

Operating System Release Notes

Version 7.0.0

2021-05-05

Supports:

Azure FXT Edge Filer (all models)

Avere FXT (all models)

Avere vFXT for Azure

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What's new in version 7.0.0

This release includes bug fixes, improved support for Azure products including Azure HPC Cache, and security improvements.

Resolved issues

Filesystem

- 5728834 Made vFXT cluster upgrades faster.
- 7262084 Added revocation checks for intermediate CA certificates when connecting to a cloud storage system.
- 7820530 Updated locking code to avoid a core file from a rare symlink collision.
- 8632234 Fixed a software incompatibility issue that could cause a software upgrade to stall.
- 9703402 Fixed a bug that could cause the system to return uninitialized attributes for the root of a storage junction.

General

- 4983281 On FXT hardware systems, the ability to boot into single user mode by interrupting the boot process has been disabled to prevent potential unauthorized access to the system.
- 5913694 Fixed an uncommon kernel crash that could occur when a disk device was detached.
- 7499724 Fixed a livelock in the Hyper-V network driver that could occur when the owner of the lock was high priority and bound to a specific CPU.
- 7521461 Removed redundant logging code in the critical path to avoid performance degradation during logging I/O.
- 7869874 The device hints file was updated with settings that modify the receive and transmit queue depth for higher performance of the ConnectX-4 card.
- 7851409 Added a new **Root squash by default** option to the **Add New VServer** dialog in Avere Control Panel. If enabled, the option adds root squash to the vserver's default policy. This setting prevents clients with local root access from having root privileges on the storage export.
- 8229487 OS disk caching is now enabled when creating user-space core files. This change significantly reduces down time after program crashes.
- 8138172 Updated code to create a dashboard alert if the system event log reports a PCIe critical interrupt event. This hardware issue is also reported in the support log.
- 8307420 Changed the upgrade status notification so that it correctly reports 100% at completion.

- 8676307 Upgraded the python cryptography module, addressing potential security vulnerabilities including CVE-2020-25659.
- 8732836 Improved error handling during upgrades. This fix affects errors that occurred when detecting which features are supported by the target package.
- 9832589 Addressed an uncommon startup race condition that could result in the filesystem process's failing to start up correctly when a node is rebooted.
- 8870470 Fixed a problem with IPMI configuration. The order of IPMI commands was changed to make it possible to assign a static IPMI address to a cluster node. Before this change, a static IPMI configuration change could automatically be reset to DHCP mode.
- 9283408 Removed support for running Avere vFXT clusters in Amazon EC2 and Google Compute Engine.
- 9448288 Increased the amount of memory reserved for the operating system in certain system configurations to avoid memory swapping.
- 9518754 Fixed a bug that caused the core filer creation wizard to hang indefinitely if the user created a new Azure cloud credential as part of the operation.

NFS

- 5236089 Changed code to prevent a file system service restart and associated core file when the verifier length parameter in the ONCRPC call header is set to large values from 4294967293 to 4294967295. This change applies to all XDR-opaque values, such as the maximum filename length.
- 8971107 Fixed a defect where a kernel network buffer allocation failure was handled incorrectly for Local Directory and HA operations between nodes. The defect resulted in a file system service restart with associated core file.
- 9546191 Resolved file location issues that caused NFS Kerberos access outages after an upgrade to the Heimdal library FreeBSD port. The upgrade, introduced after Avere OS version 4.8.11.2, changed the expected default location for Kerberos configuration files.
- 9546195 Fixed a problem that prevented a condition from being raised when the Kerberos keytab could not be read.
- 9774594 Addressed a defect that caused the login services feature for AD/LDAP to fail to authenticate users.
- 9848752 The NFS ONCRPC connection multiplier was changed to 8 for new core filers that are created with the `xnfsVersion` attribute specified.

SMB

9377921 Fixed a problem that caused the User/Group download process to not download user and group data from the configured source after a management service restart. Before the fix, the defect could result in failures involving SMB access to POSIX mode bit shares, NFS extended groups, or NFS Kerberos.

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Phone: 1-888-88-AVERE, Option 2 (Toll-Free)
1-412-894-2570, Option 2

Email: averesupport@microsoft.com