

Lustre User Group Orlando Fl April 2011

Whamcloud Quality

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Whamcloud, Inc.



Agenda

- Whamcloud Community Wide Quality
- Repeatable Landing Process
- Scalable Quality Community Tools
- How you can help



Whamcloud Community Wide Quality

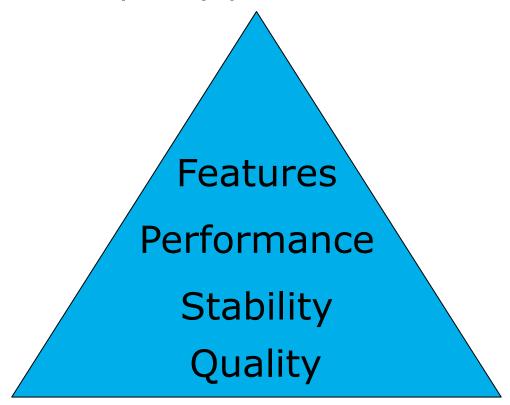
" Whamcloud is leading the charge to raise the quality bar for Lustre to equal the best of file systems in the world "

Brent Gorda CEO Whamcloud



Whamcloud Community Wide Quality

 Whamcloud's base value is that Lustre must be a stable quality product





Whamcloud Community Wide Quality

- Whamcloud is investing money, time and expertise in Quality
- ...is developing tools to enhance the Lustre community
- The whole of its engineering team is orientating itself around quality principles



Repeatable Landing Process

- To improve the quality of any product the number one requirement is to have control of the process that produces the product
- In a Quality system the Quality runs through out the process, quality is not just measured at the end

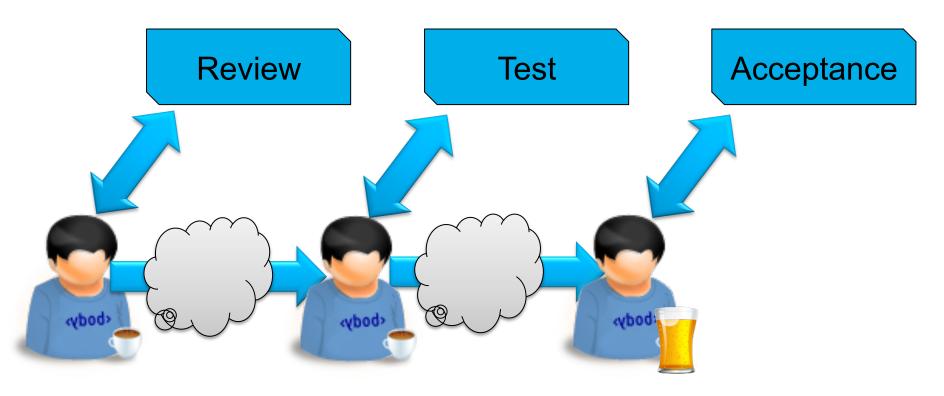


Repeatable Landing Process

- Repeatable landing process from patch submission to patch acceptance
- Increase the quality of the patches being presented for acceptance
- Use the new landing process to push quality further forward in development cycle

