

## Orchestrator - Bug #45032

### cephadm: Not recovering from `OSError: cannot send (already closed?)`

04/10/2020 08:54 PM - Sebastian Wagner

<b>Status:</b>	Resolved	<b>% Done:</b>	0%
<b>Priority:</b>	High		
<b>Assignee:</b>	Matthew Oliver		
<b>Category:</b>	cephadm		
<b>Target version:</b>	v15.2.4		
<b>Source:</b>		<b>Affected Versions:</b>	
<b>Tags:</b>		<b>ceph-qa-suite:</b>	
<b>Backport:</b>		<b>Pull request ID:</b>	35281
<b>Regression:</b>	No	<b>Crash signature (v1):</b>	
<b>Severity:</b>	3 - minor	<b>Crash signature (v2):</b>	
<b>Reviewed:</b>			

#### Description

Workaround for this was:

```
ceph mgr fail ; sleep 20 ; ceph orch host add mon001
```

```
Apr 09 17:27:31 mon000 bash[39359]: Warning: Permanently added 'mon001,10.201.32.111' (ECDSA) to t
he list of known hosts.
Apr 09 17:27:32 mon000 bash[39359]: bash: python3: command not found
Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.096+0000 7f652806d700 0 [cephadm ER
ROR root@mon001] Can't communicate with remote host, possibly be
Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.097+0000 7f652806d700 -1 log_channel
(cephadm) log [ERR] : Can't communicate with remote host, possib
Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.099+0000 7f652806d700 0 [cephadm ER
ROR root] cannot send (already closed?)
Apr 09 17:27:32 mon000 bash[39359]: Traceback (most recent call last):
Apr 09 17:27:32 mon000 bash[39359]:   File "/lib/python3.6/site-packages/execnet/gateway_base.py",
line 997, in _send
Apr 09 17:27:32 mon000 bash[39359]:     message.to_io(self._io)
Apr 09 17:27:32 mon000 bash[39359]:   File "/lib/python3.6/site-packages/execnet/gateway_base.py",
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Apr 09 17:27:32 mon000 bash[39359]:     io.write(header + self.data)
Apr 09 17:27:32 mon000 bash[39359]:   File "/lib/python3.6/site-packages/execnet/gateway_base.py",
line 410, in write
Apr 09 17:27:32 mon000 bash[39359]:     self.outfile.flush()
Apr 09 17:27:32 mon000 bash[39359]: BrokenPipeError: [Errno 32] Broken pipe
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Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/cephadm/module.py", line 1507, in
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Apr 09 17:27:32 mon000 bash[39359]:     self.gateway = self._make_gateway(hostname)
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Apr 09 17:27:32 mon000 bash[39359]:     gateway.reconfigure(py2str_as_py3str=False, py3str_as_py2s
```

```

tr=False)
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72, in reconfigure
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Apr 09 17:27:32 mon000 bash[39359]: File "/lib/python3.6/site-packages/execnet/gateway_base.py",
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Apr 09 17:27:32 mon000 bash[39359]: gateway.reconfigure(py2str_as_py3str=False, py3str_as_py2s
tr=False)
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Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.100+0000 7f652806d700 0 [cephadm ER
ROR orchestrator._interface] _Promise failed
Apr 09 17:27:32 mon000 bash[39359]: Traceback (most recent call last):
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Apr 09 17:27:32 mon000 bash[39359]: res = self._on_complete(*args, **kwargs)
Apr 09 17:27:32 mon000 bash[39359]: File "/usr/share/ceph/mgr/cephadm/module.py", line 512, in <
lambda>
Apr 09 17:27:32 mon000 bash[39359]: return cls(on_complete=lambda x: f(*x), value=args, name=n
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```

