2023-05-08 Architecture WG Meeting Notes

Date

08 May 2023

ZOOM Meeting Information:

Monday, May 8, 2023, at 11:30am PT/2:30pm ET.



Join Zoom Meeting

https://zoom.us/j/7904999331

Meeting ID: 790 499 9331

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Attendees:

• Sean Bohan (openIDL)

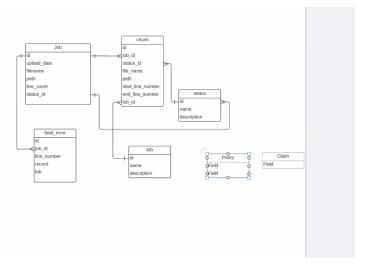
- Mason Wagoner (AAIS)
- David Reale (Travelers)
- Joseph Nibert (AAIS)
- Dale Harris (Travelers)
- Peter Antley (AAIS)
- Ken Sayers (AAIS)
- Tsvetan Georgiev (Senofi)
- Ash Naik (AAIS)
- Brian Mills (AAIS)
- Yanko Zhelyazkov (Senofi)
- Adnan Choudhury (Chainyard)
- Faheem Zakaria (Hanover)
- Allen Thompson (Hanover)

Agenda:

- MS Hurricane Zeta POC Architecture Discussion (KenS)
- Update on openIDL Testnet (Jeff Braswell)
- IWG update (YankoZ)
- Update on RRDMWG and internal Stat Reporting with openIDL (Peter Antley)
 - OLGA: Implementation Discussion
- Future Topics:

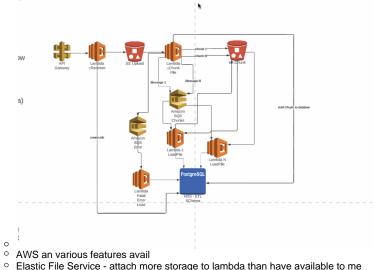
Notes:

- Hurricane Zeta
 - o initial planning
- Testnet
 - o deleting AWG for May 29
- DMWG
 - o had first Weds meeting last Weds
 - o meeting this Weds
 - o giving actuary team points of interest in terms of stat plans
- OLGA replacing SDMA
 - o talking with biz stakeholders about inline editing, bulk editing, when and why using bulk editing
 - o policy and claim tables

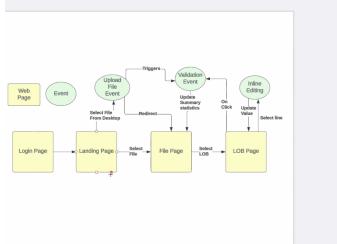


- o allow people to submit large docs into system and process large docs
- o make system process files up to 5gb
- if file greater than, suggest they make 2 files
 JN records? thinks 5gb is 30-35MM files depending on data
- o raw (not zipped or unzipped?)
- O KS number of records in an individual file
- 5gb limit 30MM records, over the limit of what they are shooting for
- o taking one 5gb file, breaking into chunks
- o doing the chunking, want to break chunks up into two ways
- o break up so no greater than 10k records, so that chunks only have records for 1 LOB
- o multi-line file, break into mult threads, diff data objects, for HO and PA and CA, diff chunk for each record
- o work to simplify how we look up records, track job and get rid of data
- what if a record cant be loaded?
- want to put the bad record into a fatal error table: job ID, line # and raw string value
- o fatal error record doesn't match right schema
- o run thru a job, fail to load still make accessible

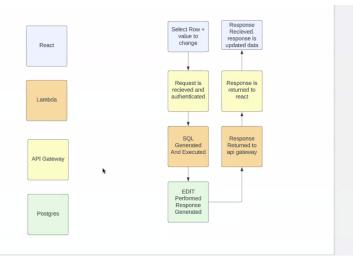
- o status with chunks and status of job and internal state based on 2 status IDs
- o info on the chunk it the most recent
- o how we work on the load



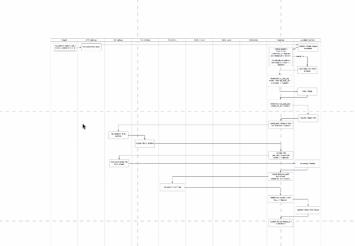
- Elastic File Service attach more storage to lambda than have available to me
- doesn't know exact date march? can now partiition up to 10GB of data with a lambda 5gb file? can use lambda with normal ephemeral storage to do all chunking
- o no EFS
- o save from complexity
- o flow:
- api gateway receives file
- Imbda catches from gateway
- registers job with postgres
- into S3 bucket
- another lambda starts put event
- opens file
- read row thru row
- validate row matches existing schema, will allow to load correctly
- chunks based on LLBs
- write to S3 bucket
- after chunk file written to bucket lambda writes to queue service with metadata about chunk
- more lambdas
- watching queue
- as items pile up in queue, lambdas pick up files, from s3, load into postgres
- row that doesn't meet proper schemas, writes to error queue
- how loading db
- once load db



- list of Ilbs present
- see specific data
- perform inline editing there
- in terms of uploading, next step validations
- (more on validations next week)
- upload file, run validation, do inline editing



- react app providing back end services + unique ID for a row, value change and value itself
- api gateway receives request and thru cognito auth request
- lambda takes info sent, combo of value row and column, gen sql, connect to db and perform that edit
- after edit reselect updated row, use lambda to return it, api will be able to update UI with data from back end



- resources across the top
- upload file, ran validations, made corrections, validated again and now ready for submission
- most is db related
- Amazon lambda toolkit called "Powertools"
- others recommend other tools?
- XRay?
- highly observable applications
- FZ formatting could be easier to define, use any tool to read log files
- GRAYLOG initial fields always fixed and present, var fields as appropriate formatting style
- too far down AWS might not have anythign on azure side
- cloudwatch
- similar capability on the azure side
- FZ containerize as much as possible, w/o leaning on a specific clouds capabilities
- optimizations for azure and aws
- cloud agnosticism
- deploiy to diff clouds
- HL is a kubernetes based service
- dockerized vs kubernetes
- concern may need to reimplement all from azure perspective
- react apps same API routes, react apps would be similar
- saving a lot of implementing that AWS does for you (lot of management in managed services
- larger group discussion open it up for awareness
- containerize to make it more cloud agnostic
- dont need sophistication of kubernetes
- multi-cloud an issue
- lots of use
- offering as SaaS
- make it multicloud or overcomplication as Kub hard to afford

- a lot for not a lot of gain
- loking at containerizeing as much as possible, deploy on diff clouds
 service in azure to deploy w/o kub (so as AWS)
- once redockerizing/recontainerizing things this is on demand workflow fits well for serverless containerize lose features you like, cloud less attractive
- sometimes opposite
 cloud and cloud native makes sense
- sparse and infrequest
- do an architecture decision, get two options out there side by side, make a call
- move forward, knows way he is leaning, bring something up
- agenda for next week AD
- when to use Kub? Reference implementation, for OLGA, some kind of containers/containerbased, or baremetaled
- limited scope of OLGA

Time	Item	Who	Notes

Documentation:

Notes: (Notes taken live in Requirements document)

Recording: