

Avere OS 5.1.5.2 Release Notes

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Table of Contents

New in Avere OS 5.1.5.2	
Resolved issues	
Cloud object store	
Filesystem	
General	
SMB/CIFS	
vFXT.py	2
New in Avere OS 5.1.3.1	
New in Avere OS 5.1.1.2	6
Contact Microsoft Customer Service and Support	15

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New in Avere OS 5.1.5.2

This release includes several bug fixes. It is applicable for all customers.

Resolved issues

Cloud object store

26941	Fixed a bug so that files can flush to the core filer even in the rare situation when a file handle hash collides with the hash of a reserved file handle.
27264	Fixed an issue that could cause TCP connection requests to the cloud back-end to get stuck during SSL negotiation, requiring a filesystem restart.

Filesystem

26061	Installed proper locking to prevent future file system crashes while examining internal log entries. Diagnostic debugging tools were also added to help diagnose any future crashes in related systems.
26576	Corrected code that resets pointers to metadata files during failover.
26682	Fixed a timing-related memory corruption that could be triggered when the file count was extremely high. Before this change, this problem could cause a restart and core file when using HA features.
26914	Changed an algorithm in the name cache to prevent a situation where the number of entries allocated could exceed the maximum threshold.
27011	Fixed a race condition during directory population code flow.
27215	Updated code to ensure that inactive flush requests are cleared from the request log.
27267	Corrected a condition that could cause a system restart when the local cache space was close to its limit.
27278	Removed an improper assert that could cause a node outage when using FlashMove $^{\text{TM}}$ and a cloud core filer.
26796	Sped up the file scan time to improve performance during file validation after restarting the cluster.
26859	Improved buffer management and added quota controls to avoid deadlocks while flushing data to cloud storage.
27196	Fixed a problem that could cause a deadlock when opening metadata files in the cache directory manager.
27244	Corrected a reference-after-free memory issue that could occur during heavy cold-filling from a core filer.

General

27014 Cluster proxy server connection tests now tolerate failures with short timeouts. This change allows the proxy configuration to be honored even if the proxy service is not always reliable. 27031 Fixed a software defect that could cause the management layer to fail and restart when the number of assigned client IP addresses in the cluster was reduced. This failure affected each cluster node in turn as management control switched to healthy nodes. If you need to reduce the number of virtual interfaces (client- or cluster-facing) before updating to version 5.1.5.1, contact Microsoft Customer Service and Support for advice. 27101 Fixed a recently introduced bug that caused newly added nodes to have the default admin password instead of the password configured in cluster settings. 27184 Fixed an issue that interfered with running the ping command directly on cluster nodes. The ping command no longer runs within a secure sandbox. 27213 Remedied a failure that could cause statistics collection to fail with the error <stat name="req.<unknown>"> <value type="UINT64">260</value></stat>

SMB/CIFS

16960	Changed code to prevent the CIFS clustered database from entering a core file loop during times when network connectivity between nodes is poor.
18881	Added more logging to internal memory map handling to provide more debug information before this problem occurs.
23717	Addressed an SMB service restart with associated core file in cases where the client performed many tree connect operations within the scope of one TCP connection.
25107	Fixed a defect where a CIFS ACL service restart with associated core file occurred due to a TCP connection race issue with the SMB service of a NAS core filer.
26112	Addressed a potential SMB process restart and associated core file when a SMB client requested an open file list for a vserver.

vFXT.py

27119 Improved retry handling when assigning or removing an IP address on an Azure network interface during failover scenarios.

In order to take full advantage of these changes, the cluster nodes should be authorized to read virtual networks. This authorization is built into the standard Avere Operator role, which is described in the Avere vFXT for Azure planning document. If you used a custom role for your vFXT cluster, update it to include the authorization Microsoft.Network/virtualNetworks/read

New in Avere OS 5.1.3.1

This release includes several bug fixes. It is applicable for all customers.

Resolved issues

Cloud object store

25845	Fixed a defect in a cache file system database that could cause a process restart in the system that writes data to the cache disks.
26556	Changed code to avoid an out-of-memory condition that could cause an assert to be tripped under heavy load.
26754	Removed a rare race condition that could sometimes result in objects being written to cloud storage with invalid names.
26756	Increased the frequency of checks for upcoming cloud credential expirations.

