## 查看innodb状态

|  |
| --- |
| mysql> show engine innodb status\G;  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Type: InnoDB  Name:  Status:  =====================================  160918 8:42:15 INNODB MONITOR OUTPUT  =====================================  Per second averages calculated from the last 15 seconds  ----------  SEMAPHORES  ----------  OS WAIT ARRAY INFO: reservation count 2, signal count 2  Mutex spin waits 0, rounds 0, OS waits 0  RW-shared spins 4, OS waits 2; RW-excl spins 0, OS waits 0  ------------  TRANSACTIONS  ------------  Trx id counter 0 6144  Purge done for trx's n:o < 0 5241 undo n:o < 0 0  History list length 1  LIST OF TRANSACTIONS FOR EACH SESSION:  ---TRANSACTION 0 0, not started, process no 23267, OS thread id 3013831536  MySQL thread id 2, query id 5 localhost root  show engine innodb status  --------  FILE I/O  --------  I/O thread 0 state: waiting for i/o request (insert buffer thread)  I/O thread 1 state: waiting for i/o request (log thread)  I/O thread 2 state: waiting for i/o request (read thread)  I/O thread 3 state: waiting for i/o request (write thread)  Pending normal aio reads: 0, aio writes: 0,  ibuf aio reads: 0, log i/o's: 0, sync i/o's: 0  Pending flushes (fsync) log: 0; buffer pool: 0  27 OS file reads, 3 OS file writes, 3 OS fsyncs  0.00 reads/s, 0 avg bytes/read, 0.00 writes/s, 0.00 fsyncs/s  -------------------------------------  INSERT BUFFER AND ADAPTIVE HASH INDEX  -------------------------------------  Ibuf: size 1, free list len 0, seg size 2,  0 inserts, 0 merged recs, 0 merges  Hash table size 34679, node heap has 0 buffer(s)  0.00 hash searches/s, 0.00 non-hash searches/s  ---  LOG  ---  Log sequence number 0 331742  Log flushed up to 0 331742  Last checkpoint at 0 331742  0 pending log writes, 0 pending chkp writes  8 log i/o's done, 0.00 log i/o's/second  ----------------------  BUFFER POOL AND MEMORY  ----------------------  Total memory allocated 17312964; in additional pool allocated 860032  Dictionary memory allocated 20888  Buffer pool size 512  Free buffers 491  Database pages 21  Modified db pages 0  Pending reads 0  Pending writes: LRU 0, flush list 0, single page 0  Pages read 21, created 0, written 0  0.00 reads/s, 0.00 creates/s, 0.00 writes/s  No buffer pool page gets since the last printout  --------------  ROW OPERATIONS  --------------  0 queries inside InnoDB, 0 queries in queue  1 read views open inside InnoDB  Main thread process no. 23267, id 2967849840, state: waiting for server activity  Number of rows inserted 0, updated 0, deleted 0, read 0  0.00 inserts/s, 0.00 updates/s, 0.00 deletes/s, 0.00 reads/s  ----------------------------  END OF INNODB MONITOR OUTPUT  ============================  1 row in set (0.00 sec)  ERROR:  No query specified |

## InnoDB后台线程（7个）：

4个IO线程，1个master线程，1个锁监控线程，1个错误监控线程

**4个IO线程**

I/O thread 0 state: waiting for i/o request (insert buffer thread)

I/O thread 1 state: waiting for i/o request (log thread)

I/O thread 2 state: waiting for i/o request (read thread)

I/O thread 3 state: waiting for i/o request (write thread)

## InnoDB参数：

|  |
| --- |
| mysql> show variables like 'innodb%';  +-----------------------------------------+------------------------+  | Variable\_name | Value |  +-----------------------------------------+------------------------+  | innodb\_adaptive\_hash\_index | ON |  | innodb\_additional\_mem\_pool\_size | 1048576 |  | innodb\_autoextend\_increment | 8 |  | innodb\_autoinc\_lock\_mode | 1 |  | innodb\_buffer\_pool\_size | 8388608 |  | innodb\_checksums | ON |  | innodb\_commit\_concurrency | 0 |  | innodb\_concurrency\_tickets | 500 |  | innodb\_data\_file\_path | ibdata1:10M:autoextend |  | innodb\_data\_home\_dir | |  | innodb\_doublewrite | ON |  | innodb\_fast\_shutdown | 1 |  | innodb\_file\_io\_threads | 4 |  | innodb\_file\_per\_table | OFF |  | innodb\_flush\_log\_at\_trx\_commit | 1 |  | innodb\_flush\_method | |  | innodb\_force\_recovery | 0 |  | innodb\_lock\_wait\_timeout | 50 |  | innodb\_locks\_unsafe\_for\_binlog | OFF |  | innodb\_log\_buffer\_size | 1048576 |  | innodb\_log\_file\_size | 5242880 |  | innodb\_log\_files\_in\_group | 2 |  | innodb\_log\_group\_home\_dir | ./ |  | innodb\_max\_dirty\_pages\_pct | 90 |  | innodb\_max\_purge\_lag | 0 |  | innodb\_mirrored\_log\_groups | 1 |  | innodb\_open\_files | 300 |  | innodb\_rollback\_on\_timeout | OFF |  | innodb\_stats\_method | nulls\_equal |  | innodb\_stats\_on\_metadata | ON |  | innodb\_support\_xa | ON |  | innodb\_sync\_spin\_loops | 20 |  | innodb\_table\_locks | ON |  | innodb\_thread\_concurrency | 8 |  | innodb\_thread\_sleep\_delay | 10000 |  | innodb\_use\_legacy\_cardinality\_algorithm | ON |  +-----------------------------------------+------------------------+  36 rows in set (0.00 sec) |