)
INFO | jvm 1 | 2016/11/05 13:36:12 | java.io.FileNotFoundException: /opt/tomcat/conf/oxauth-config.json (No such file or directory)

[root@idp logs]# cp -r /install/community-edition-setup/output/. /opt/tomcat/conf/.
cp: overwrite ‘/opt/tomcat/conf/./.ox-ldap.properties’? n
cp: overwrite ‘/opt/tomcat/conf/./.oxTrustLogRotationConfiguration.xml’? n
cp: overwrite ‘/opt/tomcat/conf/./.server.xml’? n
cp: overwrite ‘/opt/tomcat/conf/./.gluuTomcatWrapper.conf’? n
cp: overwrite ‘/opt/tomcat/conf/./.oxauth-config.json’? n
cp: overwrite ‘/opt/tomcat/conf/./.asimba-selector.xml’? n

***** restart

INFO | jvm 1 | 2016/11/05 14:31:16 | 2016-11-05 14:31:15,935 ERROR [org.xdi.oxauth.model.config.ConfigurationFactory] Failed to load web keys configuration from file: **/etc/certs/oxauth-web-keys.json**
INFO | jvm 1 | 2016/11/05 14:31:16 | 2016-11-05 14:31:15,935 ERROR [org.xdi.oxauth.model.config.ConfigurationFactory] Failed to load configuration from LDAP. Please fix it!!!.
INFO | jvm 1 | 2016/11/05 14:31:16 | Nov 05, 2016 2:31:16 PM com.sun.faces.config.ConfigureListener contextInitialized
INFO | jvm 1 | 2016/11/05 14:31:16 | INFO: Initializing Mojarra 2.1.28-jbossorg-1 20140328-1115 for context '/oxauth'
INFO | jvm 1 | 2016/11/05 14:31:16 | Nov 05, 2016 2:31:16 PM com.sun.faces.spi.InjectionProviderFactory createInstance
INFO | jvm 1 | 2016/11/05 14:31:16 | INFO: JSF1048: PostConstruct/PreDestroy annotations present. ManagedBeans methods marked with these annotations will have said annotations processed.
INFO | jvm 1 | 2016/11/05 14:31:17 | Nov 05, 2016 2:31:17 PM org.apache.catalina.core.StandardContext startInternal
INFO | jvm 1 | 2016/11/05 14:31:17 | SEVERE: One or more listeners failed to start. Full details will be found in the appropriate container log file

[root@idp logs]# find / -name oxauth-web-keys.json
[root@idp logs]# (not found)

At this point, we decided to uninstall & start over.

Tuesday 10/18/2016 - ervin dependencies cont

Continued from yesterday - on ipd:

```
$ sudo rpm --import http://dl.fedoraproject.org/pub/epel/RPM-GPG-KEY-EPEL-7

$ sudo rpm -ihv
http://dl.fedoraproject.org/pub/epel/7/x86_64/e/epel-release-7-8.noarch.rpm
Retrieving
http://dl.fedoraproject.org/pub/epel/7/x86_64/e/epel-release-7-8.noarch.rpm
Preparing...                          ################################# [100%]
        package epel-release-7-8.noarch is already installed

$ sudo yum localinstall -y ~/mod_auth_openidc-2.0.0-1.el7.centos.x86_64.rpm
Installed:
  mod_auth_openidc.x86_64 0:2.0.0-1.el7.centos

Dependency Installed:
  apr.x86_64 0:1.4.8-3.el7                      apr-util.x86_64 0:1.5.2-6.el7
httpd.x86_64 0:2.4.6-40.el7.centos.4
  httpd-tools.x86_64 0:2.4.6-40.el7.centos.4    mailcap.noarch 0:2.1.41-2.el7
```

```
Dependency Updated:
  hiredis.x86_64 0:0.12.1-1.el7

Complete!
```

Please, check it out. TNX!

The author of the mod helped me out. I included EPEL repository yesterday already. The winner was **yum localinstall** :)

Monday 10/17/2016 dependencies

Set up ervin with sudo, rao and jim hangout searching for answers etc.

ervin-lemark [4:49 PM]
I can try several things:
1. force install cjose
2. build openssl and jansson
3. ask authors about it

cjose dependency solved:

```
curl -s -L -o cjose-0.4.1-1.el7.centos.x86_64.rpm
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose
-0.4.1-1.el7.centos.x86_64.rpm
sudo yum localinstall -y ~/cjose-0.4.1-1.el7.centos.x86_64.rpm
```

Then I bumped into hiredis and pcre dependencies:

hiredis dependency solved:

```
sudo yum remove hiredis
wget
ftp://ftp.pbone.net/mirror/ftp5.gwdg.de/pub/opensuse/repositories/home:/crt0sol
utions:/kamailio/CentOS_CentOS-5/x86_64/hiredis-0.11.0-1.1.crt0.x86_64.rpm
sudo yum localinstall hiredis-0.11.0-1.1.crt0.x86_64.rpm
```

Stuck with:

```
Error: Package: mod_auth_openidc-2.0.0-1.el6.x86_64 (/mod_auth_openidc-2.0.0-1.el6.x86_64)
        Requires: libpcre.so.0()(64bit)
```

libpcre is too vital to be downgraded just like that. Asked the author of the mod to help me out and am waiting on the answer.

Sunday 10/16/2016 clientID mod_auth_openidc

Two problems.

1. where do we specify the clienid and secret on the client side? Null is being sent for both. Clientid in gluu is trustid and 1234567890poiuytrewq secret. Hopefully we will get the chance to configure them once we pass the next problem.
2. Apache requies mod_auth_openidc for registration to complete. However to have dependency problem with dependencies. There seems to be versions installed meeting the dependency requirements. Asked Ken Ng for advice on forcing the install.

```
GLUU.[root@idp ~]# rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/mod_auth_openidc-2.0.0-1.el6.x86_64.rpm
Retrieving
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/mod_auth_openidc-2.0.0-1.el6.x86_64.rpm
error: Failed dependencies:
        cjose is needed by mod_auth_openidc-2.0.0-1.el6.x86_64
        libcjose.so.0()(64bit) is needed by mod_auth_openidc-2.0.0-1.el6.x86_64
        libhiredis.so.0.10()(64bit) is needed by mod_auth_openidc-2.0.0-1.el6.x86_64
        libpcre.so.0()(64bit) is needed by mod_auth_openidc-2.0.0-1.el6.x86_64
GLUU.[root@idp ~]# rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose-0.4.1-1.el7.centos.x86_64.rpm
Retrieving
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose-0.4.1-1.el7.centos.x86_64.rpm
error: Failed dependencies:
        pkgconfig(jansson) >= 2.3 is needed by cjose-0.4.1-1.el7.centos.x86_64
        pkgconfig(libcrypto) >= 1.0.1 is needed by cjose-0.4.1-1.el7.centos.x86_64
GLUU.[root@idp ~]# locate libcrypto
/usr/lib64/.libcrypto.so.1.0.1e.hmac
/usr/lib64/.libcrypto.so.10.hmac
/usr/lib64/libcrypto.so.1.0.1e
/usr/lib64/libcrypto.so.10
GLUU.[root@idp ~]# locate jansson
/usr/lib64/libjansson.so.4
/usr/lib64/libjansson.so.4.4.0
```

It might be we can force installation.

Saturday 10/15/2016 planning/start

Planning meeting rao, jim, bill, paul updated project doc, timesheet development

Updated PHP version etc. to be able to allow wp plugin to work without errors. Now able to connect to openid server from wordpress using 2.4.2 version of oxd and the plugin. Need mod_auth_openidc working for dynamic client configuration. Complaining about jansson and libcrypto versions not current, even though they are.

rao: http://ox.gluu.org/maven/org/xdi/oxd-server/2.4.3.Final/ has the version of the 2.4.3 server that seems to be 14 MB. Corresponding 2.4.2 server is 16 MB in the http://ox.gluu.org/maven/org/xdi/oxd-server/2.4.2.Final/ directory.

