

## 1. Objectives of this testing

1.1 This testing is focused on a demonstration of an unexpected behavior of compaction process in case if there are expired items in the bucket. To avoid possible and unnecessary discussion about auto-compaction («did auto-compaction happen or not ?») during test-sequence only manual compaction is called after documents expiration period (see «Testing sequence for each installation» below).

## 2. Installations description

2.1 Common settings for all installations: 3 nodes (VM) with 4VCPU + 4GB RAM, 20G HDD (SATA), all services are enabled (data, index, query), Ubuntu 14.04 64-bit, Data RAM quota = 2400M, Index RAM Quota = 256M, bucket name = «default», bucket size = 128M, i/o-priority = high, replicas = 1, view index replicas = enabled, flush = enabled, autocompaction settings left unchanged at all.

### 2.2 Different settings for installations:

Installation name	Settings
4.1.1.GA.F	Couchbase Server Enterprise 4.1.1-5914 (GA), full ejection
4.1.1.GA.V	Couchbase Server Enterprise 4.1.1-5914 (GA), value ejection

## 3. Testing methodology

3.1 Make 100K empty docs upserts with TTL = 1 minute. Upserts are performed multi-threaded (10 threads, thread ids = [0..9]) with Java SDK 2.3.1 via java sync call bucket.upsert(). Keys are formed as I:T:T, where «I» = thread id, «T» = current timestamp (milliseconds).

**A. To check after:** number of docs in «default» bucket via UI => Data Buckets. **Expected** = 100K.

**B. To do after:** wait 2 minutes

3.2 Run *manual compaction* via UI => Data Buckets => «default» => Compact

**A. To check after:** num of docs in bucket via UI => Data Buckets. **Expected** = 0.

3.3 Press UI => Data Buckets => Documents button

**A. To check after:** message from UI. **Expected** = «There are currently no documents in this bucket corresponding to the search criteria».

**B. To check after:** ensure there are no more than 1 (last seq.no) entry of purged items per bucket via «awk -F"failed to fetch data from database, " '{ print \$2; }'

```
/opt/couchbase/var/lib/couchbase/logs/memcached.log.* | grep vBucket | sort | uniq | awk '{ count[$1]++ } END { for(i in count) if(count[i] > 1) print i,count[i] }' | sort». Expected: empty list
```

3.4 Make 1000 empty docs upserts with TTL = 1 minute. Upserts are performed single-threaded (1 thread) with Java SDK 2.3.1 via java sync call bucket.upsert(). Keys are formed as X:D, where «X» = fixed string «purger», «D» = sequential insertion id [0..999].

**A. To check after:** number of docs in «default» bucket via UI => Data Buckets. **Expected** = 1000.

**B. To do after:** wait 2 minutes

3.5 Run *manual compaction* via UI => Data Buckets => «default» => Compact

**A. To check after:** num of docs in bucket via UI => Data Buckets. **Expected** = 0.

3.6 Press UI => Data Buckets => Documents button

**A. To check after:** message from UI. **Expected** = «No docs found».

**B. To check after:** ensure there are no more than 1 (last seq.no) entry of purged items per bucket via «awk -F"failed to fetch data from database, " '{ print \$2; }'

/opt/couchbase/var/lib/couchbase/logs/memcached.log.\* | grep vBucket | grep purger | sort | uniq | awk '{ count[\$1]++ } END { for(i in count) if(count[i] > 1) print i,count[i] }' | sort». **Expected: empty list**

#### 4. Results

Installation	3.1.A (number of docs in bucket after 100K upserts)	3.2.A (number of docs in bucket after expiration)	3.3.A (UI message as expected?)	3.3.B (is there just 1 entry per vBucket after manual compaction?)	3.4.A (number of docs in bucket after 1000 upserts)	3.5.A (number of docs in bucket after expiration)	3.6.A (UI message as expected?)	3.6.B (is there just 1 entry per vBucket after manual compaction?)
4.1.1.GA.F	100K	0	Yes	No (more)	1000	0	Yes	No (more+new)
4.1.1.GA.V	100K	0	Yes	No (? no even 1)	1000	0	Yes	No (? no even 1)

#### 5. Additional information and suggestions

5.1 Seems like new itmes are «accumulated», or, maybe there are just separate cache to list items in the UI. Anyway, such behavior is no expected, as i understand.

