

Atlas Production System (ProdSys2)

- Goal of the ProdSys2 is to provide abstraction level on top of the JEDI/Panda to hide it's complexity, provide user interface and bookkeeping
 - Implementing high level workflows: from a simple repeating the same task definition for different inputs up to multilayer workflows which required input from many users to achieve a final result
 - Implementing policies: avoiding duplication, managing system limitations
 - Managing running tasks: changing execution parameters, fixing broken task, finishing stale tasks, etc.
 - Functionality which requires high level knowledge, like the Data Carousel and data deletion
- Right now it's many dozens workflows implemented into the ProdSys2, which is used by hundreds users
- By its nature the Production System isn't a product like "install, setup, ready to go" but rather a set of well defined component which can be used to develop experiment specific workflows
 - Workflows are constantly changing and new workflows are coming every month
- Technologically the ProdSys2 based on the modern software stack
 - Django is used as a main server framework. Atlas is using Oracle but it's no DB specific operations, all DB calls are abstracted
 - SSO is used for authentication and authorisation
 - Celery(RabbitMQ) is used for cron and async user tasks
 - Elastic-Logstash-Kibana for logging
 - Angular is used for an web interface

