Avere OS 5.3.6.4 Release Notes

2020-10-28

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Copyright Information

New in Avere OS 5.3.6.4

Resolved Issues

Filesystem

8126540   Additional work was done to fix issues with group IDs outside the first 16 in the groups list. This issue affected customers who use extended groups. The symptom of this problem was that a file's group ID (GID) could not be changed if the GID was not one of the first 16 groups listed for the account.

General

6885031   Fixed an incorrect path that could cause the system to fail to find CA certificates in a custom certificate bundle. Before this change, the problem could result in broken symbolic links in the Avere OS certificates directory.

New in Avere OS 5.3.6.3

Resolved Issues

Filesystem

8126540   Fixed an issue that could prevent a file owner from changing a file's group ID if the GID was not one of the first 16 in the groups list.

General

8035682, 8050881   Improved failover for sending secure email notifications from the cluster. Now, if TLS negotiation fails, connections are restarted without encryption. Emails are sent in plain text until the next email notification job starts.

                   To avoid TLS negotiation failures, make sure that your SMTP server uses cipher suites that are compatible with Avere OS.

                   This change also fixes a system restart that was associated with a problem in the email utility.

New in Avere OS 5.3.6.2

7630081   This release corrects a problem introduced in the previous version, which could lead to excessive numbers of DNS queries for cloud core filers in AWS and GCE cloud environments.

This fix avoids the problem by restricting the number of cloud core filer addresses used for certain tasks, and by setting a default maximum of NAS core filer addresses to avoid generating excess DNS queries.

New in Avere OS 5.3.6.1

Resolved Issues

Filesystem

7081961   Fixed a problem with space calculations for caches located in the cloud. In some situations, the problem could cause the cache to stop performing operations.

General

6518120   The control panel alert history now lists cleared conditions as well as showing alerts.

7227579   Added a new support information upload type, `securitylogs`, which captures audit-related log files. This type of data can be uploaded more frequently than full support bundle uploads.

7238654   Added support for sending support uploads to Azure blob storage with immutability policies configured. Immutability is required in some cases for long-term security audits.

Read more about immutability policies for Blob storage (https://docs.microsoft.com/azure/storage/blobs/storage-blob-immutability-policies-manage)

6600899   When users upload support-related cluster information from the control panel, they are notified that Microsoft's handling of the data is subject to the EULA and privacy policy.

NFS

5411717   Updated the XML-RPC method corefiler.modify() so that it now can be used to change NAS core filer IP addresses without changing DNS names.

Before this change, the corefiler.modify() method would not start the transition if the old and new DNS name were the same.

6529386   Namespace changes now complete more quickly. Specifically, the XML-RPC methods vserver.addJunction(), vserver.modifyJunction(), and vserver.removeJunction() were updated to take less time.

6529374	Improved the amount of time it takes to show exports for a newly created core filer that does not use the local directories feature in its cache policy.
	This change affects the amount of time between the start of the XML-RPC method corefiler.create() and the completion of to the nfs.listExports().
6529372	Decreased the execution time for the XML-RPC methods nfs.modify(), vserver.addJunction(), vserver.modifyJunction(), and vserver.removeJunction().
6529373	Reduced the amount of time needed to create a NAS core filer. This change modified the XML-RPC corefiler.create() method so that it resolves NAS core filer DNS addresses 20 to 30 seconds sooner.
7054774	Added support for resolving Isilon SmartConnect round-robin DNS names. Other Isilon SmartConnect modes are not supported.
5416783	An alert was added to detect address changes in a NAS core filer's DNS entry. The alert is raised if the addresses returned do not match the addresses in use.
	Avere OS does not automatically switch to using new addresses. To start using the new addresses, use `corefiler.modify()` or follow the instructions in the alert. An administrator also can resolve the alert by restoring the previous addresses.

