

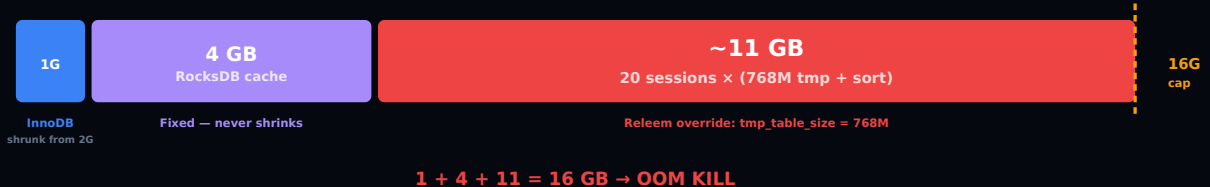
OOM Killer 768MB 16GB

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MARIADB OOM-KILLER PERFORMANCE-TUNING SYSTEMD MEMORY-MANAGEMENT

MEMORY STACK AT OOM KILL

16 GB systemd cap — what fills it up



Fix: reduce session memory

tmp_table_size 768M → 128M
+rocksdb_block_cache_size 4G → 2G

Aggravating: ProxySQL storm

mass unauthenticated connections
→ more session allocs → faster OOM

Calculate worst case, not average — PmaControl memory monitoring

Galera

MariaDB Galera 5.5.68 Linux

systemd

```
mariadb.service: Failed with result 'oom-kill'  
Out of memory: Killed process 1177 (mariabdb) total-vm:22267612kB, anon-rss:16649820kB  
Memory cgroup out of memory: Killed process 1146610 (mariabdb)
```

systemd

total	19.5 GB
systemd MemoryMax	16 GB
innodb_buffer_pool_size	2 GB → 1 GB
rocksdb_block_cache_size	4 GB

配置	值
tmp_table_size=768M	768 MB
max_heap_table_size=768M	768 MB
sort_buffer_size	32 MB
max_connections	100

配置

MariaDB 配置 InnoDB 配置

```
Memory pressure event shrunk innodb_buffer_pool_size=1536m from 2048m
→ 1280m → 1152m → 1088m → 1056m → 1040m → 1032m → 1024m
Memory pressure event disregarded; innodb_buffer_pool_size=1024m,
innodb_buffer_pool_size_auto_min=1024m
```

InnoDB 配置 1 GB 配置

配置

配置 100 配置

```
100 × (768 MB tmp_table + 768 MB heap + 32 MB sort) = ~153 GB
```

配置 20 配置 BY ORDER BY 配置 16 GB 配置

```
InnoDB 配置:      1 GB (配置)
RocksDB 配置:     4 GB (配置)
20 配置 × 768 MB: 15 GB
配置:             20 GB → 配置
```

配置 ProxySQL 配置

配置 OOM 配置 MariaDB 配置 103 配置 ProxySQL 配置

```
Aborted connection ... user: 'unauthenticated' host: '10.68.68.103'  
Too many connections
```

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1. [[[[[]

```
tmp_table_size = 128M  
max_heap_table_size = 128M  
sort_buffer_size = 8M
```

2. [[**systemd**]]

```
MemoryMax=18G
```

3. [[**RocksDB**]] 4 GB [[[[[]

```
rocksdb_block_cache_size = 2G
```

[[[[]

- [[Releem]] `mysql/releem.conf.d/z_aiops_mysql.cnf` []
- [[PmaControl]] `memory_mysql` [[[[[[[[[[[]
- [[ProxySQL]] `max_connections` [] [[MariaDB]] `max_connections`

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