

Weekly Sync: 2019-02-11 Meeting notes

Date

11 Feb 2019

Attendees

- [Audy Barnett](#)
- [Matthew Tisdale](#)
- [Brian Tisdale](#)
- [Hyokyung Lee](#)

Discussion items

- Review Past meeting Action Items
- AWS Account Status & Testing
- Documentation Process

Past Action items



New Action Items

- ☐ [Audy Barnett](#) to add ArcGIS updates to the ticket board.
- ☒ Hyokyung Lee Test ASDC OPeNDAP URL with Geelambda
- ☐ [Audy Barnett](#) Create starter LUCID chart diagram for architecture and testing
- ☒ Audy Barnett Find final report for Bucket Brigade and post to SDT Wiki

Project Schedule		FY 2019											
Last Update: 04/18/2019		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1.0 Planning													
Define Transformation (External)													
Transformation Workflows (External)													
Coordinate ArcGIS Pro and Meeting (Delayed to Sep 18)													
2.0 Development and Implementation													
2.1 Configure Architecture & Infrastructure (ARCIS AMKE)													
ARCIS Infrastructure and Common Dependencies													
GEE Integration Testing with Common													
Geoserver Infrastructure													
ARCIS Infrastructure													
2.2 Data Transformation and Distribution													
Data Product Review													
GEE Improvements of HDF4/S Grid Handler													
GEE Improvements of HDF4/S Search Handler													
Complete Geospatial Plugins for CHRS and MONET													
GEE Improvements of netCDF Handler													
Complete Development of GIS Tools Examples													
3.0 Deployment and Testing													
ARCIS Testing of Examples													
Cloud Optimized Format Comparison													
Complete Performance Evaluation of large Transformation Product													
4.0 Documentation													
4.1 ASDC Reporting													
Data management Plan													
Open Source Software Plan													
Quarterly Reports													
Technical Review													
Midterm Report and Presentation													
Final Report and Presentation													
5.0 Outreach													
ARCIS Meeting Completion													
East Federal Users Conference													
ESD/MS Spring Meeting													
East International Users Conference													

FY2020 Not Currently Shown

Meeting Notes

AWS Account Status and Testing

- ArcGIS Update
- CloudFormation, API Gateway, S3, and Lambda so far.
 - Geelambda worked well with AWS lambda
 - Development can work on LocalStack and then push to AWS
 - Accessing S3 from Geelambda - fails on LocalStack but works on AWS
 - Special driver (vsi3) that the GDAL community allowed for accessing HDF5 on S3
 - Inside the GDAL library in Dec 2018.
 - Used python script in AWS
 - No EC2 - it was serverless - you can invoke through the Gateway API
 - Cloud Formation - Setting up the infrastructure - specifies AWS services like Lambda, API gateway, etc. and how they should talk to each other, and events and how logs will be specified.
 - See Serverless.yml in SDT Git Repo
 - Last piece tested - GeoLambda with OPeNDAP Driver
 - Made another DOCKER file
 - Geelambda can access OPeNDAP Server
 - Tested with OPeNDAP test server
 - Next step to test with ASDC
- eventually set up OPeNDAP in AWS to modify the handler for OPeNDAP
 - Newer Hyrax version can directly read data from S3

Documentation:

- Wiki page for S3 bucket name and EC2 instances to share tags and resource names.
- Workflow diagram with options
- How to organize our buckets to match those of Cumulus?
- Monitoring instances - Once instances are up and running we can schedule/monitor our instances

