

Software Arch 4/14/2011

Attending: Ananthan, Beard, Geng, Hoover, Marker, Mills (recorder), Triggs, Purger, Womack, Yu

Agenda

- 1) Updates
 - Shibboleth on production (Hoover)
 - XML-1 datastream addition on staging server (Triggs)
- 2) Review handle server migration/move document (Nakagama)
- 3) Large file support in Fedora and WMS (Marker)

Production Server Downtime

This entirety of this meeting was dedicated to the storage array failure that occurred on the 12th of April.

On Tuesday, April 12th the storage array for the production system went offline. At the time of the meeting the cause is unknown. The disk trays reported all power supplies had failed along with all of the disks in one tray and 4 disks in another tray. A partial shutdown was attempted on the Wednesday the 13th. The service processor was power cycled. After that the power supplies stopped reporting errors; however the disks were still reporting errors. The option to perform a full shutdown still exists. At the time of the meeting the repository and RUcore website are off-line. Oracle (formally Sun) and some third party vendors were contacted. A third party vendor has begun to investigate and an issue ticket is being submitted to Oracle by Purger and Hoover.

Purger presented the group with a downtime message to post on the libraries website regarding the RUcore downtime and associated services. Slight revisions to the RUetd wording were made and the message was posted by the end of the meeting.

The group discussed options for partially getting RUcore online and creating a read-only system. The decision made by the group was to first duplicate just the RUcore website, without search functionality, elsewhere so RUcore would have a web presence. The site will be placed on the staging server. Downtime messages could then be posted. Search forms would be suppressed and all faculty submission and mss3.libraries traffic (handle redirects and datastream access) would be directed to the RUcore homepage temporarily.

After that the group thought it best to work towards getting a read-only system up and running as soon as possible. Estimated time to achieve that was unknown because of many factors. One large factor was retrieving all information from tape and putting it on a read-only machine. Hoover noted that he thought everything thought to be in the repository was on tape and nothing was lost in the 10 minute window between SAMFS backing up the system and an item being ingested. Once the read-only system is ready it will be tested and replace RUcore for the time being until the storage array is fixed. WMS will not be available nor will statistical reporting of search this and access during this time.

The group will send an email to Grace Agnew outlining the plan and the group will adjust the plan based on Agnew's concerns.

The group recognized that a read-only failover system is needed for unexpected events like this. In the past the only read-only system that was built was for a scheduled extended period of downtime. It was noted that the Server Admin Group has been discussing and planning the architecture for a failover system.

Next Meeting

Next meeting is scheduled for Thursday 4/28/2011.