



Report Summary

 ${\bf Date:\ June\ 18,\ 2011,\ midnight}$

Stanford

ID: 1

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Cluster: hmidb0	
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Feedback Summary

Status	Title	Summary
WARN	Cluster [hmidb0]; Service [base]: BGWriter	Still higher checkpoint pages than bgwriter pages.
	maxpages tuning	
WARN	Cluster [hmidb0]; Service [base]: Index Hit Ratios	The index hit ratios dropped dramatically
INFO	Cluster [hmidb0]; Service [base]: Average Traffic	Average traffic per day
WARN	Cluster [hmidb0]; Service [base]: Tables reads climbing	Tables are continuing to be read more often
INFO	Cluster [hmidb0]; Service [base]: BGWriter Stops	BGWriter Stops Spike
INFO	Cluster [hmidb0]; Service [base]: Explain Analyze schedule	Awaiting approval of Explain Analyze schedule for query tuning
WARN	Cluster [hmidb0]; Service [base]: Buffers Written by Backend Processes	Tuning the buffers written by background processes
INFO	Cluster [hmidb0]; Service [base]: Checkpoints	Requested Checkpoints May Show Problems
WARN	Cluster [hmidb0]; Service [base]: Table Dead Rows	aia_test.lev1p5 has a very high number of dead rows
WARN	Cluster [hmidb0]; Service [base]: Live vs Dead Rows	drms_sessions tables contain high amounts of dead rows
INFO	Cluster [hmidb0]; Service [base]: Table Block Stats	tables aia.lev0 and hmi.lev1 have high disk reads
INFO	Cluster [hmidb0]; Service [base]: Slony lag spike on 2011-06-10	Slony lag spike on begining on 2011-06-10
INFO	Cluster [hmidb0]; Service [query]: Query Tuning	We will be using the pgfouine reports for query tuning
WARN	Cluster [hmidb2]; Service [slony]: SLONY lag on $6/3$	SLONY lags peak to over 20,000 seconds on $6/3$
WARN	Cluster [hmidb2]; Service [slony]: HMIDB2 low on disk space	HMIDB2 is low on disk space on root partition

Cluster: hmidb0

 $Collector\ UUID:\ 423971c4-b256-11df-8c2d-0800274182f7$

Cluster ID: 1

Operating System: None Host Name or IP: 192.168.0.49

Postgres Port: 5432

Subscribed Services

Service	Description
Query	pgFouine reporting
Base	Base monitoring service
System	SSH-based system and I/O stats

Service: Query

pgFouine reporting

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INFORMATION	We will be using the pgfouine reports for query tuning
	We will be moving on query tuning, using up to half of your admin pack hours to do so.
	Watch the pgfouine html reports for changes in the coming weeks and months.
References	$423971c4-b256-11df-8c2d-0800274182f7.1. query. cust_cluster.report.html$