SMB/CIFS

| 7227579 | Fixed a defect that prevented the SMB process from restarting after certain types of memory allocation failures. In general, the Avere OS SMB/CIFS process is configured to restart and write a core file if there are memory allocation failures. |

New in Avere OS 5.3.5.1

Resolved Issues

Filesystem

2765262	Fixed a defect that caused the cache to fail to complete flushing data to back-end storage. Additional improvements were made to improve error detection.
5132942	Fixed a problem in the HA module that could prevent cluster creation from completing.
5239663	Enhanced filesystem access speed while the cache is being populated in the background.
5727571	Fixed an out-of-memory condition that occurred when the cluster file system recovery tool encountered very large directories. (This situation involved dozens of directories with more than a million entries each.)
5816179	Eliminated a waiting period before starting failover if the filesystem process is failing with a core file.
5865574	Disabled bloom filters for directories with names that can cause a rare type of hash collision. This change prevents a possible system restart.

6017076	Addressed a defect that prevented the cache from synchronizing with the back-end data structure after back-end directory entries were removed by writing around the cache cluster.
6031250	Improved accuracy in directory flushing.
6055784	Fixed a problem that could cause a restart during initialization or HA setup if statistics are being collected.
6113410	Fixed a crash caused by uninitialized memory.
6254713	Fixed a problem that could cause the link count to be off by one if a directory was renamed to the same name as an existing directory that was empty. (The existing empty directory would be overwritten but still appeared in the count.)
6278225	Fixed initialization processes to prevent a possible core loop.
6290767	Addressed an issue that could cause a filesystem restart if connection requests to a cloud core filer timed out.
6416424	Added internal settings that treat all Azure HPC Cache storage targets as WAN connected storage.
6446744	Fixed an issue that could cause TLS connections to be opened too frequently to cloud back-end storage, resulting in peer resets.
6515235	Added more debugging information to print XML string to log messages in case of error.
6528488	Fixed an issue that caused problems upgrading software when cluster nodes had different software versions.
7046266	Fixed an issue where the XML parser failed to parse an empty token in a REST response.
7119939	Fixed a bug in read-only caching code that could cause nodes to restart.

General

2682245	Updated code to ensure that the correct HTTP proxy configuration is always used when attempting to connect to Azure endpoints.
5374631	Fixed username/password-authenticated proxy handling when downloading an upgrade package for Avere OS.
5877092	Added cluster proxy configuration into requests for the Azure endpoints API when standing up an Avere vFXT for Azure service.
6037898	Increased the page pool size for vFXT extra large instances to reflect the correct memory size.
6122754	Patched a resource leak in a third-party PHP module that could cause Apache to become unresponsive to requests.
7087347	Updated the XML-RPC API code for creating Azure Blob core filers on cloud-based clusters. After this change, the system attempts to detect the blob storage hostname if not supplied, instead of assuming that it is blob.microsoft.net.
7112400	Changed software to prevent a node management system crash if a user-configured management address was removed or became unavailable. This problem did not affect management IP addresses assigned by the cluster.

NFS

| 5865686 | Fixed a problem that could cause cluster nodes to go into a pending state after connectivity problems with NAS core filers. |

| 6008216 | Corrected a problem that could cause communication issues with a cluster node. The root cause was a defect that allowed an IP address from an NFS client performing NLM lock operations to be reassigned as a cluster address. |
| 6213517 | Fixed an error that caused the XML-RPC method `nfs.listExports()` to repeat export discovery even when configured to not retry. |

SMB/CIFS

5997035	Removed a defect that could cause the CIFS logon service process to enter a bad state after an unrelated core file was generated in a different CIFS logon service process. This situation could cause symptoms that included high CPU utilization and excessive log messages (which could lead to system instability if the log partition became full). After this change, the remaining CIFS logon service process restarts gracefully.
6056374	Replaced an internal utility used to download netgroup, username, and username map URIs after a FreeBSD upgrade caused it to stop working. The new utility supports both http and https.
6214156	Help for the XML-RPC method `corefiler.create()` has been updated to indicate that NetApp Cluster-mode core filers require the `filerClass` attribute to be set only if CIFS ACL junctions exist.

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