```

Apr 09 17:27:32 mon000 bash[39359]: File "/usr/share/ceph/mgr/cephadm/module.py", line 1645, in
add_host
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```

```
Apr 09 17:27:32 mon000 bash[39359]:      raise IOError("cannot send (already closed?)")
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Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.628+0000 7f653890e700 -1 mgr handle_
command module 'orchestrator' command handler threw exception: c
Apr 09 17:27:32 mon000 bash[39359]: debug 2020-04-09T22:27:32.628+0000 7f653890e700 -1 mgr.server
reply reply (22) Invalid argument Traceback (most recent call la
Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/mgr_module.py", line 1153, in _han
dle_command
Apr 09 17:27:32 mon000 bash[39359]:       return self.handle_command(inbuf, cmd)
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Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/mgr_module.py", line 308, in call
Apr 09 17:27:32 mon000 bash[39359]:       return self.func(mgr, **kwargs)
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Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/orchestrator/_interface.py", line
63, in wrapper
Apr 09 17:27:32 mon000 bash[39359]:       return func(*args, **kwargs)
Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/orchestrator/module.py", line 179,
in _add_host
Apr 09 17:27:32 mon000 bash[39359]:       raise_if_exception(completion)
Apr 09 17:27:32 mon000 bash[39359]:   File "/usr/share/ceph/mgr/orchestrator/_interface.py", line
628, in raise_if_exception
Apr 09 17:27:32 mon000 bash[39359]:       raise e
Apr 09 17:27:32 mon000 bash[39359]: OSError: cannot send (already closed?)
```

#### Related issues:

Related to Orchestrator - Bug #45627: cephadm: frequently getting `1 hosts fa...

**Resolved**

#### History

##### #1 - 05/12/2020 02:54 PM - Sebastian Wagner

- Status changed from New to Fix Under Review
- Pull request ID set to 35022

##### #2 - 05/20/2020 01:48 PM - Sebastian Wagner

- Related to Bug #45627: cephadm: frequently getting `1 hosts fail cephadm check` added

##### #3 - 05/20/2020 01:49 PM - Sebastian Wagner

- Status changed from Fix Under Review to Pending Backport

I think we sill have this problem.

##### #4 - 05/20/2020 01:51 PM - Tobias Fischer

same here after a reboot of the hosts:

```
root@one1-ceph4.storage:~# ceph cephadm check-host one1-ceph4
one1-ceph4 (None) ok
```

```
root@one1-ceph4.storage:~# ceph cephadm check-host one1-ceph5
Error EINVAL: Traceback (most recent call last):
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 997, in _send
message.to_io(self._io)
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 443, in to_io
io.write(header + self.data)
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 409, in write
self._write(data)
ValueError: write to closed file
```

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
File "/usr/share/ceph/mgr/mgr_module.py", line 1153, in handle_command
return self.handle_command(inbuf, cmd)
File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 110, in handle_command
return dispatch[cmd[prefix]].call(self, cmd, inbuf)
File "/usr/share/ceph/mgr/mgr_module.py", line 308, in call
return self.func(mgr, **kwargs)
File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 72, in <lambda>
wrapper_copy = lambda *_args, **kwargs: wrapper(*_args, **kwargs)
File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 63, in wrapper
return func(*args, **kwargs)
File "/usr/share/ceph/mgr/cephadm/module.py", line 1482, in check_host
error_ok=True, no_fsid=True)
File "/usr/share/ceph/mgr/cephadm/module.py", line 1607, in _run_cephadm
python = connr.choose_python()
File "/lib/python3.6/site-packages/remoto/backends/_init__.py", line 158, in wrapper
self.channel.send("%s(%s)" % (name, arguments))
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 729, in send
self.gateway._send(Message.CHANNEL_DATA, self.id, dumps_internal(item))
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 1003, in _send
raise IOError("cannot send (already closed?)")
OSError: cannot send (already closed?)
```

```
root@one1-ceph4.storage:~# ceph cephadm check-host one1-ceph6
Error EINVAL: Traceback (most recent call last):
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 997, in _send
message.to_io(self._io)
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 443, in to_io
io.write(header + self.data)
File "/lib/python3.6/site-packages/execnet/gateway_base.py", line 409, in write
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return dispatch[cmd[prefix]].call(self, cmd, inbuf)
File "/usr/share/ceph/mgr/mgr_module.py", line 308, in call
return self.func(mgr, **kwargs)
File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 72, in <lambda>
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File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 63, in wrapper
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File "/usr/share/ceph/mgr/cephadm/module.py", line 1482, in check_host
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File "/usr/share/ceph/mgr/cephadm/module.py", line 1607, in _run_cephadm
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raise IOError("cannot send (already closed?)")
OSError: cannot send (already closed?)
```

## #5 - 05/20/2020 01:59 PM - Tobias Fischer

fixed after reboot of active mgr

