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MBeans org.apache.cassandra.internal domain includes MBean, which allows you to specify the thread pool associated with each step of Cassandra's event-driven architecture (SEDA). These steps include antientropystage, GossipStage, InternalResponseStage, MigrationStage and more. Read the fix for MBea's Historical Causes ReadRepairStage MBean is located under the org.apache.cassandra.request domain, not org.apache.cassandra.internal. Thread reserves are implemented through the JMXEnabled ThreadPool Executor and JMXEnabled Scheduled ThreadPool Executor categories of the org.apache.cassandra.concurrent package. Each step of MBean implements the JMXEnabled SchederEdPoolExecutorMBean interface, which allows you to view and specify the number of kernel threads and the maximum number of threads in each thread pool. The service MBean GCInspectorMXBean unveils a single function, getAndResetStats(), which retrieves and resets the garbage collectors cassandra collects with JVM. This MBean org.apache.cassandra.service domain. The secure MBean org.apache.cassandra.auth domain contains security-related MBeans grouped by the same Java package name. Starting with version 3.0, it consists of the License Cache MBean, which is revealed to customers as org.apache.cassandra.auth.PermissionsCache. We are discussing this MBean in Chapter 13. Monitor with nodes Nodetool comes with Cassandra, which can be found / bin. This is a command-line program that provides a versatile way to view, understand, and modify a cluster. The node allows you to get limited statistics about the farm, see the scope of maintenance for each node, move data from one node to another, remove activation nodes, and even fix problematic nodes. Many of the tasks in soldetol and JMX overlap with the features of the JMX interface. That's because behind the scenes, nodetool uses a name called org.apache.cassandra.tools. NodeProbe's utility class calls JMX. So, JMX does real work, the NodeProbe class is used to connect to a JMX agent and retrieve data, and the NodeCmd class is used to render it in an interactive command line interface. nodetool uses the same environmental settings as Cassandra daemon: bin/cassandra.in.sh and conf/cassandra-env.sh unix (or bin/cassandra.in.bat and conf/cassandra-env.ps1). Log logging.xml conf/logback.xml-tools file. Starting a node is an easy task. Just open the terminal, go, and then type the following command: bin/nodetool will help this cause the program to print a list of available commands, several of which we will cover for now. Driving a node jasl without parameters corresponds to a help command. You can also use the name of a specific command to perform additional instructions. Connecting to a specific node In addition to the Help command, you must connect the node to the Cassandra node to access the data in the node or cluster. The -h switch can be used to identify the IP address of the node that you want to connect to nodes with nodes. If the IP address is not specified, the tool attempts to connect to the default port on the local computer, which is the sample approach that is adopted in this chapter. Getting cluster data You can get different information about the farm and its nodes that we cover in this section. Get basic information about a single node or all the nodes in the participating ring. Describecluster describecluster command prints basic farm information, including names, whistleblowers and partitioners: \$bin/nodetool describecluster Cluster Information: Name: Test Cluster Snitch: org.apache.cassandra.locator.DynamicEndpointSnitch Partitioner: org.apache.cassandra.dhmmur 3PartPartitioner Schema versions: 2d4043cb-2124-3589-b2d0-375759b9dd0a: s127.0.0.1, 127.0.0.2, 127.0.0.3 The last part of the output is particularly important for identifying the discord or patterns between nodes in the table definition. When Cassandra changes through cluster progression mode, any differences are usually resolved quickly, so delayed pattern differences usually indicate that the restartable node is down or non-flammable. A more direct way to identify cluster nodes and their locations is to use \$ bin/nodetool status Datacenter: datacenter1 103.82 KB 256 ? 31d9042b-6603-4040-8aac-fe0a235570b UN 127.0.0.2 110.9 KB caad1573-4157-43d2-a9fa-88f79344683d UN 127.0.0.3 109.6 KB 256 ? The e78529c8-ee9f-46a4-8bc1-3479f9a1860 mode is organized by data centers and scaffolding. The status of each node is identified by a two-character code in which the first character indicates whether the node has started (currently available and ready for query) or down, and the second character indicates the status or operating state of the node. The load column specifies the amount of data held by each node. My column indicates the effective percentage of the id range owned by the node and considers replication. Because we do not specify a key state, and because different key states in this farm have different replication policies, the node cannot calculate a meaningful ownership percentage. The Data Information command prompts nodes to connect to a single node and retrieve basic information about their current status. Anna vain sen solmun osoite, johon haluat tietoja: \$ bin / nodetool -h 192.168.2.7 info ID: 197efa22-ecaa-40dc-a010-6c105619bf5e Gossip Active : true Thrift Active : false Naive Transport Active: 301.17 MB Generation Ei : 1447444152 Käyttöaika (sekuntia) : 1901668 Kasamusti (Mt) : 395.03 / 989.08 Pois kasamustista (Mt) : 2.94 Data Center : Datacenter1 Rack : Rack1 Poikkeukset: 0 Vainuustavain : merkinät 85, koko 8.39 KB, KT kapasiteetti 49 Mt, 47958 osumaa, 48038 pyyntöä. 