

mgr - Bug #19629

mgr: set_config from python module crashes mgr (assertion failure due to access denied)

04/14/2017 05:40 AM - Tim Serong

Status:	Resolved	Start date:	04/14/2017
Priority:	Urgent	Due date:	
Assignee:	Tim Serong	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Reviewed:	
Source:		Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:		Pull request ID:	
Regression:	No		
Severity:	3 - minor		

Description

Tried `ceph tell mgr enable_auth false` (enable_auth being implemented by the rest module). The ceph CLI became unresponsive (never returned to the shell). Meanwhile, mgr crashed with:

```
-8> 2017-04-14 15:34:45.938295 7f00c778a700 4 mgr[rest] handle_command: {
  "prefix": "enable_auth",
  "val": "false"
}
-7> 2017-04-14 15:34:45.938336 7f00c778a700 1 lockdep using id 41
-6> 2017-04-14 15:34:45.938369 7f00c778a700 10 monclient: _send_command 5 [{"prefix":"config-key put", "key":"mgr.rest.enable_auth", "val":"false"}]
-5> 2017-04-14 15:34:45.938376 7f00c778a700 10 monclient: _send_mon_message to mon.b at 127.0.0.1:40447/0
-4> 2017-04-14 15:34:45.938381 7f00c778a700 1 -- 127.0.0.1:0/3288703021 --> 127.0.0.1:40447/0
-- mon_command({"prefix":"config-key put", "key":"mgr.rest.enable_auth", "val":"false"} v0) v1 --
0x55ea04db41c0 con 0
-3> 2017-04-14 15:34:45.938756 7f00caf91700 1 -- 127.0.0.1:0/3288703021 <== mon.1 127.0.0.1:40447/0 25 ==== mon_command_ack({"prefix":"config-key put", "key":"mgr.rest.enable_auth", "val":"false"})=-13 access denied v0) v1 ==== 117+0+0 (2523711155 0 0) 0x55ea04db41c0 con 0x55ea02d59800
-2> 2017-04-14 15:34:45.938773 7f00caf91700 10 monclient: handle_mon_command_ack 5 [{"prefix":"config-key put", "key":"mgr.rest.enable_auth", "val":"false"}]
-1> 2017-04-14 15:34:45.938778 7f00caf91700 10 monclient: _finish_command 5 = -13 access denied
0> 2017-04-14 15:34:45.940929 7f00c778a700 -1 /home/tserong/src/github/SUSE/ceph/src/mgr/PyModules.cc: In function 'void PyModules::set_config(const string&, const string&, const string&)' thread read 7f00c778a700 time 2017-04-14 15:34:45.938831
/home/tserong/src/github/SUSE/ceph/src/mgr/PyModules.cc: 546: FAILED assert(set_cmd.r == 0)
```

Why is the mon giving mgr "access denied" when it tries to set a config key?

We should consider getting rid of that assert too...

History

#1 - 04/19/2017 03:52 PM - Sage Weil

- Priority changed from Normal to Urgent

#2 - 04/21/2017 05:45 AM - Tim Serong

The permission denied problem goes away if you give mgr full access to the mon. For example, in a vstart environment:

```
# bin/ceph auth caps mgr.x mon 'allow *' mds 'allow *' osd 'allow *'  
updated caps for mgr.x  
# bin/init-ceph restart mgr.x  
# bin/ceph tell mgr enable_auth false  
(...works fine, doesn't crash anymore...)
```

Originally it was "mon 'allow profile mgr'", now it's "mon 'allow *'". Is that too permissive?

Note that mgr must be restarted to pick up the auth caps change. Is that correct behaviour, or should it notice the changed caps by magic?

#3 - 04/21/2017 07:00 AM - Tim Serong

- Status changed from New to In Progress
- Assignee set to Tim Serong

#4 - 04/21/2017 08:07 AM - Tim Serong

- Status changed from In Progress to Need Review

<https://github.com/ceph/ceph/pull/14706>

This PR doesn't help with mgr's auth caps, it just makes sure it logs the failure rather than crashing horribly.

#5 - 04/28/2017 09:41 PM - Sage Weil

- Status changed from Need Review to Resolved