V1.1版本新特性: SHOW SESSIONS [语句](http://doc.cockroachchina.baidu.com/#develop/sql-statements/overview/) 用于列出所有处于活跃状态的会话详细信息，具体包括：

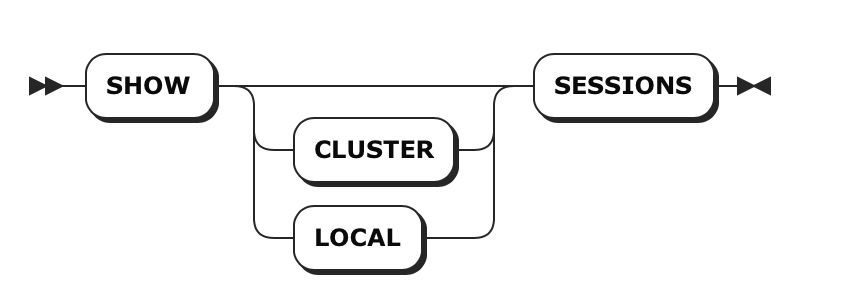
* 开启会话的客户端地址
* 连接的节点信息
* 连接持续多久
* 会话有哪些活跃查询
* 会话中运行最久的查询

上述信息可以用来监控客户端连接的状态，来判断是否需要进行下一步研究和调整。

所需权限

无 [权限](http://doc.cockroachchina.baidu.com/#deploy/access-management/privileges/)要求。但是，非root用户只能查看自己当前的活跃会话，而root用户则可以查看所有的会话。

概要



* 如果要显示整个集群的所有会话，请使用请使用SHOW SESSIONS 或者 SHOW CLUSTER SESSIONS。
* 如果仅要显示当前节点的会话，请使用SHOW LOCAL SESSIONS。

返回

每个会话的相关字段如下：如下：

| **Field** | **Description** |
| --- | --- |
| node\_id | 会话连接的节点ID。 |
| username | 会话连接的用户名。 |
| client\_address | 会话连接的客户端地址。 |
| application\_name | 客户端指定的具体的 [application name](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SET(session-variable)/#supported-variables)。 对于 [built-in SQL client](http://doc.cockroachchina.baidu.com/#quick-start/learn-cockroachdb-sql/use-the-built-in-sql-client/)的会话，该值为 cockroach。 |
| active\_queries | 会话中的活跃SQL查询。 |
| last\_active\_query | 会话中最近完成的SQL查询。 |
| session\_start | 会话开始的时间。 |
| oldest\_query\_start | 会话中的活跃SQL查询里，最早开始执行的开始时间。 |
| kv\_txn | 当前key-value事务的ID。 |

例子

显示整个集群的活跃会话

> **SHOW** CLUSTER SESSIONS;

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------|----------------------------------+----------------------------------+--------------------------------------+

| node\_id | username | client\_address | application\_name | active\_queries | last\_active\_query | session\_start | oldest\_query\_start | kv\_txn |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------+--------------------------------------|

| 2 | mroach | 192.168.0.72:56194 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878113+00:00 | 2017-08-10 14:08:44.648985+00:00 | 81fbdd4d-394c-4784-b540-97cd73910dba |

| 2 | mroach | 192.168.0.72:56201 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878306+00:00 | 2017-08-10 14:08:44.653135+00:00 | 5aa6f141-5cae-468f-b16a-dfe8d4fb4bea |

| 2 | mroach | 192.168.0.72:56198 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878464+00:00 | 2017-08-10 14:08:44.643749+00:00 | d8fedb88-fc21-4720-aabe-cd43ec204d88 |

| 3 | broach | 192.168.0.73:56199 | test\_app | SELECT k, v FROM test.kv WHERE k = $1; | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | 2017-08-10 14:08:22.878048+00:00 | 2017-08-10 14:08:44.655709+00:00 | NULL |

| 3 | broach | 192.168.0.73:56196 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878166+00:00 | 2017-08-10 14:08:44.647464+00:00 | aded7717-94e1-4ac4-9d37-8765e3418e32 |

| 1 | lroach | 192.168.0.71:56180 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.87337+00:00 | 2017-08-10 14:08:44.64788+00:00 | f691c5dd-b29e-48ed-a1dd-6d7f71faa82e |

| 1 | lroach | 192.168.0.71:56197 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.877932+00:00 | 2017-08-10 14:08:44.644786+00:00 | 86ae25ea-9abf-4f5e-ad96-0522178f4ce6 |

| 1 | lroach | 192.168.0.71:56200 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878534+00:00 | 2017-08-10 14:08:44.653524+00:00 | 8ad972b6-4347-4128-9e52-8553f3491963 |

| 1 | root | 127.0.0.1:56211 | cockroach | SHOW CLUSTER SESSIONS; | | 2017-08-10 14:08:27.666826+00:00 | 2017-08-10 14:08:44.653355+00:00 | NULL |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------|--------------------------------------+