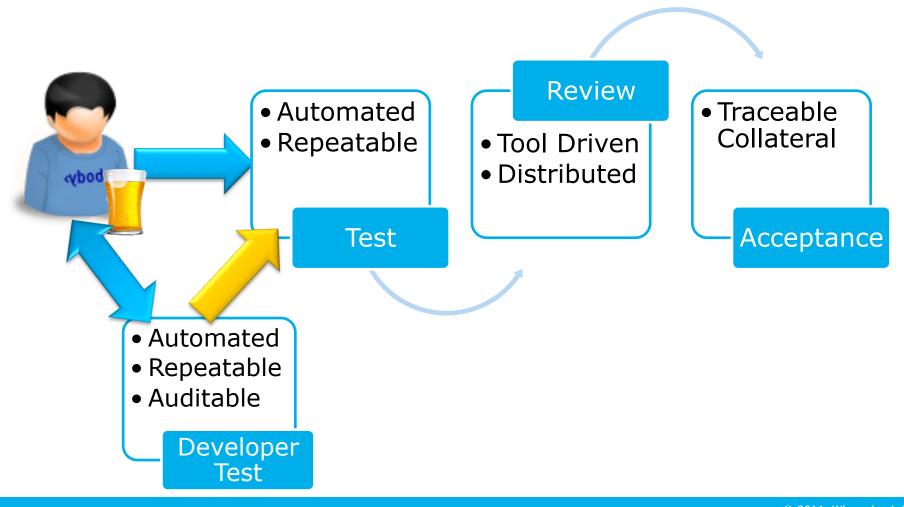


Historical Landing Process

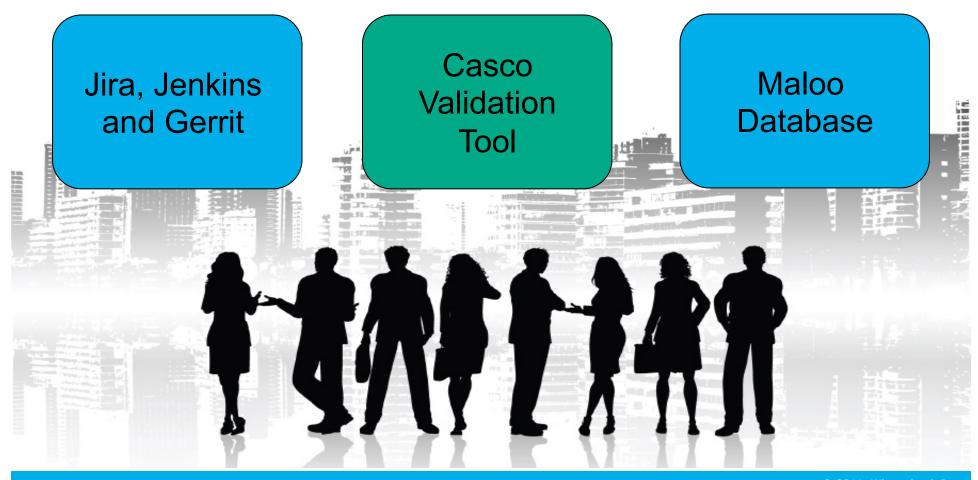




Repeatable Landing Process









Jira, Jenkins and Gerrit

Tools Live Today

jira.whamcloud.com build.whamcloud.com review.whamcloud.com

- JIRA is Whamcloud's Issue and Agile management tool
- JENKINS is the build tool that continuously builds mainstream branches and all patches submitted by the community
- GERRIT is code review tool that allows the whole community to be part of the code review process



Casco Validation Tool

- Allows anybody to automatically test builds on Lustre Clusters
- Developers can request pre-landing test sessions using Casco
- Casco enables all landings to be to automatically tested prior to review
- Casco will run on many clusters to allow automated testing on your cluster



