



Bristol T2

A short site report



Past few weeks



T2_UK_SGrid_Bristol																						
Site Readiness Status: R R R R R R R R R W R R W R R R																						
Daily Metric: O O O O O O O O O O O O O O E O O E O O O																						
Maintenance:	Up	~	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	UD	UD	Up	Up	Up	Up			
HammerCloud:	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	n/a	100%	100%	100%	100%	99%	100%	100%	98%			
SAM Availability:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	20%	100%	100%	78%	100%	100%	92%			
Good T2 links from T1s:	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	0/4	4/4	4/4	4/4	4/4	4/4	4/4			
Good T2 links to T1s:	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	0/6	5/6	5/6	5/6	5/6	5/6	5/6			
Active T2 links from T1s:	5	5	5	5	8	8	5	5	5	5	8	8	5	5	5	5	8	8	8			
Active T2 links to T1s:	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
	28	29	30	31	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
	May				Jun																	

Report made on 2013-06-18 10:35:02 (UTC)



NFS server for gridmapdir/host for Apel EMI-2 node died

NFS migrated to another server

Recovered CEs and SE with the help of Kashif (needed re-yaim)



Current status



- Everything is working again except accounting
- Preparing new EMI-3
 - Following the yaim free user guide
 - Putting the information into puppet
- Next step will be to update the Apel parser on the CEs



Next few weeks

- Finish new Apel Publisher + update on Ces
- Add new SL 6.4 CE (EMI-3)
 - This will be used for the experimental cluster (DICE)
 - Configured via Puppet
- Configure DICE WNs
- Add Bristol T2 under Puppet control
 - Initially without major changes
 - Migrate to SL 6 and full Puppet control once happy with DICE



Hardware T2



- 23 WNs
 - 2 x AMD Opteron 2378 (2.4 GHz, 4C)
 - 16 GB RAM
 - 2 x 1 TB HDDs
- 9 WNs
 - 2 x Intel Xeon E5405 (2 GHz, 4C, 6M Cache)
 - 16 GB RAM
 - 1 x 1 TB HDD



Hardware DICE



- 11 x WNs Dell R510
 - 2 x Intel Xeon E5645 Processor (2.40GHz, 6C, 12M Cache, 5.86 GT/s QPI, 80W TDP, Turbo, HT)
 - 24 GB RAM
 - 12 x 2 TB HDDs
- 12 x WNs Dell R415
 - 2 x AMD Opteron 4284 Processor (3.0GHz, 8C, 8M L2/8M L3 Cache, 95W)
 - 32 GB RAM
 - 2 x 2 TB HDDs (1 with 3 x 4 TB)



Total hardware



- Current T2
 - 256 cores, 512 GB RAM
 - 55 TB of mostly not used disk
 - 117 to 200 TB of GPFS storage
- DICE
 - 324 cores, 648 GB RAM
 - 284.2 TB as HDFS (not only HEP though)



Staff



- 1 – 1.2 FTE (me + some fraction of Winnie's 20% for PP)
- Hope to reduce my contribution in a few months in favour of physics
- Puppet should help to make this possible



Since HEPSYSMAN



- Puppet was a big topic at HEPSYSMAN
- Continued on TB-support mailing list (awaiting admin approval to contribute to the discussion)
- Topics covered there:
 - Modules should be site-independent
 - Data-code separation (hiera, scripts)
 - Role/node/atom model
- Topics not covered:
 - Monitoring of puppet



Foreman



- At Bristol we use Puppet 3.2.2 + Foreman 1.2RC2
- Foreman acts as:
 - Monitoring of puppet distribution (reports)
 - Provider of Roles/node definitions (puppet site.pp is empty!): assigns puppet classes
 - Provides data (hiera alternative, works)
 - Collector of facts and their historic evolution (aka trends)
 - And provisioning of machines, etc. (too much to cover here)



Foreman

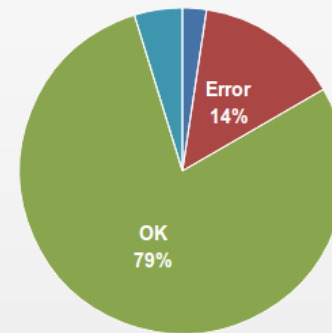


Overview

Filter ... Search

Host Configuration Status

Hosts that had performed modifications without error	1
Hosts in error state	6
Good host reports in the last 35 minutes	33
Hosts that had pending changes	0
Out of sync Hosts	2
Hosts with no reports	0
Hosts with alerts disabled	0