Filesystem

25047	Fixed an error that could cause the filesystem to restart because a filesystem service got into an unexpected state.
25963	Eliminated a reference leak on a filesystem object, which could cause a system panic during a restart.
26255	Fixed a race condition in the directory name lookup cache component, which could cause a system restart under heavy file recycling conditions.
26532	Changed FlashMirror code to ensure that all files that are marked out-of-sync on both the primary node and the mirror node are copied if there is a failover event.
26640	Divided high availability file consistency checking after an HA write failure into multiple chunks to avoid a system restart because of the watchdog timer.
26654	Fixed an issue that could cause an incorrect "access" error to be returned for a core filer that has the optional extended user credential groups feature enabled. The problem was caused when the target directory did not yet have proper tokens.
26678	Moved flush request processing to separate tasks to prevent a possible process restart.
26796	Sped up the file scan process to reduce the time needed for HA file validation after cluster startup.

26852 Updated code to prevent a system restart that could happen if an optional directory repair tool is used on a directory at the same time the directory is being removed. 26891 Fixed an issue that caused the filesystem to restart when it tried to process an operation that required metadata files and logs to be opened and ready. General 26604 Corrected a problem that created invalid support uploads because a placeholder cluster name from the Avere Control Panel was incorrectly passed as the unique cluster name. Always set a unique cluster name that will identify your cluster to support personnel. 26666 The network driver for vFXT nodes in Microsoft Azure has been changed to handle network hardware resets better. These resets occur as part of regular maintenance of Azure servers, such as network card firmware updates. Before this change, a network hardware reset could cause the vFXT node to lose network connectivity and need to be rebooted. After the fix, the driver handles the reset transparently and no action should be required from the user. 26723 Fixed a problem where bootloader messages and prompts were not being shown on the serial-over-LAN console for some 2000-series, 3000-series and 4000-series FXT models. 26854 Changed behavior so that when a hardware cluster node is wiped, the previously set password is preserved. Before this change, a node that was restored to factory settings did not have a node management password until after it joined a cluster. 26856 Fixed a connectivity problem in clusters with VLANs configured to use alternate default routers. The problem was caused by the system incorrectly assigning IPs and routes for the affected VLANs. 26870 Fixed an issue with a cluster recovery tool that put the cluster in a state requiring engineering intervention to complete the recovery. 26883 Fixed a regression that caused the serial port to connect at 9600 baud instead of 115200 baud. The issue was introduced in Avere OS 5.1.1.2 because of an upgrade to FreeBSD 11.2. **NFS** 24155 A change was made to avoid timeouts in cache-to-cache communication among cluster nodes by overriding custom settings that exceed internal connection resources. 26753 Addressed a filesystem service restart and associated core file during upgrade to V4.8.9.1 or later release from a release prior to V4.8.9.1. The defect involved Open

Network Computing Remote Procedure Call (ONCRPC) communication among nodes

within the cluster.

SMB/CIFS

A defect was fixed that involved CIFS ACL data management jobs (both FlashMove and FlashMirror) from cloud core filers. The defect could cause the data management job to fail, or cause a filesystem service restart (with a core file).

The outbound NTLMSSP default setting for new vservers created with Avere OS version 5.1.2.1 is different from the setting for the previous release (5.1.1.2).

The current default values are:

- disable_outbound_ntlmssp-yes
- ntlm_auth-no

The previous release had ntlm_auth set to yes.

Administrators might choose to enable outbound NTLMSSP to work around problems with Kerberos domain join. Consider security risks before changing this setting. The setting can be changed by using the XML-RPC command method cifs.setOptions.

Addressed two defects involving DNS Service Resource Record lookups for Microsoft AD domains. The first defect involved not switching to TCP after UDP lookups failed due to large responses. The second defect involved failed lookups using EDNS against Windows 2008R2 DNS servers.

Added a custom setting to avoid contacting domain controllers that do not permit access. The failed accesses resulted in log spam for the cluster.

Contact Microsoft Customer Service and Support for details about how to apply the custom setting in the CIFS Name Server (winbindd).

Fixed a defect that could cause a vserver to fail to join an AD domain when the domain controller is configured with RequireSecuritySignature? set to 0. If RequireSecuritySignature? is set to 1, domain joins can succeed, but customers must verify that all devices joined to the domain are configured to support signing with domain controllers.

The workaround for this defect is to disable this particular signing path, however, this should only be done if the security risks are considered.

Contact Microsoft Customer Service and Support for more information and to learn how to apply the custom setting.

New in Avere OS 5.1.1.2

Avere OS 5.1 includes bug fixes, feature improvements, and significant security enhancements.

