



Consistent State

Phone: 303-217-0961

E-Mail: kevink@consistentstate.com

Web: <http://www.consistentstate.com/>

Report Summary

Date: 2011-01-28

Stanford

ID: 1

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Summary

Status		
INFO	Cluster [hmidb0]; Service [base]: Table Hit Ratios	Hit ratios dropping significantly
INFO	Cluster [hmidb0]; Service [base]: Vacuums	Vacuums are looking a little worrisome
WARN	Cluster [hmidb0]; Service [base]: hmi.lev0a Block Stats	Table hmi.lev0a has high disk reads
WARN	Cluster [hmidb0]; Service [base]: Table Dead Space	aia_test.synoptic2 dead space still growing
INFO	Cluster [hmidb0]; Service [base]: Cluster Growth	Seeing odd cluster growth
INFO	Cluster [hmidb0]; Service [base]: Table Block Stats	hmi.lev1_nrt has growing reads
INFO	Cluster [hmidb0]; Service [base]: BGWriter Stops	BGWriter Stops Slightly High
INFO	Cluster [hmidb0]; Service [base]: Buffers Not Written by the BGWriter	Buffers not written by the bgwriter are high
INFO	Cluster [dcs2: dcs0 warm standby]; Service [warm_standby]: Infrequent WAL Archives	WAL Archives Still Infrequent
INFO	Cluster [dcs2: dcs1 warm standby]; Service [warm_standby]: Infrequent WAL Archives	WAL Archives Still Infrequent

Cluster: hmidb0

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

Cluster ID: 1

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 systats & iostats

Service: Base

Base monitoring service

INFORMATION	Hit ratios dropping significantly
	Over the course of our monitoring period, the hit ratios for a number of tables have been dropping significantly. Some have gone from 90% memory hits vs. disk reads all the way down to 0%. You may want to review the Hit Ratio Stats in the table report; if queries against any of the tables in that list are performing badly, we may need to think up a strategy to keep them in memory more often.
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_tab.report.pdf

INFORMATION	Vacuums are looking a little worrisome
	We're going to watch this more, but we will be probably be making some vacuuming tuning recommendations down the road.
References	1.423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_cluster.report.pdf, 1.423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_db.report.pdf, 1.423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf

WARNING	Table hmi.lev0a has high disk reads
	The table hmi.lev0a has indexes on it that seem to barely ever be touched, and the table is mostly being read from disk. A new index strategy could significantly improve performance on this table.
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_tab.report.pdf

WARNING	aia_test.synoptic2 dead space still growing
	The dead space of aia_test.synoptic2 is continuing to grow to a point where performance can be affected. Once the checkpoint tuning changes are in place, we may want to implement an alternate vacuum strategy for this table.
References	423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf (graph on page 24, and graph on page 44)

INFORMATION	Seeing odd cluster growth
	Since about January 23rd, 2011, we've been seeing the cluster size jump back and forth between 350GB and 700GB. We're looking into what this means and making sure that it's not some weird bug in our data retrieval, but everything looks correct so far.
References	423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_cluster.report.pdf

INFORMATION	hmi.lev1_nrt has growing reads
	Table hmi.lev1_nrt used to have a majority of its data retrieved via memory fetches, but has been increasingly going to disk, resulting in this month's data showing more than double the disk reads from last month, with no increase in memory hits.
References	423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf

INFORMATION	BGWriter Stops Slightly High
	We want to watch the trends for this based on the recent checkpoint tuning for a week or so; if little or no improvement is noticed, we will likely recommend some additional BGWriter-specific changes.
References	1.423971c4-b256-11df-8c2d-0800274182f7.1.jsoc.base.cust_tab.report.pdf

INFORMATION	Buffers not written by the bgwriter are high
	While we still probably need more metrics to show us more details about buffers not written by the bgwriter, we will continue to watch the trends for this based on the recent checkpoint tuning for a bit. As with the BGWriter Stops, if little or no improvement is noticed, we will likely recommend some additional BGWriter-specific changes.
References	1.423971c4-b256-11df-8c2d-0800274182f7.1.base.cust_cluster.report.pdf

Cluster: dcs2: dcs0 warm standby

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

Cluster ID: 6

Host Name or IP: 192.168.0.12

Postgres Port: 5430

Subscribed Services

Service	Description
Warm Standby	Warm Standby monitoring service

Service: Warm Standby

Warm Standby monitoring service

INFORMATION	WAL Archives Still Infrequent
	You may want to use some of your admin pack hours to have us look at your archive_timeout values on your warm standby instances to make sure that you won't be losing large amounts of data if a failover happens
References	1.423971c4-b256-11df-8c2d-0800274182f7.6.warm_standby.cust_cluster.report.pdf

Cluster: dcs2: dcs1 warm standby

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

Cluster ID: 7

Host Name or IP: 192.168.0.12

Postgres Port: 5431

Subscribed Services

Service	Description
Warm Standby	Warm Standby monitoring service

Service: Warm Standby

Warm Standby monitoring service

INFORMATION	WAL Archives Still Infrequent
	You may want to use some of your admin pack hours to have us look at your archive_timeout values on your warm standby instances to make sure that you won't be losing large amounts of data if a failover happens
References	1.423971c4-b256-11df-8c2d-0800274182f7.7.warm_standby.cust_cluster.report.pdf