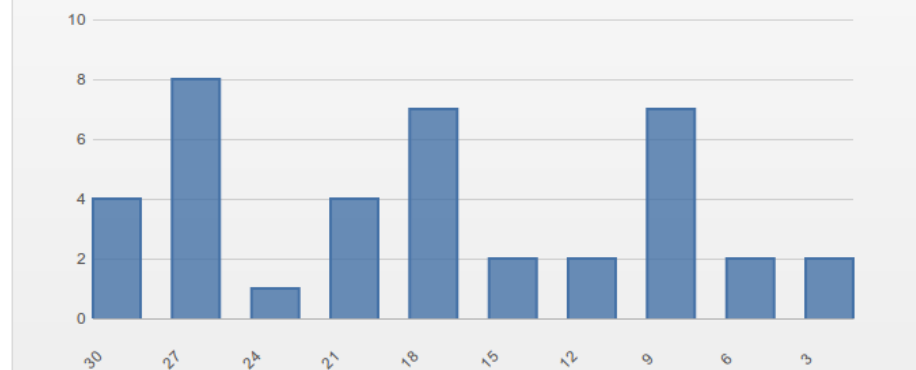


Total Hosts: 42

Latest Events

Host	A	R	F	FR	S	P
hd-38-04.di...	0	0	0	0	6	0
test-vm-wl...	0	0	0	0	6	0
hd-38-03.di...	0	0	2	0	6	0
vm-ci.dice...	0	0	0	0	6	0
hd-37-02.di...	0	0	0	0	6	0
jt-37-00.di...	0	0	0	0	6	0

Run distribution in the last 30 minutes





Foreman

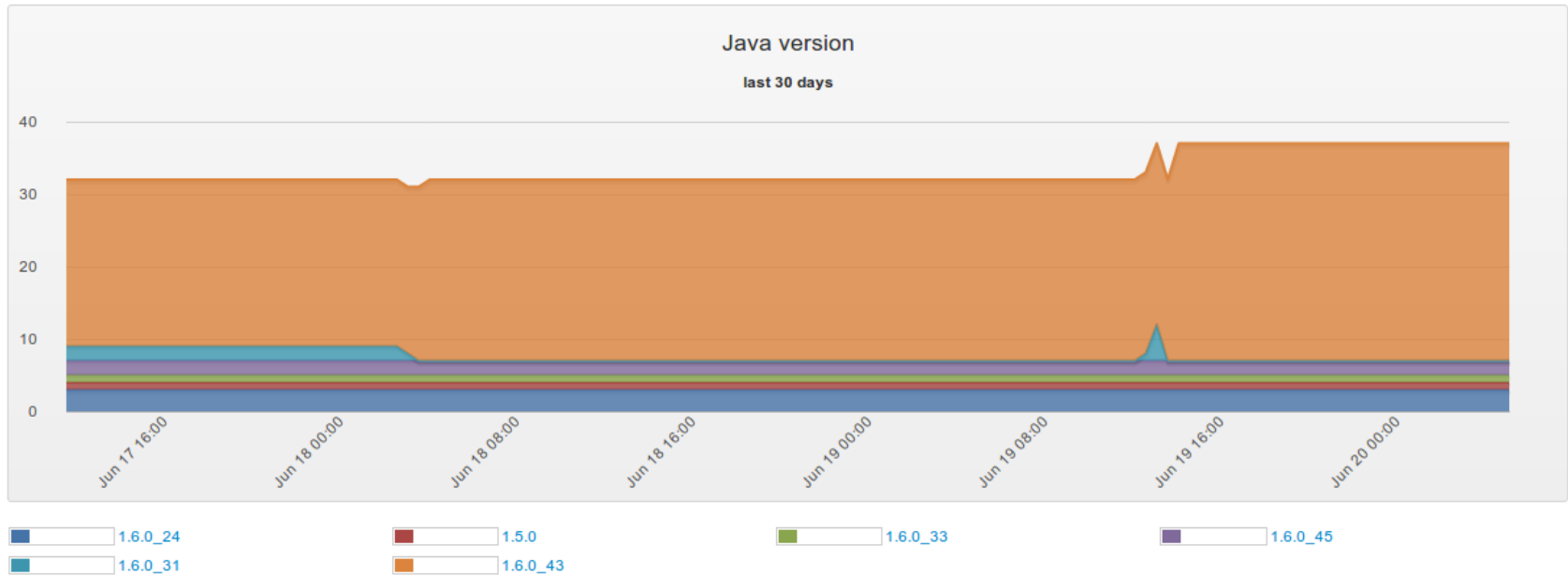


FOREMAN Luke Kreczko

Dashboard Hosts Reports Facts Audits Statistics **Trends** More

Trends for Java version

Trend of the last days.





Foreman

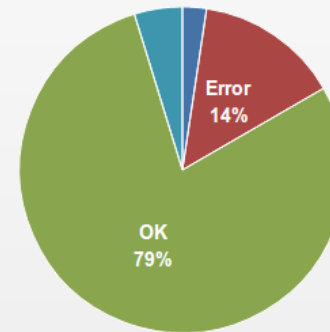


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