

Cassandra Fundamentals

Module 7

Troubleshooting



Troubleshooting Process

- | | |
|----------|---|
| 1 | <i>Ask what changed</i> |
| 2 | <i>Examine bottlenecks</i> |
| 3 | <i>Determine which nodes have problems</i> |
| 4 | <i>Find and understand errors</i> |
| 5 | <i>Determine root cause</i> |
| 6 | <i>Take corrective action</i> |

What changed?

Did it work before?

Does it work in another environment?

What's different?

- Settings
- Application Code
- Read/Write Load
- Data Volume
- Hardware
- Network

- **Did you upgrade?**

- Cassandra
- Kernel
- JVM
- Driver

- **What metrics changed?**

- OpsCenter
- Graphite, etc.

- **Change one thing at a time!**

System Resources

CPU

- Single Core utilization
- Multi Core utilization

Memory

- Heap space
- Off-heap space
- Linux page cache

- **Disk**
 - Disk space
 - I/O bandwidth
- **Network**
- **OS Resources/Limits**
 - File Handles
 - Processes
 - Mapped Memory

Linux monitoring commands

Command	What it tells you...
top	CPU utilization and memory use per process
top -H	CPU utilization per thread, memory use is still per process
df	Free disk space
iostat -x	I/O bandwidth utilization
free -m	Memory and cache usage
netstat -an	Network connections established
iftop	Network bandwidth utilization
sar	All (most) of the above, with history!

Java monitoring commands

Command	What it tells you...
jstack -l	Status and stack trace of each thread
jmap -histo	Types of objects on the heap (optionally only live objects)
jmap -heap	Size and usage of each java heap generation
jstat -gccause	Causes of gc activity
jmap -dump	Take a heap dump for further analysis
MemoryAnalyzer	Post-mortem heap-dump analysis

Cassandra Architecture

Request coordination

Read & write path

Data structures

- Memtables
- SSTables
- Tombstones
- Caches
- Bloom filters
- Index summaries

• Background Processes

- Flushes
- Compactions
- Garbage collections
- Gossip
- Hinted Handoff
- Read Repair
- Repair

nodetool commands

Command	What it tells you...
status / ring	Overall cluster status
info	Status, memory usage, and caches for a single node
tpstats	Statistics about each thread pool on a single node
cfstats	Summary statistics for all tables and keyspaces on a single node
cfhistograms	Detailed statistics for a specific table on the local node
proxyhistograms	Latency statistics for requests coordinated the local node
netstats	Network activity: streams, read repair, and in-flight commands
compactionstats	Compactions pending and in progress
compactionhistory	Historical compaction information
describecluster	Basic cluster information and schema versions

nodetool status

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - data centers

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - up or down?

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - streaming state

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ **State=Normal/Leaving/Joining/Moving**

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ **State=Normal/Leaving/Joining/Moving**

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - ip address

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
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UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - disk usage

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
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UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - token count

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - data ownership

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - host id

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owens	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

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UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - racks

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool status - down node

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.173.171.164	22.78 MB	1	16.7%	67b3823f-6663-47d0-a04f-5914081e275c	1b
DN	54.174.19.98	22.82 MB	1	16.7%	48d6f717-017b-4868-a525-b396d3f899aa	1b
UN	54.174.245.247	22.68 MB	1	16.7%	6817e9ca-e79d-4fed-946e-7318bcfd5343	1b

Datacenter: us-west

=====

Status=Up/Down

|/ State=Normal/Leaving/Joining/Moving

--	Address	Load	Tokens	Owns	Host ID	Rack
UN	54.153.107.100	22.72 MB	1	16.7%	4abf0a7a-00ef-441a-9f70-046cd9fe1c0c	1a
UN	54.153.108.157	22.79 MB	1	16.7%	303f08dd-2a19-4175-98e7-97920232855b	1a
UN	54.153.39.203	22.67 MB	1	16.7%	d1a57a91-7aef-4878-a056-88949920724c	1a

nodetool ring - every token

Note: Ownership information does not include topology; for complete information, specify a keyspace

Datacenter: us-east

=====

Address	Rack	Status	State	Load	Owns	Token
54.174.19.98	1b	Down	Normal	22.82 MB	16.67%	-3074457345618258603
54.174.245.247	1b	Up	Normal	22.68 MB	16.67%	-9223372036854775808
54.173.171.164	1b	Up	Normal	22.78 MB	16.67%	-6148914691236517206
						-3074457345618258603

Datacenter: us-west

=====

Address	Rack	Status	State	Load	Owns	Token
54.153.39.203	1a	Up	Normal	22.67 MB	16.67%	6148914691236517205
54.153.107.100	1a	Up	Normal	22.72 MB	16.67%	0
54.153.108.157	1a	Up	Normal	22.79 MB	16.67%	3074457345618258602
						6148914691236517205

nodetool info

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - status info

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
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0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - transport info

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - gossip generation

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```


nodetool info - uptime

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - memory usage

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - exception count

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - key cache

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
              0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
            NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
               NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - row cache

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - counter cache

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - cache size

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool info - cache hit rate

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```


nodetool info - cache save period

```
ID : 6817e9ca-e79d-4fed-946e-7318bcfd5343
Gossip active : true
Thrift active : true
Native Transport active: true
Load : 22.68 MB
Generation No : 1426523950
Uptime (seconds) : 1557
Heap Memory (MB) : 270.85 / 1842.00
Off Heap Memory (MB) : 0.11
Data Center : us-east
Rack : 1b
Exceptions : 0
Key Cache : entries 156962, size 12.83 MB, capacity 100 MB, 649 hits, 713 requests,
0.910 recent hit rate, 14400 save period in seconds
Row Cache : entries 0, size 0 bytes, capacity 0 bytes, 0 hits, 0 requests,
NaN recent hit rate, 0 save period in seconds
Counter Cache : entries 0, size 0 bytes, capacity 50 MB, 0 hits, 0 requests,
NaN recent hit rate, 7200 save period in seconds
Token : 80372383360720788
```

nodetool tpstats

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	100
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

nodetool tpstats – dropped messages

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BINARY	0
REQUEST_RESPONSE	0
PAGED_RANGE	0
READ_REPAIR	0

nodetool tpstats - reads

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
...					

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BINARY	0
REQUEST_RESPONSE	0
PAGED_RANGE	0
READ_REPAIR	0

nodetool tpstats - writes

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0

...

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BINARY	0
REQUEST_RESPONSE	0
PAGED_RANGE	0
READ_REPAIR	0

nodetool tpstats - responses to coordinator

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
...					

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BINARY	0
REQUEST_RESPONSE	0
PAGED_RANGE	0
READ_REPAIR	0

nodetool tpstats - flushes

Pool Name	Active	Pending	Completed	Blocked	All time blocked
...					
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	100
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BINARY	0
REQUEST_RESPONSE	0
PAGED_RANGE	0
READ_REPAIR	0

nodetool tpstats - compactions

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTMAPX	0

nodetool tpstats - read repairs

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTNARY	0

nodetool tpstats - hinted handoff

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTMAPX	0

nodetool tpstats - gossip

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTNARY	0

nodetool tpstats - schema migrations

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTMAPX	0

nodetool tpstats - repairs

Pool Name	Active	Pending	Completed	Blocked	All time blocked
MutationStage	0	0	10637419	0	0
ReadStage	0	0	146995	0	0
RequestResponseStage	0	0	7645246	0	0
ReadRepairStage	0	0	1494	0	0
CounterMutationStage	0	0	0	0	0
MiscStage	0	0	0	0	0
AntiEntropySessions	1	1	166	0	0
HintedHandoff	0	1	131	0	0
GossipStage	0	0	198095	0	0
CacheCleanupExecutor	0	0	0	0	0
InternalResponseStage	0	0	16	0	0
CommitLogArchiver	0	0	0	0	0
CompactionExecutor	0	0	63008726	0	0
ValidationExecutor	0	0	5186	0	0
MigrationStage	0	0	16	0	0
AntiEntropyStage	0	0	13711	0	0
PendingRangeCalculator	0	0	12	0	0
Sampler	0	0	0	0	0
MemtableFlushWriter	0	0	1755	0	0
MemtablePostFlush	0	0	7660	0	0
MemtableReclaimMemory	0	0	1755	0	0

Message type	Dropped
READ	0
RANGE_SLICE	0
_TRACE	0
MUTATION	18542
COUNTER_MUTATION	0
BTMAPX	0

nodetool cfstats

```
Keyspace: foo
  Read Count: 9413
  Read Latency: 1.2054603208328907 ms.
  Write Count: 6287
  Write Latency: 0.18585780181326547 ms.
  Pending Flushes: 0
    Table: bar
    SSTable count: 2
    Space used (live): 15646502
    Space used (total): 15646502
    Space used by snapshots (total): 105396159
    Off heap memory used (total): 23435
    SSTable Compression Ratio: 0.39842540307866203
    Number of keys (estimate): 10588
    Memtable cell count: 3707
    Memtable data size: 292754
    Memtable off heap memory used: 0
    Memtable switch count: 74
    Local read count: 3145
    Local read latency: 0.606 ms
    Local write count: 1253
    Local write latency: 0.289 ms
    Pending flushes: 0
```

nodetool cfstats (2)

```
Bloom filter false positives: 0
Bloom filter false ratio: 0.00000
Bloom filter space used: 13192
Bloom filter off heap memory used: 13176
Index summary off heap memory used: 4403
Compression metadata off heap memory used: 5856
Compacted partition minimum bytes: 125
Compacted partition maximum bytes: 43388628
Compacted partition mean bytes: 4774
Average live cells per slice (last five minutes): 6.699523052464229
Maximum live cells per slice (last five minutes): 464.0
Average tombstones per slice (last five minutes): 2.5837837837837836
Maximum tombstones per slice (last five minutes): 180.0
```

nodetool cfstats - read/write counts

Keyspace: foo

Read Count: 9413

Read Latency: 1.2054603208328907 ms.

Write Count: 6287

Write Latency: 0.18585780181326547 ms.

Pending Flushes: 0

Table: bar

SSTable count: 2

Space used (live): 15646502

Space used (total): 15646502

Space used by snapshots (total): 105396159

Off heap memory used (total): 23435

SSTable Compression Ratio: 0.39842540307866203

Number of keys (estimate): 10588

Memtable cell count: 3707

Memtable data size: 292754

Memtable off heap memory used: 0

Memtable switch count: 74

Local read count: 3145

Local read latency: 0.606 ms

Local write count: 1253

Local write latency: 0.289 ms

Pending flushes: 0

nodetool cfstats - read/write latency

```
Keyspace: foo
Read Count: 9413
Read Latency: 1.2054603208328907 ms.
Write Count: 6287
Write Latency: 0.18585780181326547 ms.
Pending Flushes: 0
  Table: bar
  SSTable count: 2
  Space used (live): 15646502
  Space used (total): 15646502
  Space used by snapshots (total): 105396159
  Off heap memory used (total): 23435
  SSTable Compression Ratio: 0.39842540307866203
  Number of keys (estimate): 10588
  Memtable cell count: 3707
  Memtable data size: 292754
  Memtable off heap memory used: 0
  Memtable switch count: 74
  Local read count: 3145
  Local read latency: 0.606 ms
  Local write count: 1253
  Local write latency: 0.289 ms
  Pending flushes: 0
```

nodetool cfstats - off heap memory

Keyspace: foo

Read Count: 9413

Read Latency: 1.2054603208328907 ms.

Write Count: 6287

Write Latency: 0.18585780181326547 ms.

Pending Flushes: 0

Table: bar

SSTable count: 2

Space used (live): 15646502

Space used (total): 15646502

Space used by snapshots (total): 105396159

Off heap memory used (total): 23435

SSTable Compression Ratio: 0.39842540307866203

Number of keys (estimate): 10588

Memtable cell count: 3707

Memtable data size: 292754

Memtable off heap memory used: 0

Memtable switch count: 74

Local read count: 3145

Local read latency: 0.606 ms

Local write count: 1253

Local write latency: 0.289 ms

Pending flushes: 0

Bloom filter false positives: 0

Bloom filter false ratio: 0.00000

Bloom filter space used: 13192

Bloom filter off heap memory used: 13176

Index summary off heap memory used: 4403

Compression metadata off heap memory used: 5856

Compacted partition minimum bytes: 125

Compacted partition maximum bytes: 43388628

Compacted partition mean bytes: 4774

Average live cells per slice (last five minutes): 6.699523052464229 50

Maximum live cells per slice (last five minutes): 164 0

nodetool cfhistograms

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - keyspace/table

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - percentiles

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - sstables per read

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - read/write latency

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - partition size

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool cfhistograms - cell count

foo/bar histograms

Percentile	SSTables	Write Latency (micros)	Read Latency (micros)	Partition Size (bytes)	Cell Count
50%	3.00	124.00	924.00	29521	149
75%	3.00	215.00	1331.00	61214	310
95%	3.00	642.00	2299.00	219342	924
98%	3.00	1109.00	3311.00	379022	1331
99%	3.00	1331.00	3973.00	454826	1916
Min	0.00	43.00	51.00	1332	11
Max	3.00	2759.00	42510.00	2346799	6866

