

State of Workflow Web Tools Storage

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Information Stored in SQL (fixed schema)

- ▶ Historic error information (updated every 6 hours):
UNIQUE KEY, TASK NAME, EXIT CODE, SITE,
NUMBER OF ERRORS, SITE READINESS
 - ▶ The unique key is generated by combining the task name, site, and exit code. It is used to ensure that historic data is only entered once for this combination.
 - ▶ Site readiness is checked at the time of the update
 - ▶ One missing thing that would be useful is drain status
- ▶ Past reasons:
SHORT REASON, LONG REASON
 - ▶ Short reason appears in the drop down menus
 - ▶ The long reason is planned to be used for explanations to the operator or requester
- ▶ User info:
USERNAME, EMAIL, HASHED PASSWORD,
STRING FOR VERIFYING, BOOL IS VERIFIED
 - ▶ Not needed if we move to SSO, and not used in learning

Actions: Non-Relational Data

Currently, actions are just stored in JSON files

Performance can easily be improved with MongoDB

- ▶ All actions have USERNAME, **TIMESTAMP**,
WORKFLOW, ACTION, **REASONS** (list of long reasons),
PARAMETERS
- ▶ **Timestamp** is just date, so users can overwrite submissions
from earlier in the day easily.
- ▶ **Parameters depends on the action**
These primarily are what make SQL unusable
 - ▶ Kill and Clone has: splitting, memory
 - ▶ ACDC has: tasks (as keys)
Each task has: xrootd, secondary, splitting, memory, sites
 - ▶ Other Action has: other
- ▶ **Lists of strings, like the reasons,**
also make SQL trickier to use