```
root@one1-ceph4.storage:~# ceph cephadm check-host one1-ceph5
one1-ceph5 (None) ok
root@one1-ceph4.storage:~# ceph cephadm check-host one1-ceph6
one1-ceph6 (None) ok
```

## #6 - 05/27/2020 02:59 AM - Matthew Oliver

- Assignee set to Matthew Oliver

I've managed to recreate, I have 2 nodes, node1(10.20.92.201) and node2(10.20.92.202).

Node2 happens to be the current mgr.

So I do a node check:

```
node2:~ # ceph cephadm check-host node1
node1 (None) ok
```

If we look at the connections, we'll look on node1, because we can easily recreate the issue from there:

```
node1:~ # ss -ntp |grep 10.20.92.202 |grep ssh
ESTAB 0 0 10.20.92.201:22 10.20.92.202:55550 users:(("sshd",pid=3125,fd=4)
)
```

We can see the connection.

If I run it again, it'll reuse the same connection, because we're storing this connection to the node to reuse:

```
node2:~ # ceph cephadm check-host node1
node1 (None) ok
```

Now what happens if the other end of the (the non active mgr) node closes it's connection abruptly:

```
node1:~ # kill 3125
node1:~ # ss -ntp |grep 10.20.92.202 |grep ssh
<no output>
```

The connection is gone, obviously. But back in the mgr the stored connection object is still there, which we try and use:

```
node2:~ # ceph cephadm check-host node1
Error EINVAL: Traceback (most recent call last):
  File "/usr/lib/python3.6/site-packages/execnet/gateway_base.py", line 997, in _send
    message.to_io(self._io)
  File "/usr/lib/python3.6/site-packages/execnet/gateway_base.py", line 443, in to_io
    io.write(header + self.data)
  File "/usr/lib/python3.6/site-packages/execnet/gateway_base.py", line 409, in write
    self._write(data)
ValueError: write to closed file
```

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
  File "/usr/share/ceph/mgr/mgr_module.py", line 1153, in _handle_command
    return self.handle_command(inbuf, cmd)
  File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 110, in handle_command
    return dispatch[cmd['prefix']].call(self, cmd, inbuf)
  File "/usr/share/ceph/mgr/mgr_module.py", line 308, in call
    return self.func(mgr, **kwargs)
  File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 72, in <lambda>
    wrapper_copy = lambda *l_args, **l_kwargs: wrapper(*l_args, **l_kwargs)
  File "/usr/share/ceph/mgr/orchestrator/_interface.py", line 63, in wrapper
    return func(*args, **kwargs)
  File "/usr/share/ceph/mgr/cephadm/module.py", line 1485, in check_host
    error_ok=True, no_fsid=True)
  File "/usr/share/ceph/mgr/cephadm/module.py", line 1601, in _run_cephadm
    python = connr.choose_python()
  File "/usr/lib/python3.6/site-packages/remoto/backends/_init__.py", line 158, in wrapper
    self.channel.send("%s(%s)" % (name, arguments))
  File "/usr/lib/python3.6/site-packages/execnet/gateway_base.py", line 729, in send
    self.gateway._send(Message.CHANNEL_DATA, self.id, dumps_internal(item))
  File "/usr/lib/python3.6/site-packages/execnet/gateway_base.py", line 1003, in _send
    raise IOError("cannot send (already closed?)")
OSError: cannot send (already closed?)
```

So I'll look at adding some smarts to the mgr side to catch the exception and recreate the connection.

**#7 - 06/04/2020 10:21 AM - Sebastian Wagner**

- Pull request ID changed from 35022 to 35281

**#8 - 06/08/2020 12:27 PM - Sebastian Wagner**

- Status changed from Pending Backport to Resolved

- Target version set to v15.2.4