

Table of Contents

Storage Management TEG: Questionnaire Level 1 - Giacinto Donvito.....	1
Question 1.....	1
Question 2.....	1
Question 3.....	1
Question 4.....	1
Question 5.....	2
Question 6.....	2
That's it!.....	2

Storage Management TEG: Questionnaire Level 1 - *Giacinto Donvito*

This twiki is to collect the input of **Giacinto Donvito**. Please answer the questions below. For more information, please refer to the Storage TEG main twiki.

Question 1

- In your view, what are the 3 main current issues in Storage Management (SM)?

My answer:

(Those answers are mainly related to my CMS experience)

1. Try to ease the end user experience: both in term of accessing their final analysis output and to access data in order to write/debug code
2. Optimized disk usage (less unused data and distribute more the frequently accessed data)
3. Easy the deletion procedure at tier2 level

Question 2

- What is the greatest future challenge which would greatly impact the SM sector?

My answer:

The biggest problem that we should face in the future of SM is the lack on improving in performance on magnetic disk. We will be able to pack a lot of more data into a single disk but the performance (in terms of I/O per second) that each disk is able to provide will not increase accordingly.

Question 3

- What is your site/experiment/middleware currently working on in SM?

My answer:

- INFN-Bari is using Lustre + Storm. Supporting also xrootd for remote and interactive access.

Question 4

- What are the big developments that you would like to see from your site/experiment/storage system?

My answer:

The greatest big development that I would like to see is to be able to deploy a much more fail tolerant fully posix file system at least at LAN level, but it could be of big interest to have it also among federated site at regional level

Question 5

- In your experience and area of competence, what are the (up to) 3 main successes in SM so far?

My answer:

1. The huge amount of data that we are able to transfer
2. The good reliability that we have achieved in transferring large datasets
3. Good LAN bandwidth achieved that is reflecting in a good analysis running efficiency

Question 6

- In your experience and area of competence, what are the (up to) 3 main failures or things you w

My answer:

1. A more flexible and dynamic data placement and deleting, driven by the "request of performance"

That's it!

Thanks! Feel free to edit again at any time, until the date of the kick-off meeting.

-- DanieleBonacorsi - November 2011

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