WLCG Monitoring Task Force DC2024 Retrospective

Borja Garrido for the WLCG Monitoring Task Force

March 13, 2024

Introduction

- General overview
- FTS monitoring
- XRootD Next Generation
- dCache with XRootD door
- WLCG sites networking
- Next steps

General overview

- Monitoring infrastructure running fine during the full challenge
  - Many communities jumping in just before/during the exercise
  - Scalability wise no any noticeable issue
- More sites/more issues with the data
  - Several issues identified as more sites were joining
- Lots of fire fighting
- We need more experts looking into the data validation (before and during the exercises)
  - Many issues could have been prevented with some extra validation

FTS Monitoring

Old flow, authentication mechanism field added in preparation for the Data challenges

Issues:

- Remote Access filter was always set to true (Fixed: 1st of February)
  - Changed to be based on src/dst site
  - Corrected data since first of February
- Transferred bytes wrong for failed transfers (Fixed: 22nd of February)
  - Initially based on file size, changed to file size for non failed, transferred bytes otherwise
- Some LHCb endpoints were not correctly enriched (Partially fixed)
  - Issue detected and fixed in CRIC (Fixed: 26th of February)
  - Some endpoints still not fixed, followed up by MONIT

XRootD Next Generation

New flow prepared for this data challenge

Issues:

- Wrong FQDN resolution and wrong domain extraction (Fixed: 14th of February)
  - No FQDN -> no domain, wrong domain -> wrong enrichment
- Remote access flags swapped (Fixed: 1st of February)

dCache with XRootD door

New flow prepared for this data challenge

<u>Issues:</u>

- No any feedback received regarding this flow
- From the monitoring side we can't answer whether flow is correct or not
    - Site managers need to validate it

WLCG sites network monitoring

New flow prepared for this data challenge ([Dashboard](#))

Issues:

- Sites overflowing and reporting numbers from time to time
  - Wrong data has been deleted but it might still happen

Next steps

- Freeze data used during data challenges (Done!)
  - FTS, DDM, Rucio and XRootD short term data have been removed from the removal policies
- Shoveler reported instabilities
  - New shoveler version released recently aiming to fix them
- Adding more sites to use the new flows
  - With more active validation on the actual numbers by the site managers
  - GLED collectors will need to be dropped sooner than later
- Detailed drill down on not correctly enriched documents
  - Aim to understand what might still be wrong and where

Q & A