

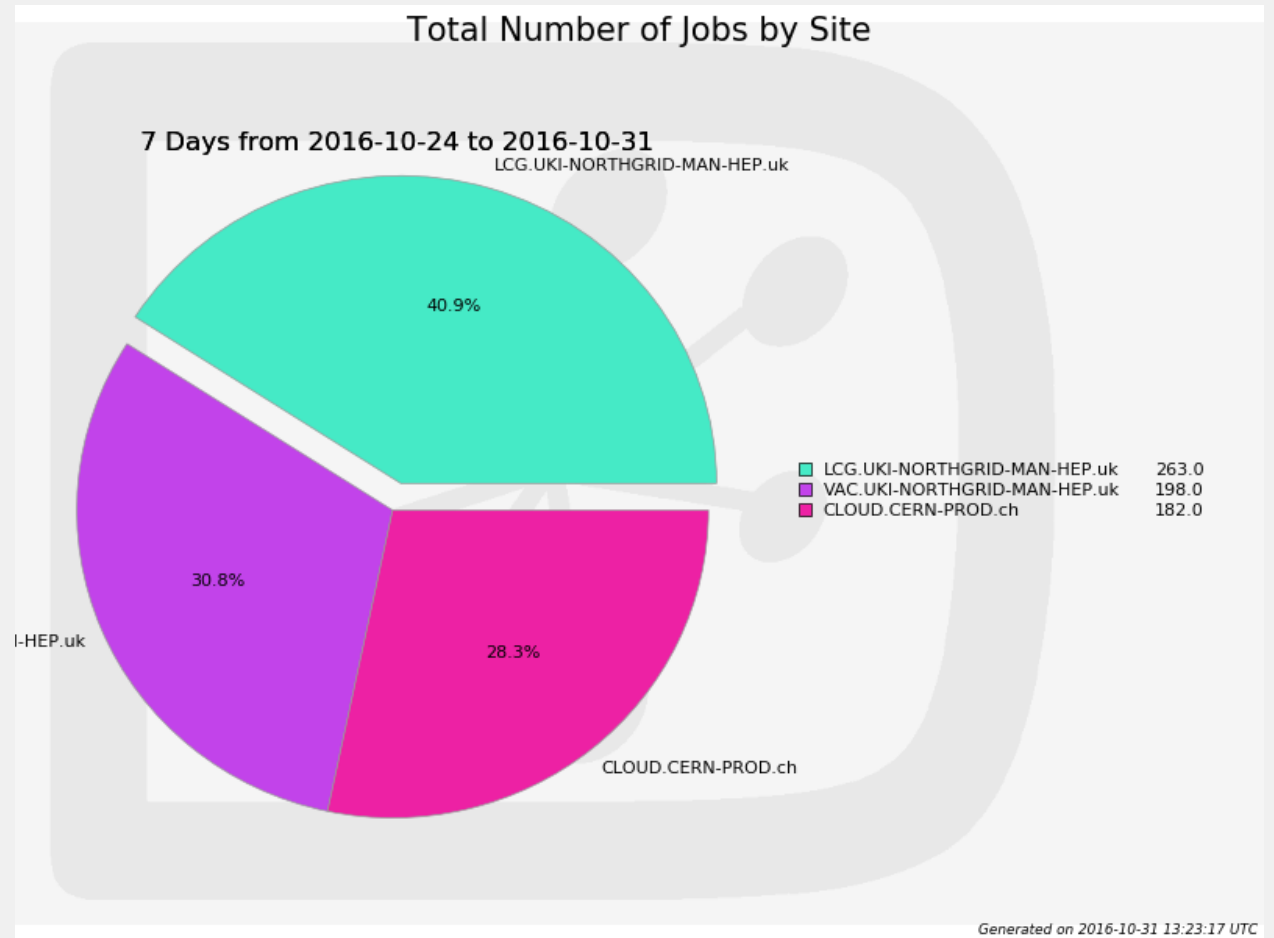


SKA Telescope Virtual Organisation on GridPP/EGI

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Yesterday's slide

- HelloWorld jobs run via GridPP DIRAC in skatelescope.eu VO
 - (Details tomorrow)
- All the jobs submitted to DIRAC are the same
- Same VM running on Vac at Manchester and Vcycle/OpenStack at CERN
- Transparent to the user, whether jobs run on “LCG” (=Torque/CREAM) or the two VM sites





Grid Virtual Organisations (VOs)

- To use the EGI/WLCG grid and systems built on it (eg DIRAC)
 - individuals need X.509 digital certificates from a recognised grid certification authority
 - projects need a Virtual Organisation Membership Service (VOMS) which issues X.509 attribute certificates
 - the virtual organisation needs to be registered with EGI
- To use the GridPP DIRAC service
 - projects need to be registered
 - individuals added automatically from project VOMS
 - sites need to add project's VO to their configuration for running jobs and/or accessing storage



skatelescope.eu Virtual Organisation

- skatelescope.eu has been set up as a VO for European regional data centre tests of the infrastructure
- UK e-Science CA certificates available for individuals
- VOMS service for the VO hosted by GridPP
- VO registered with EGI
 - Can easily request a GGUS area for SKA tickets?
- VO added to GridPP DIRAC service
 - Including DIRAC File Catalog hierarchy for SKA
 - Joining the VOMS service adds individuals automatically
- Hello World jobs run at Manchester (Batch + Vac VMs) and in space at CERN lent by LHCb (Vcycle/OpenStack VMs)
- Storage (few TB) for testing made available at Manchester and visible to GridPP DIRAC jobs and file catalog



VO next steps

- So all this is ready for testing with suitable jobs
 - Using CPU, creating and registering files, running jobs where the data is, accessing data remotely
 - See Tom's talk on Wednesday for DIRAC user guide
- Easy for more SKA people or GridPP collaborators to join
 - Just get a UK e-Science cert and join VOMS
- Easy for more GridPP sites to add SKA to run jobs and/or provide storage
- We could also run GridPP DIRAC VMs on SKA managed OpenStack capacity?



Links

- UK e-Science CA
 - <https://portal.ca.grid-support.ac.uk/caportal/>
- skatelescope.eu VOMS
 - <https://voms.gridpp.ac.uk/voms/skatelescope.eu/>
- GridPP (DIRAC) userguide
 - <https://www.gridpp.ac.uk/userguide/>
- EGI skatelescope.eu VO ID card
 - <https://operations-portal.egi.eu/vo/view/voname/skatelescope.eu>
- GridPP DIRAC portal
 - <https://dirac.gridpp.ac.uk/DIRAC/>