nodetool proxyhistograms

proxy histograms

Percentile	Read Latency (micros)	Write Latency (micros)	Range Latency (micros)
50%	3311.00	179.00	1331.00
75%	3311.00	258.00	2759.00
95%	3311.00	3973.00	29521.00
98%	3311.00	3973.00	219342.00
99%	3311.00	3973.00	219342.00
Min	2760.00	87.00	536.00
Max	3311.00	3973.00	219342.00

nodetool proxyhistograms - percentiles

proxy histograms

Percentile	Read Latency (micros)	Write Latency (micros)	Range Latency (micros)
50%	3311.00	179.00	1331.00
75%	3311.00	258.00	2759.00
95%	3311.00	3973.00	29521.00
98%	3311.00	3973.00	219342.00
99%	3311.00	3973.00	219342.00
Min	2760.00	87.00	536.00
Max	3311.00	3973.00	219342.00

nodetool proxyhistograms - read latency

proxy histograms

Percentile	Read Latency (micros)	Write Latency (micros)	Range Latency (micros)
50%	3311.00	179.00	1331.00
75%	3311.00	258.00	2759.00
95%	3311.00	3973.00	29521.00
98%	3311.00	3973.00	219342.00
99%	3311.00	3973.00	219342.00
Min	2760.00	87.00	536.00
Max	3311.00	3973.00	219342.00

nodetool proxyhistograms - write

latency

proxy histograms

Percentile	Read Latency (micros)	Write Latency (micros)	Range Latency (micros)
50%	3311.00	179.00	1331.00
75%	3311.00	258.00	2759.00
95%	3311.00	3973.00	29521.00
98%	3311.00	3973.00	219342.00
99%	3311.00	3973.00	219342.00
Min	2760.00	87.00	536.00
Max	3311.00	3973.00	219342.00

nodetool proxyhistograms - range latency

proxy histograms

Percentile	Read Latency (micros)	Write Latency (micros)	Range Latency (micros)
50%	3311.00	179.00	1331.00
75%	3311.00	258.00	2759.00
95%	3311.00	3973.00	29521.00
98%	3311.00	3973.00	219342.00
99%	3311.00	3973.00	219342.00
Min	2760.00	87.00	536.00
Max	3311.00	3973.00	219342.00

nodetool netstats

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats (2)

Read Repair Statistics:

Attempted: 39576

Mismatch (Blocking): 0

Mismatch (Background): 746

Pool Name	Active	Pending	Completed
Commands	n/a	58	2545817
Responses	n/a	0	2833081

nodetool netstats - streaming mode

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

nodetool netstats - active streams

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - read repairs

Read Repair Statistics:

Attempted: 39576

Mismatch (Blocking): 0

Mismatch (Background): 746

Pool Name	Active	Pending	Completed
Commands	n/a	58	2545817
Responses	n/a	0	2833081

nodetool netstats - coordinator stats

Read Repair Statistics:

Attempted: 39576

Mismatch (Blocking): 0

Mismatch (Background): 746

Pool Name	Active	Pending	Completed
Commands	n/a	58	2545817
Responses	n/a	0	2833081

nodetool netstats - repair id

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - node IP

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db
851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db
3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db
6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db
34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db
9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db
2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db
1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db
46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - local ip

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - files/bytes being received

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - files/bytes being sent

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - sstable names

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - streaming progress

Mode: NORMAL

Repair 028763b0-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.19.98

Receiving 6 files, 117949006 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-162-Data.db

851792/17950738 bytes(4%) received from /54.174.19.98

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

3786324/46561942 bytes(8%) sent to /54.174.19.98

Repair 020ed850-cc1e-11e4-a20c-a1d01a3fbf30

/54.174.245.247

Receiving 4 files, 93304584 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-161-Data.db

6094594/46561942 bytes(13%) received from /54.174.245.247

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

34195028/46561942 bytes(73%) sent to /54.174.245.247

Repair 018c88f0-cc1e-11e4-a20c-a1d01a3fbf30

/54.153.39.203 (using /172.31.10.65)

Receiving 3 files, 49959102 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-160-Data.db

9371380/46561942 bytes(20%) received from /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-tmp-jb-159-Data.db