(9 rows)

显示当前节点的活跃会话

> **SHOW** **LOCAL** SESSIONS;

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------|----------------------------------+----------------------------------+--------------------------------------+

| node\_id | username | client\_address | application\_name | active\_queries | last\_active\_query | session\_start | oldest\_query\_start | kv\_txn |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------+--------------------------------------|

| 1 | lroach | 192.168.0.71:56180 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.87337+00:00 | 2017-08-10 14:08:44.64788+00:00 | f691c5dd-b29e-48ed-a1dd-6d7f71faa82e |

| 1 | lroach | 192.168.0.71:56197 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.877932+00:00 | 2017-08-10 14:08:44.644786+00:00 | 86ae25ea-9abf-4f5e-ad96-0522178f4ce6 |

| 1 | lroach | 192.168.0.71:56200 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878534+00:00 | 2017-08-10 14:08:44.653524+00:00 | 8ad972b6-4347-4128-9e52-8553f3491963 |

| 1 | root | 127.0.0.1:56211 | cockroach | SHOW CLUSTER SESSIONS; | | 2017-08-10 14:08:27.666826+00:00 | 2017-08-10 14:08:44.653355+00:00 | NULL |

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(4 rows)

过滤特定会话

将SHOW SESSIONS返回的[response fields](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-SESSIONS/#response)字段值作为 [SELECT](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SELECT/)语句的where条件，过滤出我们需要的会话。

显示一个特定用户的会话

> **SELECT** \* **FROM** [**SHOW** CLUSTER SESSIONS] **WHERE** username = 'mroach';

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------|----------------------------------+----------------------------------+--------------------------------------+

| node\_id | username | client\_address | application\_name | active\_queries | last\_active\_query | session\_start | oldest\_query\_start | kv\_txn |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------+--------------------------------------|

| 2 | mroach | 192.168.0.72:56194 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878113+00:00 | 2017-08-10 14:08:44.648985+00:00 | 81fbdd4d-394c-4784-b540-97cd73910dba |

| 2 | mroach | 192.168.0.72:56201 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878306+00:00 | 2017-08-10 14:08:44.653135+00:00 | 5aa6f141-5cae-468f-b16a-dfe8d4fb4bea |

| 2 | mroach | 192.168.0.72:56198 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878464+00:00 | 2017-08-10 14:08:44.643749+00:00 | d8fedb88-fc21-4720-aabe-cd43ec204d88 |

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(3 rows)

排除 built-in SQL client开启的会话

通过将查看 application\_name不是cockroach 的会话，就可以排除由built-in SQL client执行的会话。

> **SELECT** \* **FROM** [**SHOW** CLUSTER SESSIONS]

**WHERE** application\_name != 'cockroach';

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------|----------------------------------+----------------------------------+--------------------------------------+

| node\_id | username | client\_address | application\_name | active\_queries | last\_active\_query | session\_start | oldest\_query\_start | kv\_txn |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------+--------------------------------------|

| 2 | mroach | 192.168.0.72:56194 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878113+00:00 | 2017-08-10 14:08:44.648985+00:00 | 81fbdd4d-394c-4784-b540-97cd73910dba |

| 2 | mroach | 192.168.0.72:56201 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878306+00:00 | 2017-08-10 14:08:44.653135+00:00 | 5aa6f141-5cae-468f-b16a-dfe8d4fb4bea |

| 2 | mroach | 192.168.0.72:56198 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878464+00:00 | 2017-08-10 14:08:44.643749+00:00 | d8fedb88-fc21-4720-aabe-cd43ec204d88 |

| 3 | broach | 192.168.0.73:56199 | test\_app | SELECT k, v FROM test.kv WHERE k = $1; | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | 2017-08-10 14:08:22.878048+00:00 | 2017-08-10 14:08:44.655709+00:00 | NULL |

| 3 | broach | 192.168.0.73:56196 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878166+00:00 | 2017-08-10 14:08:44.647464+00:00 | aded7717-94e1-4ac4-9d37-8765e3418e32 |