Security updates

This release improves security standards in several areas in order to comply with Microsoft security requirements.

Additional changes and bug fixes are documented in the <u>Resolved issues - Security</u> section later in this document.

SSL and TLS updates

Avere OS now requires the following standards for SSL and TLS:

- TLS1.2 must be enabled
- SSL V2 and V3 must be disabled

TLS1.0 and TLS1.1 may be used for backward compatibility with private object stores; contact Microsoft Customer Service and Support for details.

Permitted cipher suites

Microsoft security requirements permit the following TLS cipher suites to be negotiated:

- ECDHE-ECDSA-AES128-GCM-SHA256
- ECDHE-ECDSA-AES256-GCM-SHA384
- ECDHE-RSA-AES128-GCM-SHA256
- ECDHE-RSA-AES256-GCM-SHA384
- ECDHE-ECDSA-AES128-SHA256
- ECDHE-ECDSA-AES256-SHA384
- ECDHE-RSA-AES128-SHA256
- ECDHE-RSA-AES256-SHA384

The cluster administrative HTTPS interface (used for the Avere Control Panel web GUI and administrative RPC connections) supports only the above cipher suites and TLS1.2. No other protocols or cipher suites are supported when connecting to the administrative interface.

Update private object storage to maintain compatibility

The SSL and TLS changes in this version can impact customers using private object storage cloud core filers that are not updated to the current standard.

If the encryption software on your private cloud core filer is incompatible with the above <u>cipher suites</u> and TLS 1.2, you might lose access to the core filer.

CAUTION

Your Avere cluster might lose connectivity to your private object store core filer after installing this update if the core filer does not use compatible encryption software. Contact Microsoft Customer Service and Support before installing Avere OS 5.1 to avoid possible service disruption.

For compatibility with this version of Avere OS, your private object store cloud core filer must meet these requirements:

- TLS 1.2 must be enabled
- SSL V2 and V3 must be disabled
- The TLS cipher suites in the <u>permitted cipher suites</u> list above must be supported

Consult your private object storage vendor to confirm that it complies with these standards. Take any additional necessary steps to ensure that the private object environment is correctly updated and configured.

If your core filer cannot be brought into compliance, there is a temporary workaround available through Microsoft Customer Service and Support. Remember to remove this workaround after your core filers have been updated.

In general, it is a good practice to update and audit your private object core filers to maintain security standards.

SSH server updates

To meet Microsoft security standards, the security of the cluster node SSH server has been tightened.

Remote login as the superuser "root" has been disabled. If remote SSH access is required under the guidance of Microsoft Customer Service and Support, you must log in as the SSH "admin" user, which has a restricted shell.

The following SSH cipher suites are available on the cluster SSH server. Make sure that any client that uses SSH to connect to the cluster has up-to-date software that meets these standards.

Ciphers	aes256-gcm@openssh.com
·	aes128-gcm@openssh.com
	aes256-ctr
	aes128-ctr
MACs	hmac-sha2-512-etm@openssh.com
	hmac-sha2-256-etm@openssh.com
	hmac-sha2-512
	hmac-sha2-256
KEX Algorithms	ecdh-sha2-nistp521
	ecdh-sha2-nistp384
	ecdh-sha2-nistp256
	diffie-hellman-group-exchange-sha256

Resolved issues

Cloud object store

23802	Improved management of the cloud snapshot database to avoid system panics. Before this change, the snapshot database object could grow very large, even though the number of actively needed snapshots was small. This fix improves database parsing efficiency and also ensures that the snapshot object file is not larger than the number of undeleted snapshots.
25227	Fixed an incorrect alert that suggested a cloud bucket or container could not be found after an Avere OS upgrade.
25717	Reduced the number of log entries from the certificate verifier component.
25837	Added automation to some cloud core filer modifications so that they no longer require service restarts.
25845	Fixed a bug in a database that could inappropriately stop the process that writes data to the cache disks.
25913	Improved performance of file creates and file lookups in directories by adding bloom filter support.
25992	Changed the way Avere OS handles a REST parse error for non-data objects from AWS storage. Now it returns a jukebox code instead of returning I/O error.
25995	Fixed a problem with snapshot identifiers to ensure that only the latest snapshot ID is used.
26157	Implemented a timer to fix timeout issues with HA barriers.
26159	Added a timer to reduce TCP connections on overwhelmed Amplidata core filers.
26179	Reduced memory consumption by improving memory management in the cloud module memory system.
26187	Fixed two issues related to certificate checking.
26235	Fixed a problem that could sometimes cause a system restart because flags were set incorrectly during express snapshot creation.
26338	Eliminated an issue that could cause a system restart when reattaching cloud storage to a cluster with a newer Avere OS version than used previously.
26341	Fixed an issue where a restart would occur if an object handle snapshot did not exist in the cloud core filer.
26366	Fixed a logic error that could cause a loop because a variable was defined in the wrong location.
26401	Removed string buffer bugs found under boundary conditions.
26469	Fixed an issue that could cause directory segments to become inaccessible after an upgrade, blocking accesses to multiple entries in the directory.