2533414/2533414 bytes(100%) received from /54.153.39.203

Sending 2 files, 47709526 bytes total

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-158-Data.db

1147584/1147584 bytes(100%) sent to /54.153.39.203

/var/lib/cassandra/data/Keyspace1/Standard1/Keyspace1-Standard1-jb-157-Data.db

46561942/46561942 bytes(100%) sent to /54.153.39.203

nodetool netstats - read repairs attempted

Read Repair Statistics:

Attempted: 39576

Mismatch (Blocking): 0

Mismatch (Background): 746

Pool Name	Active	Pending	Completed
Commands	n/a	58	2545817
Responses	n/a	0	2833081

nodetool compactionstats

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - pending tasks

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - active compactions

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - compaction type

pending tasks: 7

	compaction type	keyspace	table	completed	total	unit	progress
	Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
	Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%
Active compaction		remaining time : 0h00m15s					

pending tasks: 1

	compaction type	keyspace	table	completed	total	unit	progress
	Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%
Active compaction		remaining time : n/a					

nodetool compactionstats - keyspace/table

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - completed/total bytes

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - progress

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionstats - time left

pending tasks: 7

compaction type	keyspace	table	completed	total	unit	progress
Compaction	Keyspace1	Standard1	65967769	154639724	bytes	42.66%
Compaction	Keyspace1	Standard1	53880334	227493794	bytes	23.68%

Active compaction remaining time : 0h00m15s

pending tasks: 1

compaction type	keyspace	table	completed	total	unit	progress
Validation	Keyspace1	Standard1	74684443	95178582	bytes	78.47%

Active compaction remaining time : n/a

nodetool compactionhistory

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - unique id

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - keyspace/table

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - timestamp

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - input bytes

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - output bytes

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - merge counts

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - # of sstables

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool compactionhistory - # of partitions

Compaction History:

id	keyspace_name	columnfamily_name	compacted_at	bytes_in	bytes_out
5d4adcc0-cbf9-11e4-9f32-098a653a7013	system	local	1426523260044	1101	543
654f31c0-cc01-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426526709468	53518892	53518892
59a7b070-cc1c-11e4-a84d-098a653a7013	system	hints	1426538286327	106483	0
4b8e2b10-cbf2-11e4-bb39-098a653a7013	system	schema_keyspaces	1426520223809	909	264
68429440-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537022340	59878420	59109472
f06de4a0-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537250794	227493794	133487816
3bec3ee0-cbf2-11e4-bb39-098a653a7013	system	local	1426520197582	720	550
e263a080-cbfa-11e4-87be-098a653a7013	system	schema_columns	1426523912832	27224	11517
54741560-cc19-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426536989110	70198058	61572552
c67f8c90-cc08-11e4-a84d-098a653a7013	system	peers	1426529879001	2219	778
1edb6bf0-cc1a-11e4-a84d-098a653a7013	Keyspace1	Standard1	1426537328687	19723822	16552676

rows_merged

{1:247562, 2:67934, 3:2945, 4:2042, 5:824, 6:232, 7:2, 8:1}

nodetool describeclasser

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.174.19.98, 54.153.108.157, 54.153.39.203, 54.174.245.247]

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

a2cee91b-67c2-3656-baa8-2521904305da: [54.174.19.98]

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.153.108.157, 54.153.39.203, 54.174.245.247]

nodetool describeclass - basic info

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.174.19.98, 54.153.108.157, 54.153.39.203, 54.174.245.247]

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

a2cee91b-67c2-3656-baa8-2521904305da: [54.174.19.98]

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.153.108.157, 54.153.39.203, 54.174.245.247]

nodetool describcluster - schema versions

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.174.19.98, 54.153.108.157, 54.153.39.203, 54.174.245.247]

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

a2cee91b-67c2-3656-baa8-2521904305da: [54.174.19.98]

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.153.108.157, 54.153.39.203, 54.174.245.247]

nodetool describcluster - schema agreement

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100, 54.174.19.98, 54.153.108.157, 54.153.39.203, 54.174.245.247]

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

a2cee91b-67c2-3656-baa8-2521904305da: [54.174.19.98]

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100, 54.153.108.157, 54.153.39.203, 54.174.245.247]

nodetool describeclass - schema disagreement

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.174.19.98, 54.153.108.157, 54.153.39.203, 54.174.245.247]

Cluster Information:

Name: test_cluster

Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch

Partitioner: org.apache.cassandra.dht.Murmur3Partitioner

Schema versions:

a2cee91b-67c2-3656-baa8-2521904305da: [54.174.19.98]

