

GridPP

UK Computing for Particle Physics

StoRM IPv6 status

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- StoRM overview
 - Developers claim IPv6 support
 - “Last time I checked we didn't have support from the network here@CNAF to do real IPv6 testing”
 - “ Anyway, if things are working for you I think we should be mostly fine.” - StoRM developers”
- IPv6 Testing
 - Dual stack machine at QMUL
 - IPv4 OK
 - IPv6 OK
- Known Issues
 - Gridftp reporting of IP address (GGUS#102900)
 - Will be fixed in globus GT6 alpha2

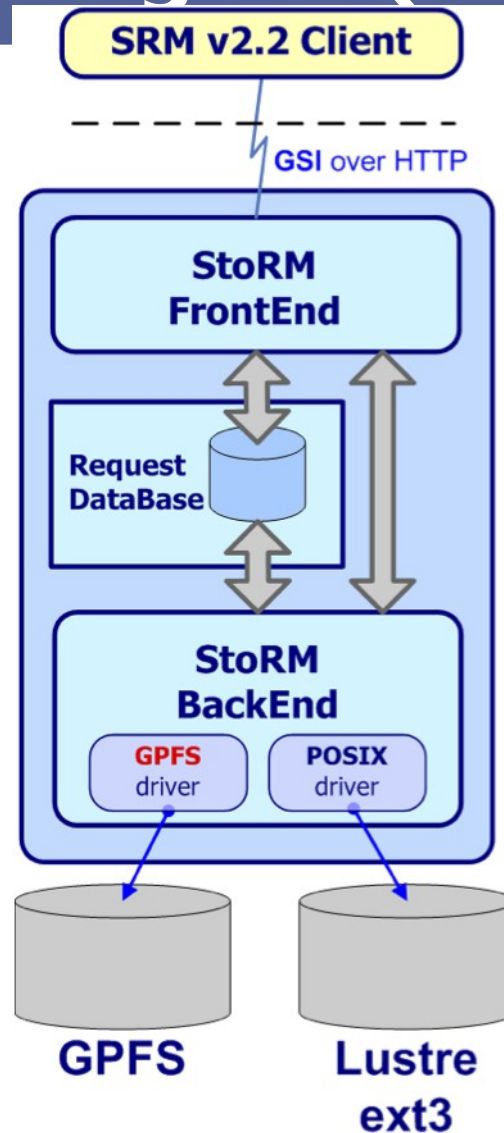
- Dual stack test VM

- Network

- Static IPv4 / IPv6 address
- Edit gai.conf
- Jumbo frames
- Iptables / Ip6tables

- StoRM

- Frontend
- Backend
- Database (MySQL)
- GridFTP
- GridHTTPs
- Filesystem via IPv4



Current Network Status

Last Updated: Mon Jun 9 23:21:46 BST 2014
 Updated every 601 seconds
 Nagios® Core™ 3.3.1 - www.nagios.org
 Logged in as /C=UK/O=eScience/OU=QueenMaryLondon/L=Physics/CN=christopher walker

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[View Service Status Detail For All Hosts](#)

Host Status Totals

Up	Down	Unreachable	Pending
1	0	0	0
<i>All Problems</i>		<i>All Types</i>	
0		1	

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
8	0	0	1	0
<i>All Problems</i>		<i>All Types</i>		
1		9		

Service Status Details For Host 'se02.esc.qmul.ac.uk'

Host	Service	Status	Last Check	Duration	Attempt	Status Information
se02.esc.qmul.ac.uk	hr.srce.SRM2-CertLifetime	CRITICAL	06-09-2014 23:11:14	13d 4h 40m 32s	2/2	(null)
	org.sam.SRM-All-ipv6.hepix.org	OK	06-09-2014 22:26:10	0d 6h 55m 36s	1/4	OK: success.
	org.sam.SRM-Del-ipv6.hepix.org	OK	06-09-2014 22:26:23	4d 5h 10m 20s	1/4	OK: File was deleted from SRM.
	org.sam.SRM-Get-ipv6.hepix.org	OK	06-09-2014 22:26:23	4d 5h 10m 20s	1/4	OK: File was copied from SRM. Diff successful.
	org.sam.SRM-GetSURLs-ipv6.hepix.org	OK	06-09-2014 22:26:10	4d 5h 10m 36s	1/4	OK: Got SRM endpoint(s) and Storage Path(s) from BDII
	org.sam.SRM-GetSURLs-ipv6.hepix.org	OK	06-09-2014 22:26:21	4d 5h 10m 22s	1/4	OK: protocols OK-[root, file, https, gsiftp]
	org.sam.SRM-Ls-ipv6.hepix.org	OK	06-09-2014 22:26:13	4d 5h 10m 32s	1/4	OK: listing [/ipv6.hepix.org/testfile-put-1402349170-7bdafd6a291c.txt]-ok:
	org.sam.SRM-LsDir-ipv6.hepix.org	OK	06-09-2014 22:26:10	0d 6h 55m 36s	1/4	OK: Storage Path[/ipv6.hepix.org]-ok:
	org.sam.SRM-Put-ipv6.hepix.org	OK	06-09-2014 22:26:13	4d 5h 10m 32s	1/4	OK: File was copied to SRM.

9 Matching Service Entries Displayed

- Components on different machines not tested
 - Rumours of mysql not supporting IPv6
- Issues
 - GridFTP incorrectly logs of IPv6 addresses (GGUS 102900)
 - Backend doesn't correctly start after a reboot

• May be a QMUL specific problem

- StoRM works OK in testing
- Known issues
 - Need updated gai.conf to prefer dual stack (GGUS 99461)
 - GridFTP reporting of IP address (GGUS 102900)
 - Backend not starting correctly on reboot
 - Needs investigation
 - If you use IP instead of the hostname in your SURLS you have to add the IPv6 full SRM endpoint to the list of the SRM endpoints managed by the Backend. GGUS 99461
- QMUL likely to turn on IPv6 on one GridFTP server in production soon