



Workload Management

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Andrew McNab
University of Manchester



Workload Management

- New working group in the Computing Consortium
- To look at workload management systems (WMS) and see what we need to adopt/create
 - Not to operate them
 - **New and existing** systems in scope
- Mailing list: dune-computing-wms@fnal.gov
 - Need more people :-)
- Placeholder wiki page at
 - https://wiki.dunescience.org/wiki/Workload_Management

First activity: DIRAC evaluation

- Evaluate DIRAC as a possible WMS for DUNE
 - and use it as a testbed to generate requirements when looking at other WMS systems
 - a.k.a “Must not do it that way!”
- Using instance of DIRAC hosted for DUNE by Imperial
- DIRAC has a WMS system and data management functionality equivalent to RUCIO
- Aim to put existing files at sites into DIRAC File Catalog
 - Along with their SAM metadata
 - Be able to select files by metadata
 - Let DIRAC direct jobs to sites with requested replicas

DIRAC evaluation status

- Be able to start from a FNAL account/machine ✓
- Submit jobs / manage data with kx509 cert ✓
- Create shadow entries in DIRAC File Catalog ✓
- Put SAM metadata in DFC ✓
- Fetch files using Logical File Names ✓
- Let DIRAC direct jobs requesting an LFN to the site in question ✓
- Try this with more than one or two files 😊
- Write this up on the Wiki and get other people to try 😊
 - https://wiki.dunescience.org/wiki/DIRAC_Evaluation