

Current Pilot Setup

- XRootD-Datasever with XRootD Scitokens and XRootD Lcmaps plug-ins
- Deployed on VM in hypervisor via Ansible
- 16 GB RAM and 8 vCPUs
- 10GBit connection
- Single Disk of 1 TB

Events before FDR

- Transfers running successfully
- Emulated hard-drive controller reset drive under load due to assumed timeout
- Switch to paravirtualised drive controller fixed this
- Memory started becoming an issue afterwards
- Only after allocating more memory did we see I/O issues
- Load-spikes started happening Monday afternoon before FDR

Events during FDR

- Transfers started failing en masse
- Ssh log-in to node barely possible
- Disk-thrashed by concurrent FTS transfers
- XRootD entering undefined state - e.g. not releasing write locks
- Only service restart helping temporarily
- Even after FDR frequent I/O driven load spikes that lead to undefined state
- Happening despite storage space remaining

New Setup

- Bare metal server with mount of shared file system Lustre
- Internal connection IP over IB 40 GBit/s
- External connection limited to 10 GBit/s
- Forced on Debian due to standardised Lustre mount
- Provisioning now via Chef instead of Ansible
- CentOS way easier for plain XRootD with XrootD-Scitokens and XRootD-Lcmaps
- Service ready to be RSE soon!

Thank you

Thank you for listening!