

FreeNAS - Feature #25170

Add Resilver Priority to Storage tab

07/17/2017 11:49 AM - Kris Moore

Status: Resolved	Estimated time: 0.00 hour
Priority: Critical	
Assignee: William Grzybowski	
Category: Middleware	
Target version: 11.1-BETA1	
Severity: New	Needs Merging: Yes
Reason for Closing:	Needs Automation: No
Reason for Blocked:	Support Suite Ticket: n/a
Needs QA: No	Hardware Configuration:
Needs Doc: Yes	
Description We need a resilver "scheduler". What that means, is we have sysctl's which will bump the priority of resilver IO. Users should be able to throw that into a schedule, such as off-peak hours, weekends, etc, where they can set resilver to be more or less aggressive in its IO usage. Where this lives in the UI is open for discussion, but having the feature will become far more important as disks get larger.	
Related issues: Related to FreeNAS - Bug #25531: Add scrub sorting feature Resolved 08/10/2017	

Associated revisions

Revision 345d7f31 - 07/26/2017 09:42 AM - William Grzybowski

feat(gui): add Resilver model

Ticket: #25170

Revision 3e62ca63 - 07/26/2017 10:19 AM - William Grzybowski

feat(gui): add Resilver Priority to Storage tab

Ticket: #25170

Revision 3ad370a3 - 07/26/2017 11:25 AM - William Grzybowski

feat(middlewared): add method to configure resilver priority

Ticket: #25170

Revision 76b91c31 - 07/26/2017 11:26 AM - William Grzybowski

fix(middlewared): oops, remove print

Ticket: #25170

Revision a4770483 - 07/26/2017 11:28 AM - William Grzybowski

fix(gui): remove blank help text

Ticket: #25170

Revision 347981fb - 07/26/2017 11:36 AM - William Grzybowski

feat(rc): call pool.configure_resilver_priority at given times

Ticket: #25170

Revision 457911e8 - 07/26/2017 11:39 AM - William Grzybowski

feat(gui): restart cron and call pool.configure_resilver_priority

Ticket: #25170

Revision 290cf4c0 - 07/26/2017 11:55 AM - William Grzybowski

fix(gui): clean weekday to a comma separated list

Ticket: #25170

Revision c8ccf898 - 07/26/2017 11:55 AM - William Grzybowski

feat(middlewared): take weekday into account to configure resilver prio

Ticket: #25170

Revision 85978a42 - 07/26/2017 12:16 PM - William Grzybowski

feat(middlewared): use vfs.zfs.scan_idle for resilver priority

Ticket: #25170

Revision 4b36b5b3 - 07/26/2017 12:23 PM - William Grzybowski

fix(rc): erroneous comment

Ticket: #25170

Revision a33bbd05 - 07/26/2017 12:37 PM - William Grzybowski

fix(middlewared): use correct var for scan_idle sysctl

Ticket: #25170

Revision 1572b622 - 07/28/2017 07:16 AM - William Grzybowski

fix(middlewared): handle the case of overlapping days with weekday

Ticket: #25170

Revision 80e6a083 - 07/28/2017 07:19 AM - William Grzybowski

fix(middlewared): do not continue if no weekdays were selected

Ticket: #25170

Revision bae1068a - 07/29/2017 05:59 AM - William Grzybowski

fix(middlewareed): traceback if pool is not imported

Ticket: #25170

Revision 4a6262c9 - 07/31/2017 07:58 PM - William Grzybowski

feat(gui): add Resilver model

Ticket: #25170

Revision b55da3ed - 07/31/2017 07:58 PM - William Grzybowski

feat(gui): add Resilver Priority to Storage tab

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Revision 1d0af142 - 07/31/2017 07:58 PM - William Grzybowski

feat(middlewareed): add method to configure resilver priority

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Revision 47696e98 - 07/31/2017 07:58 PM - William Grzybowski