26556	Addressed an issue where cloud object segment sizes and number of segments were improperly set, causing a service restart.
26647	Disabled a bloom filter to fix a problem where a move from a source to a destination would cause a core loop if the destination already had the file.

Filesystem

i ilosystem	
23719	Added a feature to enable asynchronous writes and improve small file write performance.
23849	Fixed an issue that could cause continuous restarts in the migration code.
24307	Improved performance of rename actions by 30%.
24506	Resolved a problem that affected read-ahead caching on the Avere cluster. Linux-based NFS clients maintain their own client-side file caches, and this cache is populated with the client's own read-ahead. If the file being read is not in the Avere cache, and the NFS client read-ahead calls arrive out of order (that is, the read for the file's offset-zero segment comes in later than other reads), the Avere read-ahead calls for cache population of a "cold" file were not being sent.
24562	Added a feature to automatically identify and remove orphaned inodes.
24721	Added a custom setting to adjust the threshold that triggers local file replicas to be created.
24791	Added tracking for HA operations.
25003	Fixed a race condition in detecting the available space for internal metadata structures.
25084	Added code to fix a race condition in the token request system that could happen when failover caused changes in a mirror relationship.
25376	Fixed resource leaks in the cloud filesystem that caused occasional crashes due to memory shortages.
25439	Added more visibility into the status of the HA voter component.
25949	Improved token management when recycling files from the cache.
25963	Fixed an issue that could cause a service restart when adding or removing nodes or upgrading software.
25970	Corrected an incorrectly set flag that could cause long lookup times, timeouts, or system restarts.
25980	Fixed a filesystem service restart caused by performing read-ahead operations on a file that was concurrently being reclaimed from the cache due to space constraints.
26040	Changed code to correctly initialize the field _aclFlags.
26044	Fixed an error updating a task counter. This issue could cause a system restart when the task was cleaned up.
26140	Fixed an issue where temporary files prevented a migration job from completing.

26151	Corrected a situation where token management references were lost, causing system restarts.
26205	Updated code to also forward fsstat, pathconf, and fsinfo operations when alwaysforward is set.
26225	Changed code to prevent unnecessary token revokes because the token owner was incorrectly identified.
26255	Fixed a crash related to a race condition in the Avere Directory Name Cache component when recycling large numbers of files from the cache.
26270	Accelerated performance of the version database.
26296	Changed filesystem code to allow the Avere system to read a core filer directory even when some directory entries are inaccessible because of permissions. This change allows some core filer exports to be visible to the cluster and others to be ignored.
26307	Fixed an issue where retrying certain operations eight times caused a restart.
26309	Fixed code to prevent a filesystem restart caused by incorrectly cleaning up lock-related flags from failed operations.
26377	Removed a division-by-zero error bug that could be triggered by an inode file size of zero.
26414	Fixed a bug where an ENOENT error could cause the node to lose connection to a junction.
26452	Updated code for directory entry pruning to avoid problems caused by long queues.
26544	Fixed an issue that unnecessarily incremented an iterator on a data structure that was being erased.
General	
21874	Changed log procedures to avoid repeated messages if HA is not enabled.
22141	Updated the help file for the XML-RPC method alert.override() to remove the incorrect implication that alert UUIDs are deprecated.
22259	Added time stamps and time ranges to traces and XML-RPC output.
22584	Fixed a filehandle leak in the Avere OS maintenance process.
22914	Added performance metrics to logs and XML-RPC output.
23762	Fixed a display issue in the Avere Control Panel related to directory service polling updates.
23792	Updated the API error message for proper formatting of private keys.
23896	Fixed an issue that caused the Avere OS management web service to restart.
24485	The Avere Control Panel now shows which cluster node is primary and which node the session is connected to. This information appears at the right side of the cluster

name.

