

whamcloud

The logo for Whamcloud features the word "whamcloud" in a bold, dark grey, lowercase sans-serif font. A thick blue horizontal line underlines the text. On the right side, a blue graphic element consisting of two overlapping curved lines forms a stylized shape that resembles a cloud or a drop, partially overlapping the end of the word.

Lustre Releases

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Agenda

- Whamcloud Release Streams
- Lustre 1.8.x
- Lustre 2.1
- Lustre 2.2
- Whamcloud Roadmap
- Summary

Whamcloud Release Streams

- Whamcloud defines two release streams
 - The designated maintenance release stream is targeted for conservative users wishing to use a well-proven release
 - The feature release stream is targeted for those wishing to get first access to new development
- Bugfix releases every three months for maintenance release stream
 - Currently 1.8.x is the designated maintenance release stream
 - Use combination of support metrics and customer demand to determine when to switch
- Feature releases every six months

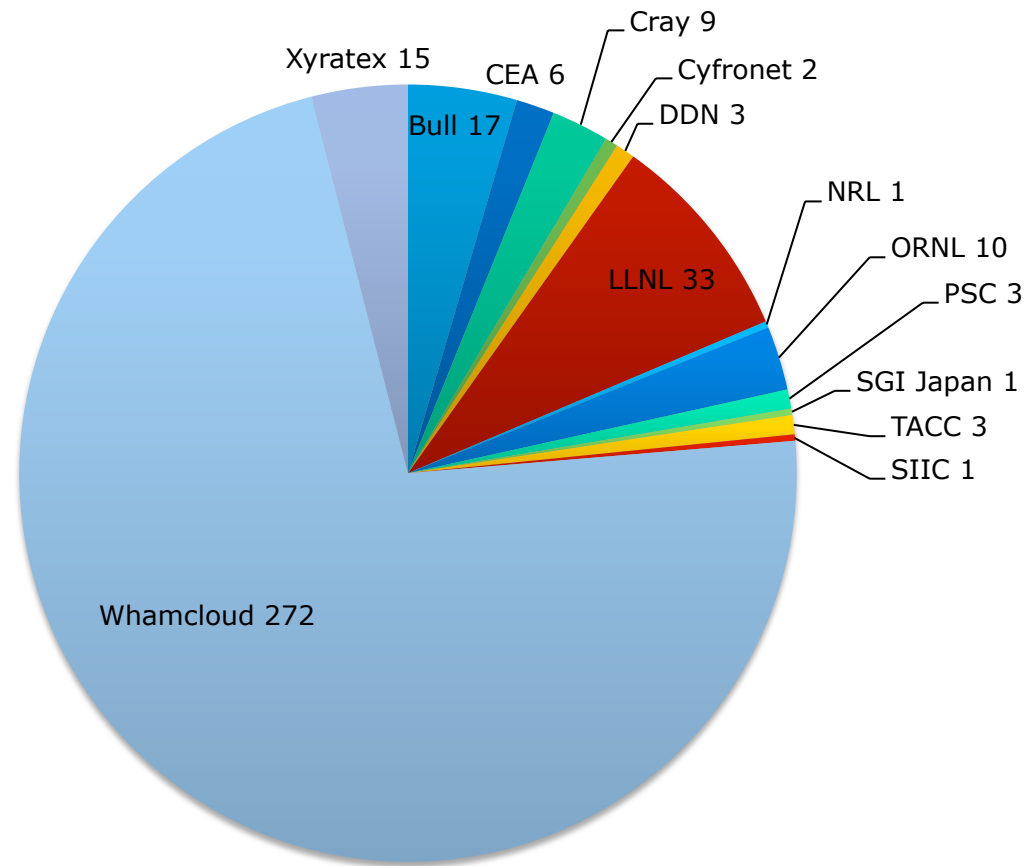
Lustre 1.8.x

- Whamcloud released 1.8.6-wc1 June 2011
 - Superset of Oracle 1.8.6 release
 - Added support for RHEL6 clients and 24TB LUNs
- Lustre 1.8.7-wc1 targeted for October 2011
 - Bugfixes and kernel updates
 - Superset of Oracle 1.8.7 release
- Oracle still producing Lustre 1.8.x releases
 - Available through Oracle git but not on download site
 - Long term plans unclear

