Operations IG

Chair: Tom McGlynn

Vice-Chair: Mark Taylor

IVOA Interop Meeting Shanghai 19 May 2017

\$Id: ops-review.tex,v 1.6 2017/05/19 05:53:02 mbt Exp \$

Data Center Reports

China-VO (Changhua Li)

- Many users, big facilities (FAST, LAMOST)
- Focus on moving computation to data
- VOSpace, Apache CloudStack, OAuth 2.0, IPv6

WFAU Edinburgh (Stelios Voutsinas)

- Hosts several large survey databases using SQL Server (Primary: UKIDSS, VISTA, ...; mirror: SDSS, WISE, ...)
- Till now: many AstroGrid DSA TAP services, + Cone, SIA, SSA
- Very soon: new TAP implementation (same data in fewer services) \bigcirc \bigcirc
- Docker, VMs; stateless replaceable components
- Testing: big list of historical user SQL queries
- Users (slowly?) getting used to ADQL (from SQL Server)

Operational Issues

IPv6 (Dave Morris)

- Coming sooner or later ... (address exhaustion)
- Probably won't cause many service/client problems
- Potential for more efficient routing

HTTP→HTTPS transition

See GWS

Operational Issues

IPv6 (Dave Morris)

- Coming sooner or later ... (address exhaustion)
- Probably won't cause many service/client problems
- Potential for more efficient routing

HTTP→HTTPS transition

See GWS

Miscellaneous (Stelios)

- IVOA Forum?
 - ▶ More friendly alternative to mailing list, especially for newer VO users/implementors

Validation Status

Bulk validation reports

- PADC (Pierre Le Sidaner)
- Euro-VO (Costas Vrioni)
- HEASARC (Tom McGlynn)

Service compliance seems to be improving!

New validators

- HiPS (CDS)
- UCD (Grégory Mantelet)
- EPN-TAP (PADC) ... may be on its way

Missing validators

- DataLink
- ... and some others

Validation Publication?

Could/should validation results be published somewhere?

- Use cases:
 - Compare/aggregate results from different validators
 - ▶ Probably feasible, not clear if it's worth the effort
 - Provide something to clients (for users) characterising service
 - ▶ Nice idea, but probably not feasible for practical/political reasons
- Implement using "ValidityTAP" if at all
 - ullet Potential implementors to consider what DM (ightarrow relational schema) would look like
- Keep under consideration

Validation Discussion

HiPS validation

- Validator now available
- CDS to run centralised validation?

Validator discrepancies

- Identify & discuss discrepancies or controversial requirements: validator/validator or validator/implementor disagreement
 - Cone Search 2.3b
- Are some validators too strict?
 Should we care about/report validity failures that don't affect actual usage?
 mandatory SSA fields

Throttling?

- high-volume validator requests, throttled by some services
 - ightharpoonup effect on apparent uptime?
- should we have best practice for validator/other client throttling?
 - ▶ HTTP 503 Retry-After?
- How about validation of clients?

Roadmap

- Identify & follow up validation discrepancies
- Monitor HTTP→HTTPS transition issues
- Monitor IPv6 issues (hopefully no problems...)
- Ensure standards have validators (IvoaValidatorsSummary page)
 - DataLink!
- Monitor/support central validation services
 - Cone, SIA, SSA, TAP: PADC, Euro-VO, HEASARC
 - HiPS in the future? (CDS?)
- Validation result publication
 - Keep under consideration
 - Support "ValidityTAP" experimentation?
- Consider service throttling: validators, user clients