24856	Output about cluster upgrade status now displays plain text instead of HTML-encoded text.
24964	Updated the hidden alerts function to consistently apply parameter filters.
25037	Added a Users table to the dashboard that displays the IDs of recently active users and the number of operations they've performed. User activity can be displayed by node or cluster-wide (all nodes).
25144	Adjusted permissions for read-only XML-RPC API users to make sure that they can access non-modifying methods.
25406	Improved the layout and usability of the Alerts table in the Avere Control Panel dashboard.
25569	Fixed a bug that prevented support uploads from including custom settings.
25579	Fixed a bug in lock contention handling when reading the configuration database.
25583	Custom graphs in the Analytics tab now display core filer names in the legend instead of internal names.
25840	Fixed an issue caused by locks allocating more memory than needed.
25899	Fixed a bug that prevented uploading a new software image from a local machine.
25941	IP addresses on the IPMI settings page are now links that open a connection to that IPMI port.
25987	Fixed a software alert message to correctly identify software upgrade status.
26106	Upgraded to FreeBSD 11.2.
26166	Corrected an issue where a memory-related default was not set correctly on FXT 5850 hardware systems.
26229	Improved security by removing the ability to reuse cookies to execute XML-RPC commands.
26237	Fixed an issue where the SPS agent would stop and not restart.
26273	Added a file locking option in the cache policy management section of the Avere Control Panel. Use the Advanced settings section to select or clear the Enable NLM caching checkbox.
26408	Added a filtering option in the Alerts table of the Avere Control Panel Dashboard. You can choose to view only conditions, only alerts, or both conditions and alerts.
Migration	
21725	Fixed an issue where a migration would not release an inode at file close unless it was a destroy operation.
23849	Fixed an issue that caused migration code to restart continuously.
25499	Changed code to properly repopulate a migrated subdirectory in the file system. This change prevents getting a stale junction after a junction refresh following a data migration.

- 25708 Fixed code to correctly handle cloud snapshot deletion when a snapshot has already been deleted from some nodes.
- 26140 Fixed a problem where some tasks were not marked as complete after a migration.

NFS

- 10363 Fixed several defects involving NFS export policy reference counts. These issues could result in the inability to delete an unused policy. Upon upgrade, this change corrects NFS export policy reference counts that were set incorrectly because of these defects.
- This ticket increases the number of supported NLM clients per vserver client-facing address from 4096 to 10000. This increased limit is consistent with the 10000 NFS client limit per node when only one client-facing address per node is allocated. This change only applies to new vservers created with a build containing this change. Downgrades to builds not containing this change are prohibited if the new feature has been used, because the new vserver will not process lock operations correctly after downgrade.
- 19883 Addressed NIST security vulnerability CVE-1999-1225.
- 24876 Improved LDAP/AD compatibility of the Avere Control Panel login system. Specifically:
 - Removed the requirement to enable both LDAPS and LDAP with StartTLS on the LDAP server. Now, only LDAPS is required. (Enabling LDAP with StartTLS is optional.)
 - Allows custom LDAP and LDAPS ports to be configured. Use the XML-RPC method dirServices.modify login to set the variables LDAPport or LDAPSport.
 - Attribute queries can now be set to ad or rfc2307 instead of the default, auto. The auto setting searches for both types of attributes, which is slower and can cause timeouts when used with large LDAP trees. Use the XML-RPC method dirServices.modify login to set the variable loginQueryAttributes.
- Addressed an internal configuration timing race that could cause the filesystem service to fail during startup after a software upgrade.
- 25491 Improved the NFS core filer RRDNS change procedure.
- Implemented NLM lock caching for NAS core filers. This feature is available only on new clusters created with a build containing this change.

 NLM lock caching for NAS core filers is enabled by default for system cache policies that do not allow directly connected clients. Custom cache policies can control the behavior using the XML-RPC methods cachePolicy.create() and cachePolicy.modify() by specifying the enableNlmCaching parameter.
- This change fixes a defect where the XML-RPC method nfs.modify() did not correctly handle changes to a subset of the available options.

 The workaround for this defect is to specify all of the options in each call to nfs.modify().
- 26560 Added a buffer size check to prevent a possible internal string overflow.

26562 Fixed two defects found in an on-box debugging tool. These failures are not thought to have caused any problems at customer sites.

Security

The procedure for storing cluster login information used with the Cluster Manager feature has changed. The Cluster Manager allows you to monitor multiple clusters from a single web page.