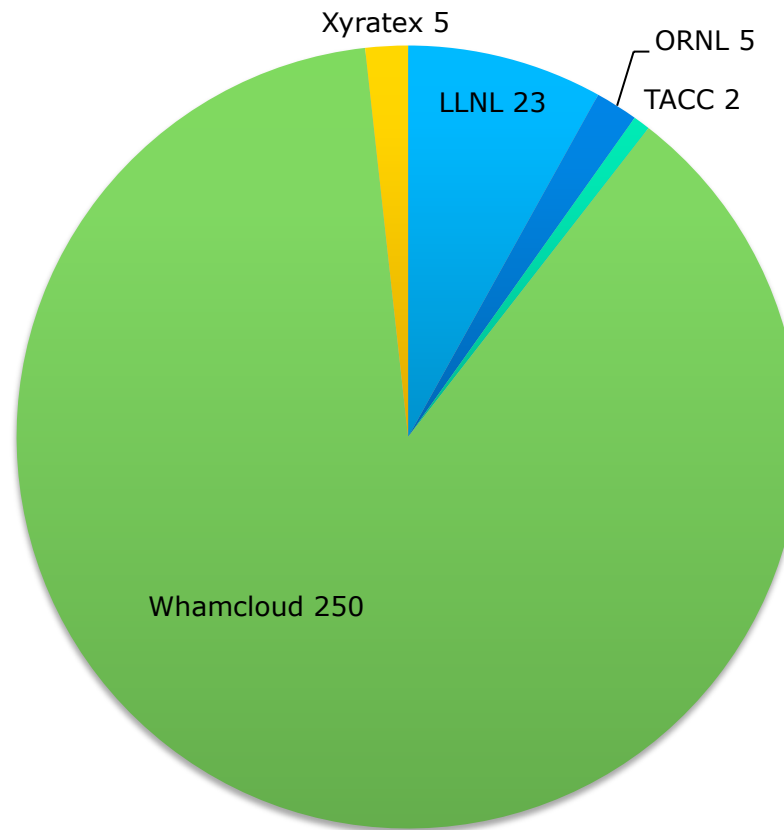
Lustre 2.1

- Scope matches original Oracle scope
 - RHEL6 Server and Client support
 - Async journal commits by default
 - Ext4 by default
 - 2.x performance to match/exceed 1.8.x
- Community collaboration using Whamcloud infrastructure
 - Weekly calls since March 1st; only missed one week (LUG week)
- Release has taken much longer than expected
 - Testing has been the major bottleneck (Hyperion/Toro)
 - Replacing the well-established legacy infrastructure has been time consuming
 - Complications from using newer kernel in RHEL6
 - CLIO major source of bugs
 - Side-effect is that legacy 1.8.x delta virtually eliminated

