

Service Challenge Meeting CERN Site Summary

James Casey, IT-GD, CERN FZK, 2 December 2004





Tier-0 Configuration



• 10 dual CPU Itanium machines

- Each has 1Gb connectivity that gets aggregated into a 10Gb switch
- All nodes run CERN SLC3
- ~200GB local fast disk 50MB/s single stream per disk

Configured to run the following services:

- 5 gridftp servers, non-load balanced
- A 4-node load-balanced SRM/Gridftp system in testing
- 1 control node, for running the transfer management software

Direct connections to external network

- 10 Gb connection to GEANT
- 10 Gb link to Chicago (via Starlight)
- 10 Gb test link to SARA/NIKHEF (via Surfnet)



Ongoing Work



SRM at CERN

- radiantservice.cern.ch round-robin DNS alias
- Some problems with IA64 port tracking down to report to development team

Monitoring

- Worked with CERN CS team to inject network monitoring data into Radiant database
- Scripts produced for injecting gridftp logs into MySQL (CERN) and Postgres (SARA)
- Visualization tools being worked on

Networking

- Surfnet line from CERN to SARA reconnected this week after SC2004
 - Currently 3 x 1Gb provisioned



Project Management



- Personnel
 - Jamie Shiers joins Grid Deployment team at CERN with responsibility for Service Challenges
- Communication
 - Website created:
 - http://service-radiant.web.cern.ch/service-radiant/
 - Mailing list for CERN service team created
 - service-radiant@cern.ch
 - Single point of contact for any issues related to CERN side of service challenge
 - Hep-forum-wan-tier1@cern.ch
 - List used for dissemination of general information and discussion with Tier-1s about current results and technical issues
 - Does this need to split into two technical and "info"?



Current Site Progress



	RAL	Fermilab	Brookhaven	Karlsruhe	IN2P3	CNAF	PIC
1. Network Configuration	Contact	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	Contact	Contact
2. Storage Configation		\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$		
3. Site Tuning							
4. "Service Challenge"		Dec 04		Jan 05			

	Taipei	Nordugrid	TRIUMF	NL	DESY
1. Network Configuration	Contact		Contact	V	Contact
2. Storage Configation				$\sqrt{}$	
3. Site Tuning					
4. "Service Challenge"				Dec 04	

KEY √ = Complete ... = In Progress



Service Challenge Schedule

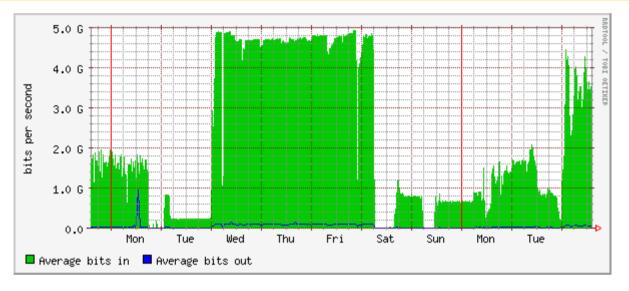


- Dec 04
 - SARA/NIKHEF challenge
 - Still some problems to work out with bandwidth to teras system at SARA
 - Fermilab
 - Over CERN shutdown best effort support
 - Can try again in January in originally provisioned slot
- Jan 04
 - FZK Karlsruhe



Ongoing Data Transfers





* Graphs produced 01/12/04