Maloo Database Community results database

 Anyone can store results on Whamcloud's instance

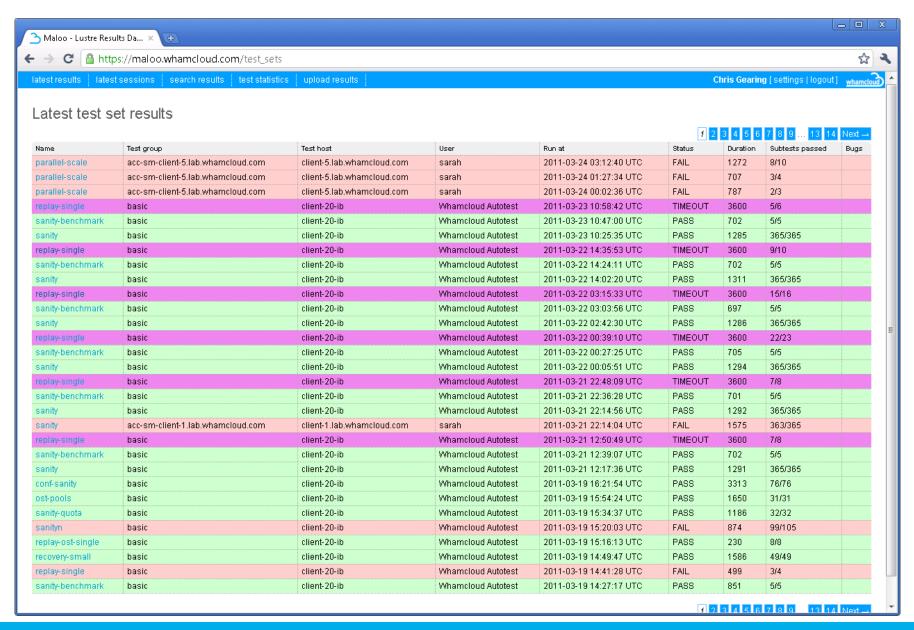
Maloo Live Today

maloo.whamcloud.com

 Anyone can setup their own Maloo instance

 Results from any Maloo can be used as landing collateral







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latest results latest sessions search results	test statistics upload result	ts .		
Creating issue				
Project:				
Lustre				
Summary:				
Test failure on test suite accep	tance-small			\$
Description:				
This issue was created by maloo	for Chris Gearing <	chris@whamclo	oud.com>	*
This issue relates to the follow				
[https://maloo.whamcloud.com/tes	t_sets/c91feb26-565	4-11e0-bb3d-5	2540025f9af].	
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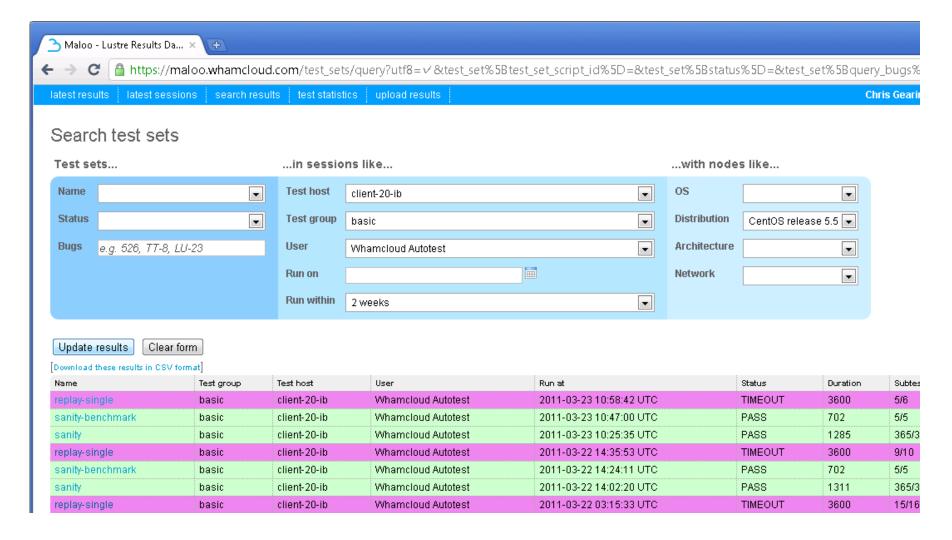


Chris Gearing [settings | logout] whamcloud

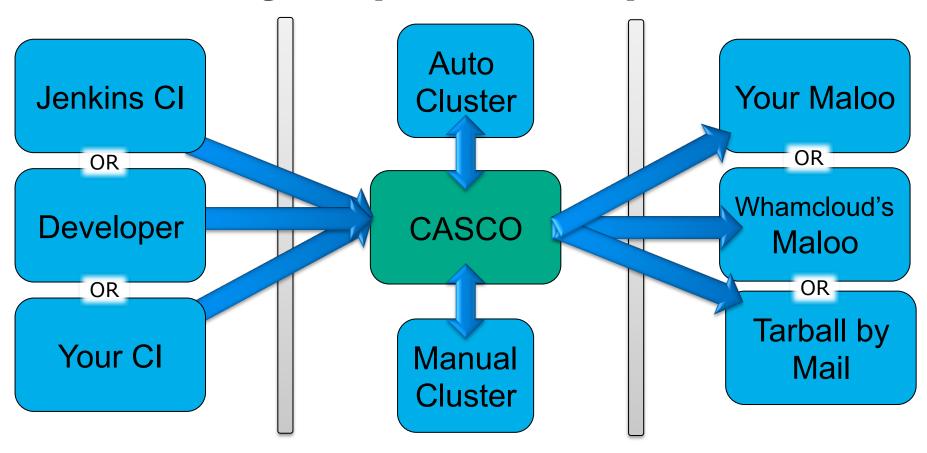


				1 2 3 4 5 6 7 8 9 13 14 Next →
	Status	Duration	Subtests passed	Bugs
ITC	FAIL	64	0/0	
TC	ABORT	0	0/0	
ITC	FAIL	1514	8/10	10494
ITC	FAIL	693	1/2	LU-157
ITC	FAIL	1323	337/366	23930, LU-151, LU-160, 22074
ITC	FAIL	1272	8/10	LU-158
ITC	FAIL	707	3/4	
ITC	FAIL	787	2/3	
ITC	TIMEOUT	3600	5/6	
ITC	PASS	702	5/5	
ITC	PASS	1285	365/365	
ITC	TIMEOUT	3600	9/10	
ITC	PASS	702	5/5	

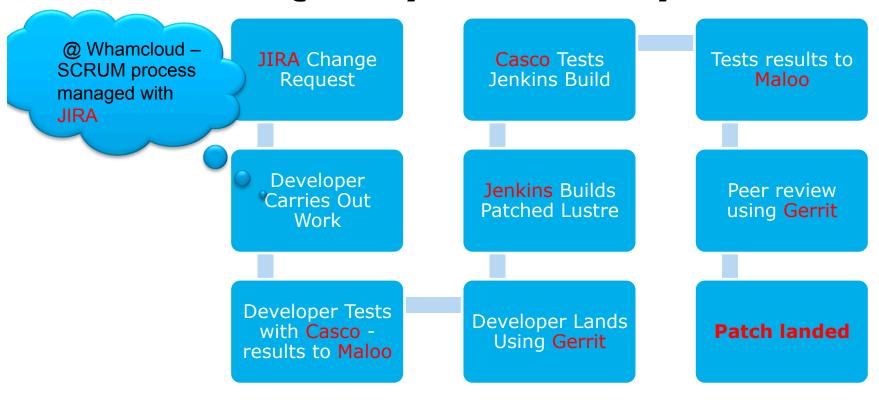














How Can You Help

- Lustre needs contributors to ensure successful development
- Help by being a Lustre code reviewer
- To release 2.1 on time we need more systems testing with results arriving in Maloo
- If you can help increase the value of the Lustre then please contact Whamcloud

Chris@Whamcloud.com



Summary

- Whamcloud Community Wide Quality
- Repeatable Landing Process
- Scalable Quality Community Tools
- You Can You Help



Thank you very much