0.998 viimeisin osumanopeus, 14400 tallennusjako sekunteina Riviri : merkinät 0, koko 0 tavua, kapasiteetti 0 tavua, 0 osumaa, 0 pyyntöä, NaN:n viimeisin osumanopeus, 0 tallennusjako sekunteina Counter Cache: 0, koko 0 tavua, kapasiteetti 24 Mt, 0 osumaa, 0 pyyntöä, NaN:n viimeisin osumanopeus, 72000 jaksoa käännessä: (kutsu -T/tokens nähdäksesi ilmoitettuja tietoja ovat solmun muisti ja levyn käyttö (kuormitus) sekä Cassandra:n tarjoamista eri palveluista. You can also check the statusgossip, statusthrift, statusbinary, and statushandoff for node commands for each service status (note that switching mode is not part of the data). Ring To specify ring nodes and their position with a node command, follow these steps: \$bin/nodetool ring Datacenter: Datacenter1, Address Rack State Loads Token 92082375882789476801 192.168.2.5 rack1 Normal Up 243.6 KB ? -9203905334627395805 192.168.2.rack1 Up Normal 243.6 KB ? -9145503818225306830 192.168.2.7 rack1 Up Normal 243.6 KB ? -9091015424710319286 This output is organized by vnodes. Here we can see the IP address of all the nodes in the ring. In this case, we have three nodes, all of which have been started (currently available and ready for query). The load column specifies the amount of data held by each node. The output of the description command is similar, but it is arranged around the scope of the id. Other useful space commands offered by the Node Center include: and setLoggingLevels commands enable the use of Logback, as we discussed earlier You can also use the nodetool of statistical contacts to collect statistics on server status at the aggregate level and at the level of specific key states and tables. The two most commonly used commands are tpstas and table stats, which we check now. The TPSTATS TPSTATS tool provides information about the spiral pool maintained by Cassandra. Cassandra is very co-standard and optimized for multiprocessor/multi-core machines. In addition, Cassandra has internally step-by-step event-driven architecture (SEDA), so understanding the behavior and health of thread pools is important for Cassandra's good maintenance. To find statistics about thread pools, use the tpstats command to run the nodetool: \$bin/nodetool tpstats Pool Name Active Pending Completed Blocked All time blocked ReadStage 0 0 21 6 0 0 MutationStage 1 0 3637 0 0 CounterMutationStage 0 0 0 0 0 ViewMutationStage 0 0 0 0 0 Gossip Stage 0 0 0 0 0 RequestResponseStage 0 0 0 0 0 AntiEntropyStage 0 0 0 0 0 MigrationStage 0 0 0 0 0 MiscStage 0 0 0 0 0 InternalResponseStage 0 0 0 0 0 ReadRepairStage 0 0 0 Korjausstage 0 Message Type Drop read 0 RANGE_SLICE 0 _TRACE 0 TIP 0 MUTATION 0 COUNTER_MUTATION 0 BATCH_STORE 0 BATCH_REMOVE 0 REQUEST_RESPONSE 0 PAGED_RANGE 0 READ_REPAIR 0 The printout top displays the task information for each Cassandra thread reserve. You can see directly where the number of operations is and whether they are active, pending, or completed. This output was captured during the writing operation, so it is shown that there are active tasks in The NationalStage. The bottom of the printout indicates the number of messages deleted for the node. Dropped messages are cassandra's load load implementation indicator that each node uses to protect itself when it receives more requests than it can handle. For example, messages between nodes that receive a node, rpc, timeout not processed in the node, are dropped instead of processed because the coordination node no longer waits for a response. If you see a large number of zeroes in the output of blocked tasks and dropped messages, there is very little activity on the server or Cassandra does a great job of maintaining the load. Many values, which are not zero, indicate that Cassandra is difficult to follow and may indicate the need for some of the techniques described in Chapter 12. You can use table statistics to view summary statistics for key states and tables by using the tablestats command. You can also recognize the command from the previous name cstats. Here's an example of the hotel's key space output: \$bin/nodetool tablestats hotel Keyspace: Hotel Read Count: 8 Read Latency: 0.617 ms. Writing volume: 13 Writing latency: 0.13330769230769232 ms. Pending rises: 0 Table: Hotels SSTable count: 3 Used mode (live): 16601 Total used mode: 16601. Mode used by snapshots 0 Accumulated memory used (total): 140 SSTable Compression: 0.62773226277723 rating): 19 Number of Memtable cells: 8 Memtable data size: 792 Memtable off heap memory: 0 Memtable switch count: 1 Local number: 8 Local number late: 0.680 ms Local write count: 13 Local writing local latency: 0.148 0.148 Pending flushes: 0 Wrong bloom filter positives: 0 Wrong bloom filter ratio: 0.00000 Used Bloom filter mode: 56 Bloom filter out of used pile memory: 32 Index summary of the pile memory used: 84 Compression data for used pile memory: 24 rearranged minimum partition data: 30 rearranged maximum partition radars: 149 compressed partition radars: 87 Average living cells per slice (last, five minutes): 1.0 Maximum number of live cells per slice (last five minutes): 1 Average tombstones per slice (last five minutes): 1.0 Headstones per slice: 1 Here we omitt the output of other tables in the key space , so we can focus on the hotel table; Create the same statistics for each table. We can see the read and write delay and the total number of read and write at the key state and table level. We can also see more information about cassandra's internal structure of each table, including memtables, Bloom filters and SSTables. Summary This chapter describes ways to track and manage Cassandra clusters. In particular, we discussed JMX in detail and learned about the different functions Cassandra offers for MBean servers. We learned how to use JConsole and nodetol to see what's going on in the Cassandra cluster. You are now ready to learn how to perform routine maintenance tasks in the Cassandra cluster to make it healthy. You are now ready to learn how to perform routine maintenance tasks in the Cassandra cluster to make it healthy.

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