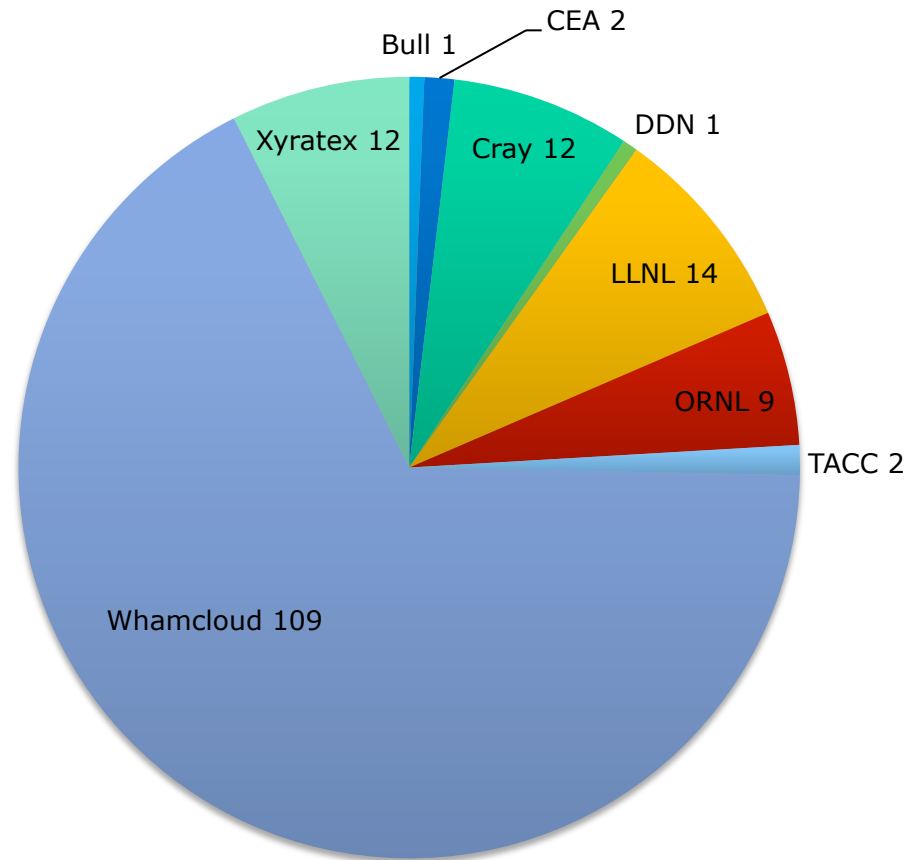
Lustre 2.1 – 376 Bugs Reported



Lustre 2.1 – 285 Patches Landed



Lustre 2.1 – 162 Patches In Progress



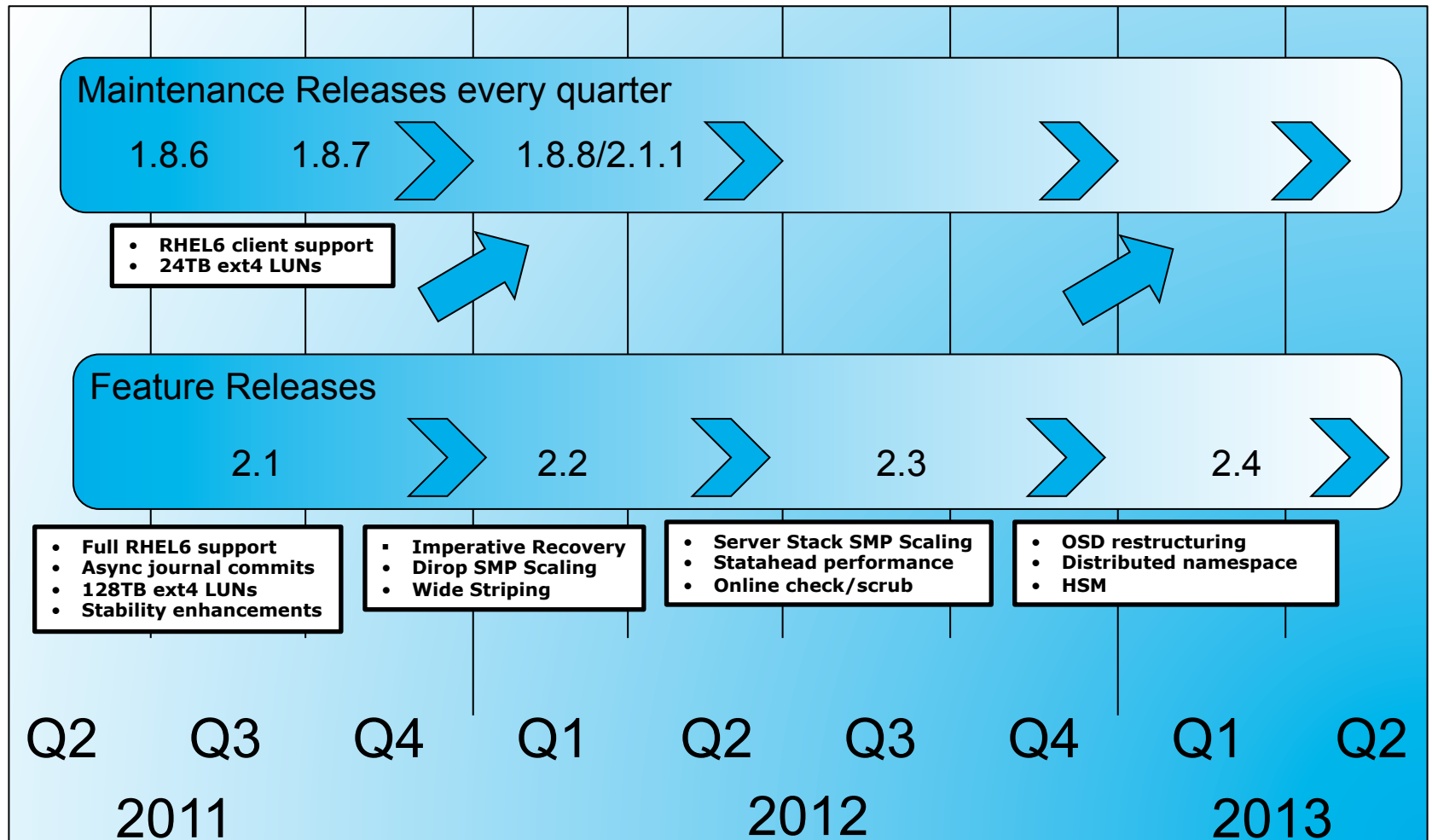
Lustre 2.2

- Initial scoping underway
 - Request put out to the community for feature candidates
 - Whamcloud NRE work
 - Unfinished features in progress from Oracle
- Targeting a March 2012 release
 - Will need to gradually land features to master and freeze to allow sufficient time for stabilization
- Updates provided via wc-discuss mailing list
 - <https://groups.google.com/a/whamcloud.com/group/wc-discuss>
(<http://bit.ly/o1Lbja>)
- Focus will be on establishing robust processes for ongoing feature releases

Lustre 2.2 (cont)

- Will support RHEL\CentOS 6 servers only
 - Will drop support for i686 client architecture
 - Hope to extend range of clients distros supported
 - If you need something else then let us know
- Targeted features
 - Imperative Recovery
 - Dirop SMP Scaling
 - Wide Striping
- May also be some other work in progress, subject to timing

Whamcloud Lustre Roadmap



Summary

- Lustre 1.8.7-wc1 out October
- Lustre 2.1 out any day now
- Maintenance release due out January 2012
 - Need to decide between 1.8.8 and 2.1.1
- Lustre 2.2 out March 2012



Thank You

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