**620ccc95-23ac-328c-8c94-b9554f19af4c: [54.173.171.164, 54.153.107.100,
54.153.108.157, 54.153.39.203, 54.174.245.247]**

system.log (2.1 and later)

Default Location

/var/log/cassandra/system.log

Configuration File

/etc/dse/cassandra/logback.xml

Log Settings

Location	<file>/var/log/cassandra/system.log</file>
Logging Level	<root level="INFO">
Class Override	<logger name="org.apache.cassandra.package.Class" level="DEBUG"/>

Basic Format

Level	Thread Type & ID	Date & Time	Source File	Line No.
INFO	[CompactionExecutor:155]	2015-02-13 02:18:40,986	CompactionTask.java	:287
WARN	[GossipTasks:1]	2015-02-17 19:47:37,331	Gossiper.java	:648
ERROR	[AntiEntropySessions:1]	2015-02-17 20:32:11,959	CassandraDaemon.java	:199
DEBUG	[OptionalTasks:1]	2015-02-20 11:29:14,056	ColumnFamilyStore.java	:298

system.log (2.0 and earlier)

Default Location

/var/log/cassandra/system.log

Configuration File

/etc/dse/cassandra/log4j-server.properties

Log Settings

Location	log4j.appender.R.File=/var/log/cassandra/system.log
Logging Level	log4j.rootLogger=INFO,stdout,R
Class Override	log4j.logger.org.apache.cassandra.package.Class=DEBUG

Basic Format

Level	Thread Type & ID	Date & Time	Source File	Line No.
INFO	[CompactionExecutor:155]	2015-02-13 02:18:40,986	CompactionTask.java	(line 287)
WARN	[GossipTasks:1]	2015-02-17 19:47:37,331	Gossiper.java	(line 648)
ERROR	[AntiEntropySessions:1]	2015-02-17 20:32:11,959	CassandraDaemon.java	(line 199)
DEBUG	[OptionalTasks:1]	2015-02-20 11:29:14,056	ColumnFamilyStore.java	(line 298)

Startup

What to look for...	What it tells you...
Loading DSE module <ul style="list-style-type: none">DSE version: ...Cassandra version: ... Loading settings from file: ... Node configuration: ...	Node just restarted Versions of major components Settings file locations Settings read from cassandra.yaml
JVM vendor/version: ...	JVM vendor and version
<ul style="list-style-type: none">Heap size: ...Par Eden Space Heap memory: ...Par Survivor Space Heap memory: ...CMS Old Gen Heap memory: ...CMS Perm Gen Non-heap memory:...	Heap settings for each generation
Classpath: ... JNA mlockall successful	Classpath (jar files and directories) JNA is installed (make sure it is!)
<ul style="list-style-type: none">Starting listening for CQL clients on ...Listening for thrift clients...	Node is serving requests

Flushes

INFO [SlabPoolCleaner] 2015-09-17 12:11:53,982 ColumnFamilyStore.java:904 -

Enqueuing flush of ticket_events: 235618425 (22%) on-heap, 0 (0%) off-heap

INFO [MemtableFlushWriter:3] 2015-09-17 12:11:53,983 Memtable.java:347 - Writing Memtable-ticket_events@2130198656(45.995MiB serialized bytes, 248591 ops, 22%/0% of on/off-heap limit)

INFO [MemtableFlushWriter:3] 2015-09-17 12:11:55,050 Memtable.java:382 - Completed flushing /opt/dse-4.7.3/data/zendesk/ticket_events-a223cdc00b9b11e5b06bef9f87394

Compactions

INFO [CompactionExecutor:633] 2015-09-05 07:34:55,115 CompactionTask.java:141 -
Compacting [SSTableReader(path='/data/ax/user/ax-user-ka-13684-Data.db'),
SSTableReader(path='/data/ax/user/ax-user-ka-13674-Data.db'),
SSTableReader(path='/data/ax/user/ax-user-ka-13670-Data.db'),
SSTableReader(path='/data/ax/user/ax-user-ka-13687-Data.db'),
SSTableReader(path='/data/ax/user/ax-user-ka-13680-Data.db'),
SSTableReader(path='/data/ax/user/ax-user-ka-13685-Data.db')]

WARN [CompactionExecutor:633] 2015-09-05 07:45:25,016 SSTableWriter.java:240 -
Compacting large partition ax/user:root (2503794228 bytes)