I think 2.4.3 may also work - we need to verify that at some point. I suspect all their stuff may work, including 2.4.4. Its perhaps just that you are required to have a commercial license to be legal.

Passportjs is the new thing they're adding in 2.4.5 .. http://passportjs.org/

10:00:11 From Paul Dube : http://www.brighthubpm.com/project-planning/5161-what-is-a-project-charter/
10:04:43 From raob : http://www.brighthubpm.com/templates-forms/122282-ten-best-pm-templates-from-google-docs/
10:25:01 From William Whitescarver : Enterprise Activity Sheet https://docs.google.com/document/d/1hAGb68_Xs70qs7mDejnff-KPfa1v_pBDzz9084zSKLA/edit#
10:34:07 From Paul Dube : https://docs.google.com/spreadsheets/d/17HdL998cp0XZqLVH7Nq9-Aj8U_81FwOTMhETD3X10mw/edit#gid=0
10:58:48 From raob : https://subgraph.com/

Jim rao and paul oxd wordpress configuration (lost chat)

Freetrust.net history

```
 1034  wget https://ox.gluu.org/maven/org/xdi/oxd-server/2.4.2.Final/oxd-server-2.4.2.Final-distribution.zip
 1035  ls
 1036  unzip oxd-server-2.4.2.Final-distribution.zip
 1039  cd -
 1040  ls
 1041   rm -rf *
 1042  unzip ~/oxd-server-2.4.2.Final-distribution.zip
 1045  ./bin/oxd-start.sh
 1046  chmod +x ./bin/oxd-start.sh
 1047  ./bin/oxd-start.sh
 1049  ls conf
 1051  vi conf/oxd-default-site-config.json
 1052  vi conf/oxd-conf.json
 1053  "client_request_uris":nul
 1054  vi conf/oxd-default-site-config.json
 1061  fg
 1062  ./bin/oxd-start.sh
```

```
 1070  rpm -ivh http://download.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm
 1071  vi conf/oxd-default-site-config.json
 1074  vi /etc/httpd/conf.d/vhost.conf
 1075  history
[root@freetrust oxd-server]#
----------
idp.freetrust.org/gluu
 736  vi /var/log/httpd/access_log
  737  locate mod_auth_openidc
  738  updatedb
  739  locate mod_auth_openidc
   744  yum search openidc
  745  yum install curl hiredis jansson
  746  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v1.8.2/mod_auth_openidc-1.8.2-1.el6.x8
6_64.rpm
  747  ls -l /usr/lib64/httpd/modules/mod_auth_openidc.so
  748  updatedb
  749  locate mod_auth_openidc.so
  750  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/mod_auth_openidc-2.0.0-1.el6.x8
6_64.rpm
  751  updatedb
  752  locate  hiredis
  753  locate libpcre
  754  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose-0.4.1-1.el7.centos.x86_64.r
pm
  755  yum install jansson
  756  yum install libsrypto
  757  yum install libcrypto
  758  locate libcrypto
  759  locate jansson
  760  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose-0.4.1-1.el7.centos.x86_64.r
pm
  761  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/mod_auth_openidc-2.0.0-1.el7.ce
ntos.x86_64.rpm
  762  rpm -ivh
https://github.com/pingidentity/mod_auth_openidc/releases/download/v2.0.0/cjose-0.4.1-1.el7.centos.x86_64.r
pm
  763  yum install libcrypto
  764  yum install jansson
  765  history
GLUU.[root@idp ~]#
```

References

Background

The Attention Economy

The Reputation Economy

Tokenized Economies
https://medium.com/@SingularDTV/the-age-of-tokenized-ecosystems-27ad2dfb68d2**toeconomics**

Identity on and off blockchain

Current solutions
uPort
Civic
Sovrin

Identity and Governance