#### 6. Testing sequence

##### 6.1. 4.1.1.GA.F

6.1.1. Inserted 100K. Checked via UI, num of items = 100K. Waited for 2 minutes.

6.1.2. Runned manual compaction. Checked via UI, num of items = 0.

6.1.3. Pressed UI => Data Buckets => Documents button. Checked UI message, got «There are currently no documents in this bucket corresponding to the search criteria». Checked log, expected empty list, but found:

```
root@182:/opt/couchbase/var/lib/couchbase/logs# awk -F"failed to fetch data from database, " '{ print $2; }'
/opt/couchbase/var/lib/couchbase/logs/memcached.log.* | grep vBucket | sort | uniq | awk '{ count[$1]++ } END { for(i in count) if(count[i] > 1) print
i,count[i] }' | sort
vBucket=1000 95
vBucket=1001 86
vBucket=1002 102
vBucket=1003 90
vBucket=1004 101
vBucket=1005 102
vBucket=1006 96
vBucket=1007 109
vBucket=1008 102
vBucket=1009 110
vBucket=1010 91
vBucket=1011 89
vBucket=1012 85
vBucket=1013 98
vBucket=1014 93
vBucket=1015 102
vBucket=1016 97
vBucket=1017 86
vBucket=1018 92
vBucket=1019 91
vBucket=1020 88
vBucket=1021 94
vBucket=1022 87
vBucket=1023 91
vBucket=683 103
vBucket=684 100
vBucket=685 90
vBucket=686 117
vBucket=687 104
vBucket=688 80
vBucket=689 92
vBucket=690 88
```

vBucket=691 96  
vBucket=692 105  
vBucket=693 104  
vBucket=694 95  
vBucket=695 123  
vBucket=696 97  
vBucket=697 93  
vBucket=698 93  
vBucket=699 84  
vBucket=700 103  
vBucket=701 106  
vBucket=702 99  
vBucket=703 80  
vBucket=704 111  
vBucket=705 112  
vBucket=706 90  
vBucket=707 114  
vBucket=708 86  
vBucket=709 89  
vBucket=710 109  
vBucket=711 103  
vBucket=712 95  
vBucket=713 99  
vBucket=714 104  
vBucket=715 102  
vBucket=716 95  
vBucket=717 98  
vBucket=718 89  
vBucket=719 89  
vBucket=720 97  
vBucket=721 104  
vBucket=722 102  
vBucket=723 102  
vBucket=724 111  
vBucket=725 115  
vBucket=726 92  
vBucket=727 99  
vBucket=728 100  
vBucket=729 88  
vBucket=730 90  
vBucket=731 100  
vBucket=732 102  
vBucket=733 106  
vBucket=734 111  
vBucket=735 90  
vBucket=736 88  
vBucket=737 97  
vBucket=738 108  
vBucket=739 109  
vBucket=740 87  
vBucket=741 84  
vBucket=742 85  
vBucket=743 113  
vBucket=744 100  
vBucket=745 112  
vBucket=746 95  
vBucket=747 91  
vBucket=748 97  
vBucket=749 89  
vBucket=750 99  
vBucket=751 98  
vBucket=752 95  
vBucket=753 108  
vBucket=754 111  
vBucket=755 108  
vBucket=756 92  
vBucket=757 106  
vBucket=758 103  
vBucket=759 98  
vBucket=760 100  
vBucket=761 87  
vBucket=762 115  
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vBucket=764 110  
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vBucket=766 96  
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vBucket=768 95  
vBucket=769 102

