Ingestion and Distribution of data in vo.chivo.cl

Indexing and Curation of data ALMA Products

Camilo Nuñez Fernandez

Chilean Virtual Observatory Universidad Técnica Federico Santa María

October 28th 2017



Outline

Big Picture

Services Available

Extract Transform Load

Phase 1: Data Collection

Phase 2: Extraction

Phase 3: Parse & Insert

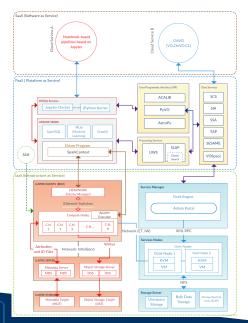
Phase 4: Build Resource

Phase 5: Publish Resource

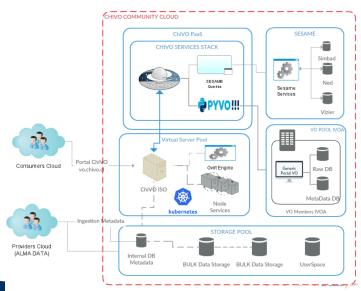
Future Works

Questions











Services Available

- Astronomical Data Query Language (ADQL)
- Simple Cone Search
- Table Access Protocol
- Simple Image Access Protocol

References

The form of the SCS & SIAP is only available for the resource <code>alma_fits.alma_fits</code>.

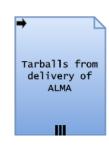


Extract Transform Load



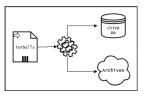
Phase 1: Data Collection

- Sorting the tarballs from deliverys of ALMA, according with our reception protocols.
- Insert the parse from the name of the tarballs in the ChiVO's Data Bases.





Phase 2: Extraction

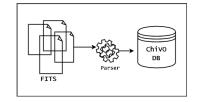


- Extract only the FITS products from the Tarballs.
- Saves the FITS in the ChiVO's Archives.
- Make a Backup of files.
- Insert the finally path of the fits in to the ChiVO's Data Base.

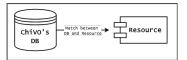


Phase 3: Parse & Insert

- Parse all FITS products.
- Insert the meta data from headers of FITS in to the Data Base.



Phase 4: Build Resource

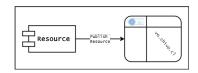


- Create the resource to will be publish on the VO.
- Match between BD and the resource with multiple queries.
- Create all the services, that will be available when the resource is ready.



Phase 5: Publish Resource

- Import the resource with DACHS to be published as VO Table.
- Enable services to will be used over the table.
- Finish the phases and document the process.





Future Works

- ChiVOLabs
- Service provider of ASDM



Thanks!

