OFA EWG Meeting – 3/30/2015

Attendees

First	Last	Company	02/02/15	02/16/15	03/02/15	03/30/15
Eddie	Wai	Broadcom	X	X	X	X
Steve	Wise	Chelsio	X		X	X
Pradeep	Kankipati	Emulex	X	X	X	X
Devesh	Sharma	Emulex	X			
Pradeep	Satyanarayana	IBM			X	
Tom	Elken	Intel	X		X	X
Tatyana	Nikolova	Intel	X		X	X
Jim	Ryan	Intel	X		X	X
Robert	Woodruff	Intel	X		X	X
Vladimir	Sokolovsky	Mellanox		X	X	X
Jeff	Becker	NASA	X		X	X
Rupert	Dance	Software Forge	X	X	X	X
Tim	Carlin	UNH-IOL				X

Meeting Minutes

- 03/02/2015: https://ofa.causewaynow.com/wg/EWG/documentRevision/download/433

OFED 3.18 status

- **OFED 3.18 RC1**
  - http://downloads.openfabrics.org/downloads/OFED/ofed-3.18/OFED-3.18-rc1.tgz
- **OFED 3.18 –** latest daily build 03/29/2015
  - http://downloads.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150329-0355.tgz
  - Backports needed for RHEL 6.x
    - NFSRDMA
  - Plans for additional OSs
    - RHEL 7.1
- **OFED User Package Status**
  - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/440
- **OFED Bug List**
  - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/439
- **OFED 3.12-1 Bug Status**
  - Bug 2520 - System crash under iSCSI heavy load in Xen/Dom0.
    - Sagi Grimberg has responded – waiting for submitter to test again.
- **OFED 3.18 Bug Status - review**
  - Bug 2492 - perftest tools enhancement
    - Low priority enhancement
  - Bug 2519 - Modernize compat-rdma spec file – in process
    - Vlad waiting for additional updates
  - Bug 2523 - OFED 3.18 RC1 compile error on SL 6.5
    - Needs NFSRDMA backport for 6.5
  - Bug 2524 - OFED-3.18-rc1 fails to install on RHEL6.6
  - Bug 2525 - OFED 3.18 3/29/2015 Daily build compile error on RHEL 6.5
    - Needs NFSRDMA backport for 6.5
- **OFED 3.18**
  - Schedule for OFED 3.18 RC2?
  - New DAPL package just added and a few Emulex updates.
  - NFSRDMA backports for 6.x due early this week

NFSRDMA – led by Jeff Becker
We believe that the following bugs are essentially duplicates and that they all relate to the fact that we don't have NFSRDMA backports for RHEL 6.5 or 6.6 in OFED 3.18. RC1

- Bug 2523 - OFED 3.18 RC1 compile error on SL 6.5
  - Needs NFSRDMA backport for 6.5
- Bug 2524 - OFED-3.18-rc1 fails to install on RHEL6.6
- Bug 2525 - OFED 3.18 3/29/2015 Daily build compile error on RHEL 6.5
  - Needs NFSRDMA backport for 6.5

1) **Jeff** has a patch ready to fix the compile issues on 6.5 and 6.6 but he still has issues with a NULL pointer. He wanted to know if he should release it so OFED would compile with NFSRDMA enabled.
2) **Vlad** and the rest of the team felt it would be better to wait until we have full solution.
3) **Jeff** feels he can get this resolved by the end of the week and if he needs help he will reach out to Steve Wise. The parch will fix 6.5 will get 6.6
4) **Vlad** will disable NFSRDMA for 6.5 and 6.6 until this issue is resolved. The bug also indicates that NFSRDMA will not build against stock 3.18 kernel

RHEL 7.1 – Red Hat has released 7.1 and we would like to support it in RC2.
1) We will need backports form all of the vendors.
2) **Vlad** will work on supporting 7.1 but needs 2 weeks because he is going to be on vacation.
3) Woody also mentioned that OFiWG will be releasing libfabric RC3 end of this month and so this should go into RC2.
4) We decided that we should do a daily build first to check for problems and then RC2.