vBucket=770 100  
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vBucket=773 102  
vBucket=774 95  
vBucket=775 89  
vBucket=776 103  
vBucket=777 91  
vBucket=778 84  
vBucket=779 101  
vBucket=780 82  
vBucket=781 101  
vBucket=782 108  
vBucket=783 109  
vBucket=784 91  
vBucket=785 101  
vBucket=786 99  
vBucket=787 113  
vBucket=788 94  
vBucket=789 104  
vBucket=790 80  
vBucket=791 94  
vBucket=792 92  
vBucket=793 89  
vBucket=794 103  
vBucket=795 91  
vBucket=796 97  
vBucket=797 108  
vBucket=798 100  
vBucket=799 90  
vBucket=800 103  
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vBucket=803 104  
vBucket=804 95  
vBucket=805 92  
vBucket=806 102  
vBucket=807 93  
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vBucket=809 108  
vBucket=810 99  
vBucket=811 93  
vBucket=812 104  
vBucket=813 93  
vBucket=814 99  
vBucket=815 95  
vBucket=816 105  
vBucket=817 96  
vBucket=818 108  
vBucket=819 87  
vBucket=820 111  
vBucket=821 92  
vBucket=822 87  
vBucket=823 84  
vBucket=824 91  
vBucket=825 88  
vBucket=826 103  
vBucket=827 98  
vBucket=828 94  
vBucket=829 83  
vBucket=830 97  
vBucket=831 98  
vBucket=832 114  
vBucket=833 105  
vBucket=834 98  
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vBucket=836 91  
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vBucket=867 97  
vBucket=868 85  
vBucket=869 81  
vBucket=870 121  
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vBucket=872 100  
vBucket=873 102  
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vBucket=974 97  
vBucket=975 102  
vBucket=976 85  
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vBucket=978 92  
vBucket=979 109  
vBucket=980 97  
vBucket=981 92  
vBucket=982 106  
vBucket=983 111  
vBucket=984 86  
vBucket=985 90  
vBucket=986 94  
vBucket=987 98  
vBucket=988 100  
vBucket=989 107  
vBucket=990 93  
vBucket=991 105  
vBucket=992 99  
vBucket=993 98  
vBucket=994 90  
vBucket=995 86  
vBucket=996 98  
vBucket=997 86  
vBucket=998 100  
vBucket=999 102

Additionally, lets take a look at vBuket = 1000 as an example:

```
root@182:/opt/couchbase/var/lib/couchbase/logs# grep vBucket=1000 /opt/couchbase/var/lib/couchbase/logs/memcached.log.* | head -n 50  
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:04.769859Z WARNING (default) Warning: failed to fetch data from  
database, vBucket=1000 key=0:1469371368419:1469371368419 error=document not found [none]
```



```

database, vBucket=1000 key=2:1469371394995:1469371394995 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:07.953649Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371394995:1469371394995 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.012532Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371400608:1469371400608 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.013910Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371400608:1469371400608 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.630983Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371465581:1469371465581 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.631474Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371465616:1469371465616 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.635959Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371465581:1469371465581 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.636439Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371465616:1469371465616 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.683237Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371470644:1469371470644 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.1.txt:2016-07-24T14:51:08.687176Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=2:1469371470644:1469371470644 error=document not found [none]

```

6.1.4. Inserted 1000. Checked via UI, num of items = 1000. Waited for 2 minutes.

6.1.5. Runned manual compaction. Checked via UI, num of items = 0.

6.1.6. Pressed UI => Data Buckets => Documents button. Checked UI message, got «There are currently no documents in this bucket corresponding to the search criteria». Checked log, expected empty list, but found:

```

root@182:/opt/couchbase/var/lib/couchbase/logs# awk -F"failed to fetch data from database, " '{ print $2; }'
/opt/couchbase/var/lib/couchbase/logs/memcached.log.* | grep vBucket | grep purger | sort | uniq | awk '{ count[$1]++ } END { for(i in count)
if(count[i] > 1) print i,count[i] }' | sort
vBucket=1005 2
vBucket=1008 2
vBucket=1009 3
vBucket=1015 2
vBucket=1019 2
vBucket=1023 2
vBucket=683 2
vBucket=684 3
vBucket=685 3
vBucket=688 2
vBucket=696 2
vBucket=697 2
vBucket=702 3
vBucket=703 3
vBucket=704 2
vBucket=705 2
vBucket=710 3
vBucket=711 3
vBucket=712 2
vBucket=714 2
vBucket=715 2
vBucket=722 2
vBucket=723 2
vBucket=724 3
vBucket=725 3
vBucket=730 2
vBucket=740 2
vBucket=746 3
vBucket=747 2
vBucket=748 2
vBucket=749 2
vBucket=758 2
vBucket=760 3
vBucket=761 2
vBucket=766 2
vBucket=770 2
vBucket=772 3
vBucket=773 2
vBucket=776 2
vBucket=777 2
vBucket=778 2
vBucket=780 2
vBucket=784 2
vBucket=790 3
vBucket=791 2
vBucket=792 2
vBucket=798 2

