OpenAFS
Status Report

Michael
Meffie,
OpenAFS
Release Team

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Michael Meffie, OpenAFS Release Team

June 14, 2023

Objectives

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- Updates on work done for the OpenAFS stable release branches

- Report on work merged to the main development branch

- Status of planned future work

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- Stephan Wiesand, OpenAFS Release Manager

- Ben Kaduk, OpenAFS Guardian

- Every Thursday at 12:00 noon Eastern via IRC

    - channel #openafs-releaseteam
    - libra.chat

- Agenda:

    - Changes for OpenAFS Stable (1.8.x)
    - Changes for OpenAFS Development

Gerrit

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- All code changes are reviewed on https://gerrit.openafs.org

- For information on how to submit code changes, see:

  https://wiki.openafs.org/devel/GitDevelopers/

- Changes for master should be based on the current master branch.

- Changes for stable must be submitted as stacks based on 1.8.x

  - Changes must already exist on the master branch
  - Limited refactoring patches may be accepted to allow for cleaner backports.
  - Please coordinate with the Release Team before submitting to stable branch on gerrit.

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- Performs test builds of each gerrit submission
    - buildbot.openafs.org is hosted by MIT
    - Community provided builders for various platforms
    - Ansible managed configuration
    - Molecule used for local testing
    - https://github.com/openafs-contrib/afsbotcfg
- New contributed builders in 2023
    - AlmaLinux 9
    - AIX 6
    - AIX 7
    - macos11
    - macos12

OpenAFS Releases

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- 1.8.9 December 2022
- 1.8.10pre1 May 2023

OpenAFS 1.8.9

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Platforms

- Linux 6.0 Support

- FreeBSD 12.3 support

OpenAFS 1.8.9

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Highights

- Reject negative inputs in the filesever FetchData RPC. (Previously, negative inputs resulted in the volume being taken offline.)

- Fix string buffer overflow in kernel module when queried with "cmdebug".

- Avoid more panics in the kernel module in failure conditions.

- Warn when server processes are started without keys.

- Avoid DNS lookups in fs commands when not needed (getcellstatus, checkservers, setcell).

- Red Hat RPMs: defer loading the OpenAFS kernel module

OpenAFS 1.8.10pre1

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Platforms

- Apple macOS 13 "Ventura" support

- Apple Silicon support

- Linux 6.3 support

- AIX 7 support

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Highlights

- Take the readonly volume offline during "vos convertROtoRW"

- Improved error messages and diagnostics

- Add fs getfid -literal option for Unix clients

- Trim trailing slashes from paths given to "fs lsmount" and "fs flushmount"

- Fixed potential cache inconsistencies for symbolic link metadata

- More kernel panic avoidance and removed all strcpy() calls from kernel module

TODO

Questions?

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Thank you