Report on the OFA Developers Conference - Woody
1) There was discussion about whether we should continue to refer to our software as OFED versus OFS
2) The Red Hat folks were not aware of our process change and that the EWG team was pushing everything upstream before we build OFED. They know recognize that we primarily use same kernel.
3) **Doug Ledford** said he might be willing to take the whole package from the OFA again. He is currently taking the release kernel and user space. If there is a bug in kernel, there is no time to get it fixed in that kernel. He wonders if we should be testing against kernel under development.
4) **Woody** felt it is job of maintainer to be sure it works and create backports as needed to work with various kernels. It is our job to take released kernel and released user packages and put it together in a working reliable fashion as OFED.
5) **Tim** – they are busy but they can provide VPN access to get to the cluster and do bleeding edge testing. Willing to discuss doing more.
6) **Woody**: he feels it has not really been a problem with the release kernel that were fixed in the new kernel.
   a) **Vlad**: main target is backports and Distros
   b) **Rupert**: agrees there aren't a lot of upstream fixes we need
   c) **Woody**: maintainers are doing good job.
   d) **Steve**: biggest reason to pull patch from the latest kernels is because we are two releases behind kernel. We pull once they release updates and merge as needed.
   e) **Woody**: this is similar to what Doug does when he puts together the RHEL releases and he pulls fixes from later kernels as needed..
   f) **Steve**: Chelsio drives releases for point releases.

g) **Rupert**: I feel we should focus on getting our existing OFED done and out. There is currently not much new in RDMA and so why chase new kernels.

h) **Woody**: perhaps we should evaluate this in TAC first and then in EWG. If they believe it has value then we move forward.

i) **Group Conclusion**: there are no known big problems so there won't be a lot of benefit in pursuing this.

7) Linux Distributers acknowledge that our new policy to get everything upstream first is much better.

   a) SLES 12 I uses everything OFED 3.12-1

   b) RHEL 7.0 is close to what is included in OFED as well.

   c) Doug said he may consider taking version of OFED to include most or all the packages. He feels there is additional benefit to testing with different hardware and vendors that the OFA has available.

ARs

Chelsio – Steve Wise

9/15/2014

1) Send patch for Bug 2492 upstream to the perftest maintainer and ask them to check out and accept the patch – in process

Emulex

3/2/2015

1) SLES 11 SP3 is not supported but will Emulex will complete this week.

   a) Completed by Mitesh Ahuja on 3/10/2015

2) **Devesh**: please test NFSRDMA using the latest OFED 3.18 build and see if Bugs 2489 and 2507 have been resolved

   a) Devesh confirmed on 3/17/2015 that Bugs 2489 and 2507 were resolved

Intel -IB

1/19/2015

1) **QIB**: Need OFED 3.18 backports to support RHEL 6.5 and 6.6 as well as for SLES 11 SP3

   a) Completed by Mike Marciniszyn on 3/6/2015

Intel iWARP – Tatyana

3/2/2015

1) Has been testing but needs to test status of SLES 12 and SLES 11 SP3 – status unknown as of 3/30/2015

Mellanox - Vlad

3/2/2015

1) Include libfabric into OFED 3.18 and have it build by default.

   a) Completed on 311/2015

NFSRDMA – Jeff

3/2/2015

1) He is doing a fix for SLES 11 SP3 and will be done soon – this will be end of this week.

   a) Completed on 3/12/2015

2) He has not done 6.6 but has 6.5 – he will try for RC1 but will make sure it is done for RC2 for sure.

   a) Open – this has been delayed for RC2

SFI - Rupert

2/16/2015

1) When should we start working on OFED 3.20? – 3/2/2015 we decided to wait for 30 days to see if core features we want are in the 4.0 kernel or the 4.1 kernel.

UNH-IOL

12/22/2014

1) Test NFSoRDMA using OFED 3.18 to see if NFSoRDMA bugs have been resolved.
   a) Bugs have been resolved as of 2/5/2015 – see bug 2518