Service: Base

Base monitoring service

WARNING	Still higher checkpoint pages than bgwriter pages.
WARNING	We are still seeing more checkpoint pages being writtern than bgwriter pages, we will be
	increase bgwriter_lru_maxpages to 500 from 250, and set checkpoint_timeout to 40min
	for the same reason.
References	423971c4-b256-11df-82d-0800274182f7.1.base.cust cluster.report.pdf
WARNING	The index hit ratios dropped dramatically
	On the 24th of May, 2011, index hit ratios dropped from an average of about 99% to a
	maximum of 50%. This could be due to a sudden jump in the amount of data being read,
	resulting in more data being pushed out of memory and then being read from disk. We
References	request some admin pack hours to investigate this and see what may have caused this. 423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_idx.report.pdf
INFORMATION	
INFORMATION	Average traffic per day
D -f	Your average traffic per day over the last week is approximately 1,576 MB/s
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_cluster.report.pdf
WARNING	Tables are continuing to be read more often
	Table hit ratios are decreasing, dead space is climbing, and block stats are showing
	significantly more disk reads than before. We highly recommend using some of your admin
	pack hours to have us analyze the source of this and discover some way of bringing your
References	hit ratios back to where they used to be.
	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_tab.report.pdf
INFORMATION	BGWriter Stops Spike
	This past week we did not see any huge spikes like we've seen over the past month.
D -f	However, we'll continue to monitor it.
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_cluster.report.pdf
INFORMATION	Awaiting approval of Explain Analyze schedule for query tuning
	We propose setting up a schedule where we can have queries set up to run EXPLAIN
	ANALYZE on the database during non-peak hours (say midnight till 6AM), to allow us to
	get timings and work on improving them. Once approved, this schedule will be used for
D. C	ongoing query tuning when problematic queries arise.
References	423971c4-b256-11df-8c2d-0800274182f7.1.query.cust_cluster.report.html
WARNING	Tuning the buffers written by background processes
	After doing some research, we found that the metric, 'Buffers Written by
	Background Processes (NOT the BGWriter)', shows us the number of buffers that are written directly to disk because the buffer pool is not set large enough to contain the
	data from an insert or update statement. We are requesting that you allow us to use some
	of your admin pack hours to look at your server and see if we can increase your buffer pool
	enough to reduce the numbers on this graph significantly.
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust cluster.report.pdf
INFORMATION	Requested Checkpoints May Show Problems
INFORMATION	We would like to know why we are occasionally seeing requested checkpoints. While
	requesting checkpoints may not be a bad thing, it depends on the reason - if you are
	requesting checkpoints hay not be a bad timing, it depends on the reason - it you are requesting checkpoints because you have to for performance, stability, or other similar
	reasons, there may be some other problem. Otherwise, it's probably not a big deal.
References	423971c4-b256-11df-82d-0800274182f7.1.base.cust cluster.report.pdf
WARNING	aia_test.lev1p5 has a very high number of dead rows
WIIIIIII	Table aia test.lev1p5 has an average of 4,000 deletes per hour, causing a high amount of
	deadspace to grow rapidly. Autovacuum doesn't vacuum the table until there are
	over 10,000 dead rows, which can happen once a week or even less. We suggest you use
	some admin pack hours to allow us to prepare a new vacuum strategy for this table.
References	423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf
WARNING	drms sessions tables contain high amounts of dead rows
Willertitt	In our top ten tables with a high amount of dead rows, five of them are the drms session
	tables from various schemas. When looking behind these tables, they all receive a high
	number of UPDATEs, but low INSERTs and DELETEs. Suggestion: Review vacuum
	strategy for the drms_session tables. We suggest using admin pack hours to allow us to
	'; rebuild $'$; these tables to eliminate the dead space.
References	423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf
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INFORMATION	tables aia.lev0 and hmi.lev1 have high disk reads
	Two tables have a high number of reads from disc, they are aia.lev0 and hmi.lev1.
	Previous months data shows that this is unusual, as normally the data is retrieved from
	memory. Suggestion: We are requesting that you allow us to use some of your admin pack
	hours to do some buffercache stats research on these tables.
References	$423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf$
INFORMATION	Slony lag spike on begining on 2011-06-10
	There was no large Slony lag spike this last week like there was on 2011-06-10
References	423971c4-b256-11df-8c2d-0800274182f7.3.slony.cust_cluster.report.pdf

Cluster: hmidb2

 $Collector\ UUID:\ 423971c4-b256-11df-8c2d-0800274182f7$

Cluster ID: 3

Operating System: None Host Name or IP: 192.168.0.76

Postgres Port: 5432

Subscribed Services

Service	Description
Query	pgFouine reporting
Slony	slony monitoring
System	SSH-based system and I/O stats

Service: Slony

slony monitoring

WARNING	SLONY lags peak to over $20,000$ seconds on $6/3$
	SLONY lag peaks to more than 20,000 seconds, recommend use of admin pack hours to
	investigate the cause.
References	$423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_idx.re$
WARNING	HMIDB2 is low on disk space on root partition
	HMIDB2 only has 3.0GB available disk space on the root partition. The partition is
	at 94% full and hasn & #39;t shown signs of free space decreasing, but it could pose a
	problem again.
References	$423971c4 - b256 - 11df - 8c2d - 0800274182f7.3. system_stats. cust_disk.report.pdf$