

Container images

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DB schema and Web interfaces

a.k.a. Software Stack Identifiers















SWTAG	
	ID: INT
	TAGTYPE: TEXT
	TAGNUMBER: INT
	TAGNAME: TEXT
	IMAGETYPE: TEXT
	IMAGEARCH: TEXT
	IMAGEPLATFORM: TEXT
	IMAGECOMPILER: TEXT
	PRODSTEP: TEXT
	SWRELEASE: TEXT
	DBRELEASE: TEXT
	DISTSWRELEASE: TEXT
	VERSION: TEXT
	COMMENT: TEXT
	CREATED: TIMESTAMP
	CREATEDBY: TEXT
	MODIFIED: TIMESTAMP
	MODIFIEDBY: TEXT

IMAGE	
	ID: INT
	REGISTRY: TEXT
	REPOSITORY_USER: TEXT
	REPOSITORY_NAME: TEXT
	REPOSITORY_SWTAG: TEXT
	REPOSITORY_COUNTER: INT
	HASH_DIGEST: TEXT
	CREATED: TIMESTAMP
	CREATEDBY: TEXT
	MODIFIED: TIMESTAMP
	MODIFIEDBY: TEXT

overwritable

cogs ≡ auto-generated fields

- Search interfaces :

- <https://ami.in2p3.fr/app/index.html?subapp=search>

pyAMI/REST commands for SW-Tags

- `GetSWTagInfo -(swTag|amiTag)=""`

For users, a SW-Tag can be seen as special AMI-Tag
`GetAMITagInfo -amiTag="swXX"`
returns the same result as
`GetSWTagInfo -(swTag|amiTag)="swXX"`

- `AddSWTag -imageType="" -imageArch="" -imagePlatform="" -imageCompiler="" -prodstep="" -swRelease="" -dbRelease="" -distRelease="" -version="" (-comment="")?`
- `UpdateSWTag -tagName="" (-imageType="")? (-imageArch="")? (-imagePlatform="")? (-imageCompiler="")? (-prodstep="")? (-swRelease="")? (-dbRelease="")? (-distRelease="")? (-version="")? (-comment="")?`

pyAMI/REST commands for images

- `GetImageInfo -id=""`
- `AddImage -registry="" -repositoryUser="" -repositoryName="" -repositorySWTag="" -hashDigest=""`
- `UpdateImage -id="" (-registry="")? (-repositoryUser="")? (-repositoryName="")? (-repositorySWTag="")? -(repositoryCounter="")? (-hashDigest="")?`
- `DellImage -id=""`
- `ListImagesForSWTag -(swTag|amiTag)=""`

Conclusion

- Preliminary version of the AMI-Container system in production
 - pyAMI/REST commands
 - Web interfaces
- Important info for pyAMI
 - Deployed on AMI V2 (V1 soon (internal redirection to V2))
 - `source /afs/cern.ch/atlas/software/tools/pyAMI/setup.sh`
 - `ami -e atlas-v2 cmd GetSWTagInfo -swTag="sw1"`
- Have we to develop Web interfaces for defining SW-Tags and images?