INFO [CompactionExecutor:633] 2015-09-05 07:45:25,114 CompactionTask.java:274 -
Compacted 6 sstables to [/data/ax/user/ax-user-ka-13691,].
400,997,778 bytes to 276,263,497 (~68% of original) in 629,997ms = 0.418201MB/s.
21 total partitions merged to 5. Partition merge counts were {3:3, 6:2, }

Garbage Collections

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - duration

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in **520ms**. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in **298ms**. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in **421ms**. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - timestamps

INFO [Service Thread] **2015-09-05 07:43:49,714** GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] **2015-09-05 08:14:15,633** GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] **2015-08-30 10:29:39,295** GCInspector.java:252 -
G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - space before/after

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -

ParNew GC in 520ms. **CMS Old Gen: 13501336496 -> 13535384776;**

Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -

ConcurrentMarkSweep GC in 298ms. **CMS Old Gen: 14495521568 -> 648005496;**

Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;

Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -

G1 Young Generation GC in 421ms. **G1 Eden Space: 12264144896 -> 0;**

G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - eden space

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in 421ms. **G1 Eden Space: 12264144896 -> 0**;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - survivor space

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; **Par Survivor Space: 34196808 -> 23257856**

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; **Par Survivor Space: 228848 -> 335328**

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; **G1 Survivor Space: 620756992 -> 1610612736;**

Garbage Collections - old generation

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -

ParNew GC in 520ms. **CMS Old Gen: 13501336496 -> 13535384776;**

Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -

ConcurrentMarkSweep GC in 298ms. **CMS Old Gen: 14495521568 -> 648005496;**

Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;

Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -

G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;

G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - collection type

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -

ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;

Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -

ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;

Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;

Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -

G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;

G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - ParNew

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -

ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;

Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -

ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;

Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;

Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -

G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;

G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - ConcurrentMarkSweep

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Garbage Collections - G1

INFO [Service Thread] 2015-09-05 07:43:49,714 GCInspector.java:252 -
ParNew GC in 520ms. CMS Old Gen: 13501336496 -> 13535384776;
Par Eden Space: 1718091776 -> 0; Par Survivor Space: 34196808 -> 23257856

INFO [Service Thread] 2015-09-05 08:14:15,633 GCInspector.java:252 -
ConcurrentMarkSweep GC in 298ms. CMS Old Gen: 14495521568 -> 648005496;
Code Cache: 68215872 -> 68203712; Metaspace: 69789088 -> 69790848;
Par Eden Space: 38399344 -> 86816904; Par Survivor Space: 228848 -> 335328

INFO [Service Thread] 2015-08-30 10:29:39,295 GCInspector.java:252 -
G1 Young Generation GC in 421ms. G1 Eden Space: 12264144896 -> 0;
G1 Old Gen: 5012193272 -> 5276434432; G1 Survivor Space: 620756992 -> 1610612736;

Flapping

INFO [GossipTasks:1] 2015-02-17 14:38:05,129 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] 2015-02-17 14:38:39,768 Gossiper.java (line 901)
InetAddress /10.100.12.130 is now DOWN

INFO [RequestResponseStage:18] 2015-02-17 14:39:14,169 Gossiper.java (line 887)
InetAddress /10.98.12.216 is now UP

INFO [GossipTasks:1] 2015-02-17 14:39:48,841 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now DOWN

INFO [RequestResponseStage:19] 2015-02-17 14:40:23,602 Gossiper.java (line 887)
InetAddress /10.98.12.216 is now UP

INFO [RequestResponseStage:18] 2015-02-17 14:40:58,971 Gossiper.java (line 887)
InetAddress /10.100.12.130 is now UP

INFO [GossipTasks:1] 2015-02-17 14:40:58,971 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] 2015-02-17 14:41:33,667 Gossiper.java (line 901)
InetAddress /10.100.12.130 is now DOWN

Flapping - up, down, up, down

INFO [GossipTasks:1] 2015-02-17 14:38:05,129 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now **DOWN**

INFO [GossipTasks:1] 2015-02-17 14:38:39,768 Gossiper.java (line 901)
InetAddress /10.100.12.130 is now **DOWN**

INFO [RequestResponseStage:18] 2015-02-17 14:39:14,169 Gossiper.java (line 887)
InetAddress /10.98.12.216 is now **UP**

INFO [GossipTasks:1] 2015-02-17 14:39:48,841 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now **DOWN**

INFO [RequestResponseStage:19] 2015-02-17 14:40:23,602 Gossiper.java (line 887)
InetAddress /10.98.12.216 is now **UP**

INFO [RequestResponseStage:18] 2015-02-17 14:40:58,971 Gossiper.java (line 887)
InetAddress /10.100.12.130 is now **UP**