fix(middlewareed): oops, remove print

Ticket: #25170

Revision 0d4ae711 - 07/31/2017 07:58 PM - William Grzybowski

fix(gui): remove blank help text

Ticket: #25170

Revision 88e54d49 - 07/31/2017 07:58 PM - William Grzybowski

feat(rc): call pool.configure_resilver_priority at given times

Ticket: #25170

Revision 918d49a7 - 07/31/2017 07:58 PM - William Grzybowski

feat(gui): restart cron and call pool.configure_resilver_priority

Ticket: #25170

Revision 66c28fa2 - 07/31/2017 07:58 PM - William Grzybowski

fix(gui): clean weekday to a comma separated list

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Revision eda74cdc - 07/31/2017 07:58 PM - William Grzybowski

feat(middlewared): take weekday into account to configure resilver prio

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Revision fb757bdf - 07/31/2017 07:58 PM - William Grzybowski

feat(middlewared): use vfs.zfs.scan_idle for resilver priority

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Revision e5056109 - 07/31/2017 07:58 PM - William Grzybowski

fix(rc): erroneous comment

Ticket: #25170

Revision b76b3c91 - 07/31/2017 07:58 PM - William Grzybowski

fix(middlewared): use correct var for scan_idle sysctl

Ticket: #25170

Revision 77563755 - 07/31/2017 07:58 PM - William Grzybowski

fix(middlewared): handle the case of overlapping days with weekday

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Revision 1078efec - 07/31/2017 07:58 PM - William Grzybowski

fix(middlewared): do not continue if no weekdays were selected

Ticket: #25170

Revision c5cef421 - 07/31/2017 07:58 PM - William Grzybowski

fix(middlewared): traceback if pool is not imported

Ticket: #25170

Revision 0276a86e - 10/19/2017 10:13 AM - Warren Block

Document new Resilver Priority feature

Ticket: #25170

History

#1 - 07/17/2017 02:20 PM - William Grzybowski

- Status changed from Unscreened to Screened

#2 - 07/26/2017 12:06 PM - Ash Gokhale

defaults are thus:

vfs.zfs.resilver_min_time_ms: 3000

vfs.zfs.resilver_delay: 2

vfs.zfs.scan_idle: 50

aggressive setting:

vfs.zfs.resilver_min_time_ms: 9000

vfs.zfs.resilver_delay: 0

vfs.zfs.scan_idle: 0

A larger scan_idle will prioritize the user workload.

#3 - 07/26/2017 12:25 PM - Alexander Motin

Ash, shall we do alike for scrub?

Ash told:

There are several shared timers and start vectors for 'idle' homework. Scrub may actually be prioritized by scan_idle. I'm afraid of introducing too many dials; they will be misused.

#4 - 07/26/2017 12:58 PM - Alexander Motin

I think UI should provide just a single slider, while inside it may translate into any set of tunables.

#5 - 07/28/2017 04:07 PM - Suraj Ravichandran

- Status changed from Screened to Reviewed by Developer

Made comments, William made changes (thanks!), and now PR is approved.

PR link: <https://github.com/freenas/freenas/pull/245>

#6 - 07/29/2017 04:57 AM - William Grzybowski

- Status changed from Reviewed by Developer to Ready For Release

#7 - 07/29/2017 04:58 AM - William Grzybowski

- Status changed from Ready For Release to 19

#8 - 08/03/2017 08:49 AM - William Grzybowski

- Status changed from 19 to Ready For Release

#9 - 09/01/2017 08:19 AM - Dru Lavigne

- Subject changed from Resilvering Priority UI to Add Resilver Priority to Storage tab

#10 - 09/27/2017 06:36 AM - Dru Lavigne

- Target version changed from 11.1 to 11.1-BETA1

#11 - 10/18/2017 09:25 AM - Bonnie Follweiler

- *File Screen Shot 2017-10-18 at 12.24.30 PM.png added*
- *Needs QA changed from Yes to No*
- *QA Status Test Passes FreeNAS added*
- *QA Status deleted (Not Tested)*

Test Passed in FreeNAS-11-MASTER-201710180506
Screenshot provided

#12 - 10/19/2017 04:52 AM - Alexander Motin

- *Related to Bug #25531: Add scrub sorting feature added*

#13 - 10/19/2017 03:22 PM - Dru Lavigne

- *Status changed from Ready For Release to Resolved*

Files

Screen Shot 2017-10-18 at 12.24.30 PM.png	102 KB	10/18/2017	Bonnie Follweiler
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