ErUM Data IDT Cloud

- Need combined tests by different experiments
  - Virtualised Services
    - Some activities ongoing
      - DB
      - Monitoring
      - Accounting?
    - *Postponed (technically hard to solve) within one year*
- Combine with components from other work packages
  - Larger Scale Application of COBalD/TARDIS
    - Federated Infrastructure at KIT
      - Aachen
        - TIER 2 (Not managed by COBalD/TARDIS)
        - HPC
      - Bonn
        - BAF
        - HPC (BONNA)
      - Karlsruhe
        - HPC (FH2)
        - TIER3
      - LRZ Cloud
      - Munich C2PAP-Cluster (Belle 2, 100 Cores+)
      - TIER 3
      - TIER 2 (Freiburg, SLURM, for Tests, Caching?)
      - Talk to DESY
      - Göttingen HLRZ
    - NEMO HPC Freiburg
      - Black Forest Grid (ATLAS)
      - KIT-ETP (CMS, Belle 2)
    - Publication tracking by HPC needs to be discussed
    - Puppet Module Bonn
    - National Experiment Meetings to get more parties involved
  - *Agreed to schedule dedicated meetings with Munich and Freiburg*
  - Need scalability tests
    - Currently ~4K Cores ~Tier 2 level (KIT), ~10K Cores at NEMO. Where to go?
- Monitoring
  - Freiburg (TARDIS Plugins)
  - Karlsruhe Grafana based Infrastructure Monitoring
  - Puppet Module from Freiburg
  - Collaboration KIT, Freiburg, W
  - *Agreed to schedule a dedicated meeting among the participants*
- Need to plan larger combined tests
  - Combined Tests
    - COBalD/TARDIS application is good starting point
    - Include more sites
    - Include different site caching strategies (GSI/Frankfurt, KIT, Freiburg?, Wuppertal)
    - Virtualization of different job types
    - Which Benchmarks to run? (Hammer Cloud?, Freiburg (Single Muon Gun), HEPIX Benchmarking Group)
  - *Agreed to schedule a meeting to discuss details*
- Independent Activities
  - Containerization of Jobs
    - ATLAS stand-alone container in production (W)
    - Tests at F/GSI of containerized jobs
    - Almost all jobs in the federated infrastructure (Karlsruhe) are containerized
    - Monitoring is under developement (W, joined effort with Freiburg?)
    - Generalized Container to provide environment (Bonn, KIT, Munich, W, GSI/Frankfurt)
    - CI & CD for container images
    - Distribution of Container Images
  - *Agreed to schedule a dedicated meeting to discuss details.*
- Need combined projects and tests

Legend

- New ideas collected in the meeting
- Can already start to work on this
- Work in progres
- Done