### Description

Thread 4 (Thread 0x7fa7b1350700 (LWP 2832129)):

```
#0 0x00007fa7d501a945 in pthread_cond_wait@GLIBC_2.3.2 () from /lib64/libpthread.so.0
#1 0x00005583867503a0 in Wait (mutex=..., this=0x7fa7b134dd8) at /usr/src/debug/ceph-12.2.9/src/common/Cond.h:48
#2 C_SaferCond::wait (this=0x7fa7b134ddc8) at /usr/src/debug/ceph-12.2.9/src/common/Cond.h:194
#3 0x000055838674e39b in wait (this=0x7fa7b134dd60) at /usr/src/debug/ceph-12.2.9/src/mgr/MgrContext.h:39
#4 ActivePyModules::set_config (this=0x558390ba4400, module_name=..., key="active", val=...) at /usr/src/debug/ceph-12.2.9/src/mgr/ActivePyModules.cc:499
#5 0x000055838676f5bb in ceph_config_set (self=0x558391d800f0, args=<optimized out>) at /usr/src/debug/ceph-12.2.9/src/mgr/BaseMgrModule.cc:396
#6 0x000055838676683c in PyModuleRunner::serve (this=0x558390b81000) at /usr/src/debug/ceph-12.2.9/src/mgr/PyModuleRunner.cc:51
#7 0x00005583867670ce in PyModuleRunner::PyModuleRunnerThread::entry (this=0x558390b81038) at /usr/src/debug/ceph-12.2.9/src/mgr/PyModuleRunner.cc:112
#8 0x000055838676f85b in ceph_config_set (self=0x558391d800f0, args=<optimized out>) at /usr/src/debug/ceph-12.2.9/src/mgr/ActivePyModules.cc:499
```

Thread 8 (Thread 0x7fa7b3354700 (LWP 2832125)):

```
#0 0x00007fa7d501ca0b in do_futex_wait.constprop.1 () from /lib64/libpthread.so.0
#1 0x00007fa7d6e0357d in sem_wait@GLIBC_2.2.5 () from /lib64/libpthread.so.0
#2 0x00007fa7d6e05d6d in PyEval_EvalFrameEx () from /lib64/libpython2.7.so.1.0
#3 0x00007fa7d6e05fd6 in PyEval_EvalCodeEx () from /lib64/libpython2.7.so.1.0
#4 0x00007fa7d6d8f858 in function_call () from /lib64/libpython2.7.so.1.0
#5 0x00007fa7d6d6a9a3 in PyObject_Call () from /lib64/libpython2.7.so.1.0
#6 0x00007fa7d6d79995 in instance_method_call () from /lib64/libpython2.7.so.1.0
#7 0x00007fa7d6d6a9a3 in PyObject_Call () from /lib64/libpython2.7.so.1.0
#8 0x00007fa7d6d6a85 in call_function () from /lib64/libpython2.7.so.1.0
#9 0x00007fa7d6d6a85 in call_function () from /lib64/libpython2.7.so.1.0
#10 0x00007fa7d6d6a85 in call_function () from /lib64/libpython2.7.so.1.0
#11 0x00007fa7d6d6a85 in call_function () from /lib64/libpython2.7.so.1.0
#12 0x00007fa7d6b0f3b in PyEval_RestoreThread () from /lib64/libpython2.7.so.1.0
#13 0x00007fa7d6b0f3b in PyEval_RestoreThread () from /lib64/libpython2.7.so.1.0
#14 0x00007fa7d6b0f3b in PyEval_RestoreThread () from /lib64/libpython2.7.so.1.0
#15 0x000055838676683c in PyModuleRunner::serve (this=0x558390ba4400, module_name=..., key="active", val=...) at /usr/src/debug/ceph-12.2.9/src/mgr/PyModuleRunner.cc:51
#16 0x00005583867670ce in PyModuleRunner::PyModuleRunnerThread::entry (this=0x558390b81038) at /usr/src/debug/ceph-12.2.9/src/mgr/PyModuleRunner.cc:112
#17 0x00007fa7d6d0f3d in clone () from /lib64/libc.so.6
```
### History

**#1 - 03/30/2019 02:55 AM - xie xingguo**

thread 4 is currently holding GIL and waiting for mon_command to finish, while thread 8 (mon_client's finisher thread) is blocking at acquiring the GTL, which as result causes mgr deadlock.

**#2 - 04/01/2019 10:26 PM - Patrick Donnelly**

- Project changed from Ceph to mgr
- Subject changed from luminous: mgr deadlock to mgr: deadlock
- Start date deleted (03/30/2019)

This has probably been fixed in one of the recent merges. Don't know if those fixes are slated for backport though!

**#3 - 04/01/2019 10:35 PM - Patrick Donnelly**

- Status changed from New to Fix Under Review
- Target version set to v15.0.0
- Pull request ID set to 27280

**#4 - 04/03/2019 10:54 AM - Kefu Chai**

- Status changed from Fix Under Review to Pending Backport

**#8 - 04/18/2019 05:24 PM - Sage Weil**

- Status changed from Pending Backport to In Progress

The original fix was buggy! Do not backport yet. See #39335

**#9 - 04/18/2019 05:25 PM - Sage Weil**

- Related to Bug #39335: deadlock on command completion added

**#10 - 04/19/2019 07:54 PM - Sage Weil**

- Related to deleted (Bug #39335: deadlock on command completion)

**#11 - 04/19/2019 07:55 PM - Sage Weil**

- Status changed from In Progress to Pending Backport

Scratch that, this fix is good! I was just testing a version before this was merged and got confused

**#12 - 04/23/2019 01:05 PM - Nathan Cutler**

- Copied to Backport #39424: luminous: mgr: deadlock added

**#13 - 04/23/2019 01:05 PM - Nathan Cutler**

- Copied to Backport #39425: nautilus: mgr: deadlock added
#14 - 04/23/2019 01:05 PM - Nathan Cutler
- Copied to Backport #39426: mimic: mgr: deadlock added

#15 - 07/26/2019 08:34 AM - Nathan Cutler
- Status changed from Pending Backport to Resolved

#16 - 12/06/2019 01:13 PM - Nathan Cutler
- Duplicated by Bug #40156: deadlock on MonCommandCompletion added