Before this change, the usernames and passwords used to access the remote clusters were stored in cleartext in an internal configuration file. The configuration file could be uploaded to the Avere support portal as part of troubleshooting, possibly exposing the passwords outside the cluster.

Now the login information is stored in a protected key distribution database that is stored on the cluster and never uploaded for support.

It is strongly recommended that all affected customers change the administrative passwords on clusters monitored in the Cluster Manager. Configure the Cluster Manager to use read-only accounts to connect to the remote clusters.

23579 Improved security by denying root access over SSH except from addresses in the local cluster.

26081 Updated PHP software to version 5.6.37.

26119 Fixed port vulnerabilities identified by the following NIST CVE numbers:

CVE-2017-15710	CVE-2018-1302	CVE-2018-7323	CVE-2018-7331
CVE-2017-15715	CVE-2018-1303	CVE-2018-7324	CVE-2018-7332
CVE-2017-3738	CVE-2018-1312	CVE-2018-7325	CVE-2018-7333
CVE-2018-0495	CVE-2018-6798	CVE-2018-7326	CVE-2018-7334
CVE-2018-0732	CVE-2018-6913	CVE-2018-7327	CVE-2018-7335
CVE-2018-0737	CVE-2018-7320	CVE-2018-7328	CVE-2018-7336
CVE-2018-0739	CVE-2018-7321	CVE-2018-7329	CVE-2018-7337
CVE-2018-1283	CVE-2018-7322	CVE-2018-7330	CVE-2018-7417
CVE-2018-1301			

When an HTTP request is redirected to HTTPS, the system now returns the status code 308 (moved permanently) instead of 302 (moved temporarily).

SMB/CIFS

26443

18095	Addressed a defect that could result in a CIFS service restart if the user token was unknown.
18917	Added interlocks that prevent advanced SMB/CIFS share options associated with POSIX mode bit junctions from being set on CIFS ACL junctions.
19493	Fixed an issue that prevented users with non-read access to a file or directory from accessing the file or directory at all.
23716	Addressed a problem that affected NetApp Clustered Data ONTAP core filers and prevented adding or modifying a subdirectory junction when the export policy prevented one of the components of the filepath from being created.

23843 Addressed a defect in Data Management out-of-sync processing for CIFS ACL migrations to cloud core filers. Out-of-sync processing of Native Identity File/Directory creations now fetches the source ACL from an internal cache rather than failing to fetch from the core filer. 23895 Resolved an issue where client calls to fetch SMB ACLs could cause recursive forwarding between FXT nodes due to an internal file-operation-routing loop. 25154 Addressed a defect in the receipt of Kerberized NFS client operations that could cause a filesystem service restart. 25576 Corrected an error that prevented the Force directory mode setting from displaying in the CIFS share details page on the Avere Control Panel. 25866 Fixed an issue where an SMB1 client could cause a CIFS service restart by performing repeated authentications. 25872 Updated code to prevent a filesystem service restart that could occur when invalid UTF-8 characters were present in NFS directory entry names. Problems were seen when these invalid directory entries were reported in the Data Management or Hot Files features. 26190 Fixed a problem that could cause a filesystem service restart when an SMB client lists large directories through a CIFS ACL junction. 26462 Addressed a defect that could occur when a NAS core filer returned an error in response to an SMB1/SMB2 FILE_INFO query operation. This defect caused failures with two different symptoms: A long running operation on an SMB/CIFS client, which could possibly result in an operation timeout. An eventual restart of the CIFS ACL service because of a memory leak related to the original core filer error response. 26506 A problem was fixed that caused an NFS username lookup to sometimes return the UID of a different user that had the same primary GID. This could cause SMB clients to see incorrect file ownership or incorrect ACE identities in access control lists. 26522 For increased security, new vservers are now configured with outbound NTLMSSPN disabled. Contact Microsoft Customer Service and Support for more information about the implications of this change. **vFXT** Updated vFXT deployment code to ensure that AWS tags are consistently applied. 24457 24700 Removed external internet dependencies from vFXT systems running in AWS C2S. 26592 Fixed an issue that caused a service restart when attempting to look up network configuration in GCE projects with large numbers of virtual machines. 26595 Fixed an issue that could cause VM instance lookup to fail if the region information returned by the GCE API did not include zones for each region.

Contact Microsoft Customer Service and Support

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By email: averesupport@microsoft.com