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GSI Helmholtzzentrum - CIT

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News @GSI

- Finalized new FAIR-ROOT RSE
- Now two XRootD-Dataservers with VOMS-AuthN/Z and Tokens
- FAIR-ROOT providing 20TB of storage on Lustre shared filesystem
 - Quota of one million Inodes
- and GSI-ROOT providing 1TB on a single internal disk
- GSI-ROOT kept around for testing

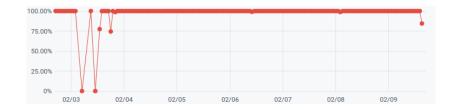
GSI-ROOT

- Frequent service failures as observed during dress rehearsal
- Can observe how a small RSE running at its limit runs in the data lake
- Useful for observing special behaviour
 - During reaper failures, RSE was full at 0% successful transfers
 - Waiting for recovery of reaper service
 - GSI-ROOT recovered without manual intervention

FAIR-ROOT

- Observed only one major failure when Lustre had issues
- Lustre metadata server was failing
- Service didn't recover without manual intervention
- Ready to use token auth
- Will automatically start supporting OIDC as soon as it is ready on rucio's side

FAIR-ROOT success rate over last 7 days





FAIR-ROOT performance over last 7 days

Src\Dst	PIC-DCACHE	LAPP-WEBDAV	LAPP-DCACHE	INFN-NA-DPM-FED	INFN-NA-DPM	IN2P3-CC-DCACHE	GSI-ROOT	FAIR-ROOT ◆
INFN-NA-DPM-FED				NO DATA	NO DATA	81%	36%	
INFN-NA-DPM				NO DATA	NO DATA			
PIC-DCACHE	NO DATA	64%						
SARA-DCACHE								
LAPP-WEBDAV		NO DATA						
IN2P3-CC-DCACHE						NO DATA		
LAPP-DCACHE			NO DATA	95%				
GSI-ROOT							NO DATA	
DESY-DCACHE							37%	
ALPAMED-DPM								
CNAF-STORM								
EULAKE-1								
FAIR-ROOT								NO DATA
PIC-INJECT		NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA

Future Plans

- Cooperation with RUG on JupyterHub multi-user platform
- Expanding FAIR data lake to resources provided by RUG
- Increase work on FAIR data lake
- Upgrade RSEs to XRootD 5 soon (with native XRootD-SciTokens support)