```



vBucket=800 2  
vBucket=806 3  
vBucket=808 3  
vBucket=814 3  
vBucket=815 2  
vBucket=818 2  
vBucket=820 3  
vBucket=826 3  
vBucket=828 2  
vBucket=829 2  
vBucket=834 3  
vBucket=836 3  
vBucket=837 2  
vBucket=842 2  
vBucket=844 3  
vBucket=848 3  
vBucket=850 2  
vBucket=854 2  
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vBucket=864 2  
vBucket=870 2  
vBucket=872 2  
vBucket=878 3  
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vBucket=882 2  
vBucket=884 2  
vBucket=890 2  
vBucket=892 3  
vBucket=893 2  
vBucket=901 2  
vBucket=903 2  
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vBucket=905 3  
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vBucket=910 2  
vBucket=911 2  
vBucket=917 2  
vBucket=922 2  
vBucket=923 3  
vBucket=925 2  
vBucket=930 2  
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vBucket=953 2  
vBucket=961 2  
vBucket=968 2  
vBucket=969 2  
vBucket=974 3  
vBucket=975 3  
vBucket=976 2  
vBucket=977 2  
vBucket=979 2  
vBucket=986 2  
vBucket=987 2  
vBucket=988 3  
vBucket=989 3  
vBucket=994 2  
vBucket=995 3  
vBucket=996 2  
vBucket=997 2

Additionally, lets take a look at different vBuket = 1009 as an example. We can see, that even previous items were not purged after new were upserted:

```
root@182:/opt/couchbase/var/lib/couchbase/logs# grep vBucket=1009 /opt/couchbase/var/lib/couchbase/logs/memcached.log.* | tail -n 10
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.543886Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=9:1469371455926:1469371455926 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.545693Z WARNING (default) Warning: failed to fetch data from
```

```

database, vBucket=1009 key=9:1469371455926:1469371455926 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.180757Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=9:1469371514075:1469371514075 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.185161Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=9:1469371514075:1469371514075 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.231598Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:294 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.233951Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:294 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.234200Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:304 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.236342Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:304 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.267986Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:476 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.3.txt:2016-07-24T15:09:41.270889Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1009 key=purger:476 error=document not found [none]

```

+one more look at vBuket = 1000. Also, we can see, that previous items were not purged (watch timestamp):

```

root@182:/opt/couchbase/var/lib/couchbase/logs# grep vBucket=1000 /opt/couchbase/var/lib/couchbase/logs/memcached.log.* | tail -n 10
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.354392Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371437195:1469371437195 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.354992Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371437195:1469371437195 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.476443Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371448975:1469371448975 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.478047Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371448975:1469371448975 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.761557Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371476378:1469371476378 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.763116Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371476378:1469371476378 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.821361Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371481507:1469371481507 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.823095Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371481507:1469371481507 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.823601Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371481690:1469371481690 error=document not found [none]
/opt/couchbase/var/lib/couchbase/logs/memcached.log.2.txt:2016-07-24T15:09:40.825189Z WARNING (default) Warning: failed to fetch data from
database, vBucket=1000 key=9:1469371481690:1469371481690 error=document not found [none]

```

## 6.2. 4.1.1.GA.V

6.2.1. Inserted 100K. Checked via UI, num of items = 100K. Waited for 2 minutes.

6.2.2. Runned manual compaction. Checked via UI, num of items = 0.

6.2.3. Pressed UI => Data Buckets => Documents button. Checked UI message, got «There are currently no documents in this bucket corresponding to the search criteria». Checked log, expected empty list and got it:

```

root@182:/opt/couchbase/var/lib/couchbase/logs# awk -F"failed to fetch data from database, " '{ print $2; }'
/opt/couchbase/var/lib/couchbase/logs/memcached.log.* | grep vBucket | sort | uniq | awk '{ count[$1]++ } END { for(i in count) if(count[i] > 1) print
i,count[i] }' | sort
root@182:/opt/couchbase/var/lib/couchbase/logs#

```

6.2.4. Inserted 1000. Checked via UI, num of items = 1000. Waited for 2 minutes.

6.2.5. Runned manual compaction. Checked via UI, num of items = 0.

6.2.6. Pressed UI => Data Buckets => Documents button. Checked UI message, got «There are currently no documents in this bucket corresponding to the search criteria». Checked log, expected empty list and found it:

```

root@182:/opt/couchbase/var/lib/couchbase/logs# awk -F"failed to fetch data from database, " '{ print $2; }'
/opt/couchbase/var/lib/couchbase/logs/memcached.log.* | grep vBucket | grep purger | sort | uniq | awk '{ count[$1]++ } END { for(i in count)
if(count[i] > 1) print i,count[i] }' | sort
root@182:/opt/couchbase/var/lib/couchbase/logs#

```

Also, were there any messages at all ? No, and that's unexpected (shouldn't we see at least one entry ?):

```

root@182:/opt/couchbase/var/lib/couchbase/logs# grep vBucket /opt/couchbase/var/lib/couchbase/logs/memcached.log.*
root@182:/opt/couchbase/var/lib/couchbase/logs#

```