



Avere OS 4.8.11.2 Release Notes

2020-05-13

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New in Avere OS 4.8.11.2

Resolved Issues

Filesystem

- 5534498 Fixed a race condition in the domain name lookup cache that could cause a crash.
- 5997035 Fixed a bug where an ENOENT error could cause the node to lose connection to a junction. Also addressed an issue to prevent a crash in read-only mode when the target of an object pointer was removed and caused a null pointer.
- 6397274 Fixed an issue to prevent a crash in read-only mode when the target of an object pointer would be removed, causing a null pointer.
- 6444037 Fixed a bug where an ENOENT error could cause the node to lose connection to a junction.

NFS

- 5993954 Addressed a defect in the receipt of Kerberized NFS client operations. The defect could cause the file system service to restart and generate a core file.

SMB/CIFS

- 5996747 Fixed a defect in the CIFS clustered database where internal socket send operations did not handle retries for non-terminal errors (such as EINTR). These failed socket send calls could lead to watchdog core files in any of the CIFS related processes.
- 5997035 Addressed a defect in which a core file from a failed CIFS logon service process could cause problems in a valid CIFS logon service process. Now, a failed process causes the remaining process to restart gracefully.

Before this change, the remaining process could write excessive log messages. The messages could eventually fill the log partition and cause additional system instability. High CPU utilization was also seen in this situation.
- 5996748 Fixed a memory leak in the CIFS name service process, which could cause a core file. The memory leak was triggered by a share disconnection.
- 6342688 Fixed code to prevent an SMB service restart that could happen when a client performed many tree connect operations within the scope of one TCP connection.
- 6423289 Addressed a potential SMB process restart and associated core file when a SMB client requested an open file list for a vserver.

New in Avere OS 4.8.11.1

Resolved Issues

Filesystem

- 26646 Fixed an issue involving a race condition that could cause a rename operation to fail.
- 26706 Updated code to prevent a stale pointer value from being read as part of a core filer directory metadata read.
- 26779 Correctly clear metadata if a rename operation fails.
- 27074 Fixed a problem that could cause permission issues after a file's CIFS or ACL mode changes on a cloud core filer.

General

- 27120 Changed how the Elastic Network Driver (ENA) requests memory. Before this change, the ENA driver requested 16K memory buffers for each packet, which quickly depleted the memory pool. The ENA driver now requests smaller buffers per packet based on the maximum transfer unit size.

SMB/CIFS

- 26220 Fixed a defect involving CIFS ACL data management jobs (both move and mirror) from cloud core filers. The defect could cause a filesystem service restart with associated core file, or a data management job failure.

New in Avere OS 4.8.10.1

Resolved Issues

Cloud Object Store

- 25845 Fixed a problem in the cache file system that caused the process that writes data to the cache disks to stop. This problem affected a database used by the cloud filesystem code, and could cause system restarts.
- 26179, 26401 Reduced memory consumption by improving management in the cloud module memory system.
- 26469 Fixed an issue that could cause directory segments to become inaccessible after an upgrade, thus blocking accesses to multiple entries in the directory.

Filesystem

- 26225 Fixed a problem with token state management to prevent inappropriate token revocation.
- 25949 Improved the token management procedure for handling tokens after the related file has been written to backend storage and removed from the cache.

- 26205 Improved performance by forwarding additional metadata operations when always-forward mode is enabled. This change reduces the chance that a token will be revoked prematurely from the node that holds a file's write token.
- 26255 Fixed a service restart related to a race condition in the directory name lookup cache component under heavy file recycling load.
- 26654 Fixed a bug where the cache manager lookup could erroneously return an access error when the optional extended-user credential groups feature was enabled and the directory didn't have proper tokens.

NFS

- 25023 Addressed an internal configuration timing race that could cause the filesystem service to fail during startup after a software upgrade.

Previous Avere OS Updates

For information about previous Avere OS changes in version 4.8, consult these earlier release notes:

- [Avere OS 4.8.9.1 Release Notes](#)
- [Avere OS 4.8.8.3 Release Notes](#)
- [Avere OS 4.8.7.2 Release Notes](#)
- [Avere OS 4.8.6.1 Release Notes](#)
- [Avere OS 4.8.4.3 Release Notes](#)

Release notes for Avere OS versions before version 4.8 are available from the Avere Systems documentation home page, [azure.github.io/Avere/#release_notes](https://github.com/Avere/avere/#release_notes).

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