DODAS-CMS on T-SYSTEMS resources
Introduction to DODAS

- An open-source Platform-as-a-Service tool which allows to deploy software applications over heterogeneous and hybrid clouds.
- DODAS has been realized mostly using building blocks originally developed by the INDIGO-DataCloud
  - Currently part of the EOSC-hub’s service portfolio
- DODAS completely automates the process of provisioning creating, managing and accessing a pool of heterogeneous computing and storage resources.
- Currently provides support to generate:
  - HTCondor-based batch system as a Service
  - Big Data platform for ML as a Service
Resource utilization

- Elasticity and self-healing
- Stability over days/weeks (120k jobs)
- Handling of high memory jobs
DODAS-CMS on HNSciCloud

A DODAS generated CMS-Site

DODAS within top 6 CMS Tier2s for 10 days
DODAS with other experiments

- AMS & Batch System as a Service: first integration finished the past August
- Remote submission of analysis jobs from CNAF AMS UI
  - Same UI used to submit to LOCAL LSF
  - Input Data read from AMS EOS@CERN
- Jobs run@TSystems (Open Telekom Cloud)
- Produced output copied on a temporary storage@TSystems (via XRootD)
  - Third party copy from XRootD@OTC to 
    srm://storm-fe-ams.cr.cnaf.infn.it:8444
- Intensive use (Aug.-Sept.)
  - 30TB of produced data (reprocessing)
  - 500K jobs completed successfully