

AMI Status report

AMI team

Docker Container Metadata

- Preparations started to store the metadata as discussed [in this document](#)
- DB creation has been requested at CC-IN2P3
 - Expected to be ready next week (CERN replication not setup yet)
 - DB schema to be validated (see backup)
 - Which fields should be normalized ?
- Preparing dedicated AMI command to create/query/update containers
 - Easy scripting from python or REST
 - Creation command will return the unique container AMI-Tag
- Preparing web interface to query & browse containers
 - [Prototype here](#)

AMI & glance

- A **Glance-AMI workflow** was planned to link DS used in an analysis to a Glance ID in AMI
- Never really used in practice
 - Users never really used the AMI interface
 - Lack of direct integration in Glance web interfaces
 - Technical difficulties
- We propose (as already discussed) a new workflow based on AMI hashtags
 - AMI generates hashtag groups (a.k.a scope) for each analysis in Glance
 - Analysers can then tag their datasets
 - We'll provide python script examples & a web interface to do batch tagging
 - Then only 1 simple addition needed in Glance : a list of hashtags

Xsection & efficiency calculation

- Yet another issue spotted
 - “Negative sum of weights” reported in evgen jobreport were **positive** values
 - Had to replace expression like “sumPosW+sumNegW” by “sumPosW-|sumNegW|”
- Fix implemented and all affected DS where corrected
- See [ATLASAMI-218](#)

Proposed SQL schema for container DB

```
CREATE TABLE "ATLAS_AMI_CONTAINER_01"."CONTAINER"
(
    "ID" NUMBER(*,0),
    "SCOPE" VARCHAR2(32 BYTE),
    "NAME" VARCHAR2(256 BYTE),
    "TYPE" VARCHAR2(64 BYTE),
    "CONTAINERTYPE" VARCHAR2(32 BYTE),
    "CONTAINERARCH" VARCHAR2(32 BYTE),
    "CONTAINERPLATFORM" VARCHAR2(32 BYTE),
    "CONTAINERCOMPILER" VARCHAR2(32 BYTE),
    "PRODSTEP" VARCHAR2(32 BYTE),
    "AMITAG" VARCHAR2(32 BYTE),
    "SWRELEASE" VARCHAR2(64 BYTE),
    "DBRELEASE" VARCHAR2(64 BYTE),
    "DISTSWRELEASE" VARCHAR2(64 BYTE),
    "VERSION" VARCHAR2(64 BYTE),
    "COMMENT" VARCHAR2(4000 BYTE),
    "CREATED" TIMESTAMP(6) WITH TIME ZONE,
    "CREATEDBY" VARCHAR2(255 BYTE),
    "MODIFIED" TIMESTAMP(6) WITH TIME ZONE,
    "MODIFIEDBY" VARCHAR2(255 BYTE)
)
-- contXXXX for partitioning --
-- contXXXX.UNIQUEID.architecture.prodStep.AMIContTag where AMIContTag == letter + CONTAINER.ID
-- Normalization? (production, group production, user) --
-- Normalization? (OCI, Docker, Singularity, ...) --
-- Normalization? (x86_64, power 9, GPU type (Nvidia, Intel, AMD), ARM, ...) --
-- Normalization? (slc6, ...) --
-- Normalization? (gcc62-opt, ...) --
-- Normalization? (pilot, Harvester, ARC-CE, ...) --
-- To put info on patches. Nullable? --
```