| 1 | lroach | 192.168.0.71:56180 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.87337+00:00 | 2017-08-10 14:08:44.64788+00:00 | f691c5dd-b29e-48ed-a1dd-6d7f71faa82e |

| 1 | lroach | 192.168.0.71:56197 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.877932+00:00 | 2017-08-10 14:08:44.644786+00:00 | 86ae25ea-9abf-4f5e-ad96-0522178f4ce6 |

| 1 | lroach | 192.168.0.71:56200 | test\_app | UPSERT INTO test.kv(k, v) VALUES ($1, $2); | SELECT k, v FROM test.kv WHERE k = $1; | 2017-08-10 14:08:22.878534+00:00 | 2017-08-10 14:08:44.653524+00:00 | 8ad972b6-4347-4128-9e52-8553f3491963 |

+---------+----------+--------------------+------------------+---------------------------------------------+--------------------------------------------+----------------------------------+----------------------------------|--------------------------------------+

(8 rows)

识别并取消有问题的查询

如果一个持续时间较长，可能是因为这个会话中最老的活跃查询有问题；可以通过 [SHOW QUERIES](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-QUERIES/)进一步查看这个查询，如果这个查询有问题，可以通过[CANCEL QUERY](http://doc.cockroachchina.baidu.com/#develop/sql-statements/CANCEL-QUERY/) 语句取消它。

例如，通过SHOW SESSIONS语句的查询结果，发现有会话的存活时间超过2小时：

+---------+----------+--------------------+------------------+------------------------------------+--------------------|----------------------------------+----------------------------------+--------+

| node\_id | username | client\_address | application\_name | active\_queries | last\_active\_query | session\_start | oldest\_query\_start | kv\_txn |

+---------+----------+--------------------+------------------+------------------------------------+--------------------+----------------------------------+----------------------------------|--------+

| 2 | mroach | 192.168.0.72:56194 | test\_app | SELECT \* FROM test.kv ORDER BY k; | | 2017-08-10 14:08:22.878113+00:00 | 2017-08-10 14:08:22.878113+00:00 | NULL |

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因为oldest\_query\_start的时间与session\_start的时间一样，那么可以认为active\_queries列中的SELECT查询执行了很长的时间，可能消耗了很多的资源。所以，通过已有的信息，使用 [SHOW QUERIES](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-QUERIES/) 语句查看这个查询更详细的信息。

> **SELECT** \* **FROM** [**SHOW** CLUSTER QUERIES]

**WHERE** client\_address = '192.168.0.72:56194'

**AND** username = 'mroach'

**AND** **query** = 'SELECT \* FROM test.kv ORDER BY k';

+----------------------------------+---------+----------+----------------------------------+----------------------------------+--------------------+------------------+-------------+-----------+

| query\_id | node\_id | username | start | query | client\_address | application\_name | distributed | phase |

+----------------------------------+---------+----------+----------------------------------+----------------------------------+--------------------+------------------+-------------+-----------+

| 14dacc1f9a781e3d0000000000000001 | 2 | mroach | 2017-08-10 14:08:22.878113+00:00 | SELECT \* FROM test.kv ORDER BY k | 192.168.0.72:56194 | test\_app | false | executing |

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通过start 字段，可以看到这个查询自从会话开启就已经执行，已经执行了很长时间。所以，为了阻止这个查询消耗资源，使用 [CANCEL QUERY query\_id](http://doc.cockroachchina.baidu.com/#develop/sql-statements/CANCEL-QUERY/) 取消这个查询。

> CANCEL QUERY '14dacc1f9a781e3d0000000000000001';

另外，如果看到SHOW SESSIONS的显示信息，确定要取消里面的查询，可以使用一个嵌套的SELECT语句返回query\_id，然后使用 [CANCEL QUERY](http://doc.cockroachchina.baidu.com/#develop/sql-statements/CANCEL-QUERY/) 语句取消它。

> CANCEL QUERY (**SELECT** query\_id **FROM** [**SHOW** CLUSTER QUERIES]

**WHERE** client\_address = '192.168.0.72:56194'

**AND** username = 'mroach'

**AND** **query** = 'SELECT \* FROM test.kv ORDER BY k');

See Also

* [SHOW QUERIES](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-QUERIES/)
* [CANCEL QUERY](http://doc.cockroachchina.baidu.com/#develop/sql-statements/CANCEL-QUERY/)
* [Other SQL Statements](http://doc.cockroachchina.baidu.com/#develop/sql-statements/overview/)