INFO [GossipTasks:1] 2015-02-17 14:40:58,971 Gossiper.java (line 901)
InetAddress /10.98.12.216 is now **DOWN**

INFO [GossipTasks:1] 2015-02-17 14:41:33,667 Gossiper.java (line 901)

Flapping - other node's ip

INFO [GossipTasks:1] 2015-02-17 14:38:05,129 Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] 2015-02-17 14:38:39,768 Gossiper.java (line 901)
 InetAddress /10.100.12.130 is now DOWN

INFO [RequestResponseStage:18] 2015-02-17 14:39:14,169 Gossiper.java (line 887)
 InetAddress /10.98.12.216 is now UP

INFO [GossipTasks:1] 2015-02-17 14:39:48,841 Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [RequestResponseStage:19] 2015-02-17 14:40:23,602 Gossiper.java (line 887)
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INFO [RequestResponseStage:18] 2015-02-17 14:40:58,971 Gossiper.java (line 887)
 InetAddress /10.100.12.130 is now UP

INFO [GossipTasks:1] 2015-02-17 14:40:58,971 Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] 2015-02-17 14:41:33,667 Gossiper.java (line 901)

Flapping - timestamps

INFO [GossipTasks:1] **2015-02-17 14:38:05,129** Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] 2015-02-17 14:38:39,768 Gossiper.java (line 901)
 InetAddress /10.100.12.130 is now DOWN

INFO [RequestResponseStage:18] **2015-02-17 14:39:14,169** Gossiper.java (line 887)
 InetAddress /10.98.12.216 is now UP

INFO [GossipTasks:1] 2015-02-17 14:39:48,841 Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [RequestResponseStage:19] 2015-02-17 14:40:23,602 Gossiper.java (line 887)
 InetAddress /10.98.12.216 is now UP

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 InetAddress /10.100.12.130 is now UP

INFO [GossipTasks:1] 2015-02-17 14:40:58,971 Gossiper.java (line 901)
 InetAddress /10.98.12.216 is now DOWN

INFO [GossipTasks:1] **2015-02-17 14:41:33,667** Gossiper.java (line 901)

Hinted Handoff

INFO [HintedHandoff:1] 2015-03-16 20:18:28,627 HintedHandOffManager.java (line 349)

Started hinted handoff for host: d1a57a91-7aef-4878-a056-88949920724c with IP:
/54.153.39.203

INFO [HintedHandoff:1] 2015-03-16 20:18:37,292 HintedHandOffManager.java (line 381)

Finished hinted handoff of 2492 rows to endpoint /54.153.39.203

Repairs

INFO [AntiEntropySessions:1] 2015-03-16 17:24:44,097 RepairSession.java (line 246)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] new session: will sync /54.174.19.98, /54.153.108.157, /54.153.39.203, /54.174.245.247 on range (3074457345618258602,6148914691236517205] for Keyspace1.[Counter3, Standard1, SuperCounter1, Super1, Counter1]

INFO [RepairJobTask:2] 2015-03-16 17:24:48,102 RepairJob.java (line 161)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] requesting merkle trees for Standard1 (to [/54.153.108.157, /54.153.39.203, /54.174.245.247, /54.174.19.98])

INFO [AntiEntropyStage:1] 2015-03-16 17:24:52,749 RepairSession.java (line 166)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] Received merkle tree for Standard1 from /54.174.19.98

INFO [RepairJobTask:4] 2015-03-16 17:24:52,757 Differencer.java (line 67)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] Endpoints /54.153.39.203 and /54.174.245.247 are consistent for Standard1

INFO [RepairJobTask:6] 2015-03-16 17:24:55,438 Differencer.java (line 74)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] Endpoints /54.153.108.157 and /54.174.19.98 have 6222 range(s) out of sync for Standard1

INFO [RepairJobTask:6] 2015-03-16 17:24:55,441 StreamingRepairTask.java (line 64)
[streaming task #562f46d0-cc01-11e4-a84d-098a653a7013] Performing streaming repair of 6222 ranges with /54.153.108.157

INFO [StreamReceiveTask:1] 2015-03-16 17:25:01,524 StreamingRepairTask.java (line 92)
[repair #562f46d0-cc01-11e4-a84d-098a653a7013] streaming task succeed, returning response to /54.174.19.98

INFO [AntiEntropyStage:1] 2015-03-16 17:25:01,805 RepairSession.java (line 223)

Thank you!

Questions?