

Messengers - Bug #38457

common/msg: sockaddr on FreeBSD differs from Linux, has sa_len

02/23/2019 11:39 AM - Willem Jan Withagen

Status: New	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: v15.0.0	Reviewed:
Source: Community (dev)	Affected Versions:
Tags:	ceph-qa-suite:
Backport: nautilus,mimic,luminous	Pull request ID:
Regression: No	
Severity: 3 - minor	

Description

On Linux the definition of a sockaddr is:

```
...  
struct sockaddr {  
    sa_family_t sa_family;  
    char      sa_data14;  
}  
...
```

And on FreeBSD it looks like:

```
...  
struct sockaddr {  
    unsigned char sa_len; /* total length /  
    sa_family_t sa_family; / address family /  
    char      sa_data14; / actually longer; address value */  
};  
...
```

We need to do 2 things:

- maintain the sa_len value for FreeBSD, otherwise memcmp() calls can return unequal, where the only difference would be `sa_len`.
- sa_len is set on returns from the FreeBSD syscalls.
- Look into comparing structures which have sockaddr as members.

Testing with `ceph_test_msgr` will show all poll tests failing. Most of the time the script will just loop endlessly.

Future work could be to actually rework the comparison routines in msg_types.h to make full use of the structure. But for now it looks like it not needed.

History

#1 - 02/23/2019 11:54 AM - Willem Jan Withagen

Needs to be backported to
Mimic
Luminous

#2 - 02/23/2019 06:00 PM - Yuri Weinstein

- Project changed from Stable releases to Ceph

#3 - 03/01/2019 10:00 AM - Nathan Cutler

- *Tracker changed from Tasks to Bug*
- *Regression set to No*
- *Severity set to 3 - minor*

Willem Jan Withagen wrote:

Needs to be backported to
Mimic
Luminous

@Willem: There was no "Backport" field because you opened this in the wrong tracker. "Stable Releases" is, arguably, misleadingly named. You are not the first to open a bug there.

#4 - 03/01/2019 10:00 AM - Nathan Cutler

- *Backport set to mimic, luminous*

#5 - 04/01/2019 10:25 PM - Patrick Donnelly

- *Project changed from Ceph to Messengers*
- *Target version set to v15.0.0*
- *Start date deleted (02/23/2019)*
- *Source set to Community (dev)*
- *Backport changed from mimic, luminous to nautilus,mimic,luminous*