

2.4U1.2

Aug 24, 2018

Acronis Storage 2.4 Update 1.2

Changes

- **Bug fixes.**

Fixed issues

- [VSTOR-13682] Creation of Acronis Backup Gateway over NFS fails with error "Failure domain is not set".
- [VSTOR-13516] Creation of network bonds could fail in some cases.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in web control panel. A reboot is required to complete the update. Updated nodes will be rebooted automatically, one at a time. During the reboot, the storage service might be unavailable on cluster configurations without the redundancy of services or data.

2.4U1.1

Aug 06, 2018

Acronis Storage 2.4 Update 1.1

Changes

- **Bug fix.**

Fixed issue

- [VSTOR-13181] MDS could fail during update from 2.4 to 2.4 Update 1 in some cases.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in web control panel. A reboot is required to complete the update. Updated nodes will be rebooted automatically, one at a time. During the reboot, the storage service might be unavailable on cluster configurations without the redundancy of services or data.

2.4 U1

Aug 03, 2018

Acronis Storage 2.4 Update 1

Changes

- **Security improvements and bug fixes.**

Fixed issues

- **Acronis Backup Gateway**
- [VSTOR-11436, VSTOR-9899, VSTOR-9719] Bug fixes and improvements in communication between Backup Gateway and Data Cloud, backup agents, and external object storages.

Performance and data balancing

- [VSTOR-10144] Improved performance of clusters with SSD cache under extremely high load.
- [VSTOR-9973, VSTOR-10892, VSTOR-12305] Improved algorithms for space allocation and balancing when adding nodes/disks to cluster.
- [VSTOR-9406] Improved I/O latency on all-SSD clusters.

Licensing

- [VSTOR-12495, VSTOR-10978] Bug fixes in the SPLA licensing registration procedure and space usage reporting.

UI/UX

- [VSTOR-10540] More precise calculation of physical space on Storage cluster overview in web control panel.
- [VSTOR-9792] A false positive warning could be issued about network interfaces missing important features.
- [VSTOR-9784, VSTOR-9785, VSTOR-9690, VSTOR-9689] The current product version is now displayed in the updates section of web control panel.
- [VSTOR-11214, VSTOR-10605, VSTOR-10584, VSTOR-9595] UI and usability improvements.

Other

- [VSTOR-10432] Republished Azure solution template to avoid metadata creation on ephemeral disks.

Obtaining the update

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2.4

Apr 19, 2018

Acronis Storage 2.4

Changes

- **Service Provider License Agreement (SPLA) for Storage 2.4 in Data Cloud 7.7.** Users now can license Acronis Storage in Data Cloud Management Console using a service provider license agreement (SPLA) instead of a license key. The Storage cluster will automatically report usage to Data Cloud for accounting and billing purposes. Acronis Data Cloud 7.7 or newer is required.
- **Acronis Backup Gateway for Google Cloud Platform.** It is now possible to store backups from Acronis Backup Cloud and Acronis Backup Advanced on Google Cloud Storage via Acronis Backup Gateway.
- **Connect iSCSI as local disks.** It is possible to connect remote iSCSI SAN LUNs as disks to Storage nodes. The disks can be used for cluster needs, for example, to store Acronis Backup Gateway backup data.
- **Automated migration from Acronis Storage 1.5 to 2.4.** It is now possible to automatically migrate backup data from Acronis Storage 1.5 (end of life) to storage backends supported by Acronis Backup Gateway. Automated migration is performed without service interruption.
- **Other enhancements:** better overall stability and performance.

Fixed issues

UI/UX

- [VSTOR-5722] Wrong locale in Alerts list.
- [VSTOR-8855, VSTOR-8309] Reduced memory consumption by Redis and UI-Backend.
- [VSTOR-6743] Prevent removal of WebCP role from the last network interface.
- [VSTOR-8419] Hide the "Error details" button if there are no details.
- [VSTOR-5288] User email addresses are not checked for uniqueness.
- [VSTOR-9331, VSTOR-6743, VSTOR-6856, VSTOR-9126, VSTOR-9167, VSTOR-8899, VSTOR-5252, VSTOR-5200, VSTOR-5922, VSTOR-6748, VSTOR-9267, VSTOR-6389] Set of UI and usability improvements.

iSCSI

- [VSTOR-9202] iSCSI is not fully stopped in certain conditions.

Acronis Backup Gateway

- [VSTOR-8753, VSTOR-8812] All Swift parameters must be optional if Keystone v2 or v3 is used.
- [VSTOR-5048] Need to improve retrievals in Acronis Backup Gateway for unstable network connections.
- [VSTOR-5376, VSTOR-7464, VSTOR-8226, VSTOR-7734, VSTOR-8938, VSTOR-7281, VSTOR-6862, VSTOR-6286, VSTOR-7579, VSTOR-7277] Set of Acronis Backup Gateway improvements.

Performance and stability improvements

- [VSTOR-9163] I/O request may hang when redundancy settings (replicas) are changed.
- [VSTOR-9130] To reduce load on disks, data scrubbing must be relaxed when Acronis Storage is running in virtual machines.
- [VSTOR-6399] High load average due to hanging of vstorage-mount in some cases.
- [VSTOR-9198, VSTOR-8411] Acronis Backup Gateway may crash on migration due to a segfault in astor_client_set_host.
- [VSTOR-8319, VSTOR-5744, VSTOR-8388] Possible file descriptor leakage ("too many open files") in Storage components.
- [VSTOR-6343, VSTOR-6007, VSTOR-5210, VSTOR-6262, VSTOR-6394, VSTOR-6971, VSTOR-6975, VSTOR-9266, VSTOR-9205, VSTOR-7822, VSTOR-5673, VSTOR-2956] Set of improvements to Storage core.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in WebCP. A reboot is required to complete the update. Updated nodes will be rebooted automatically, one at a time. During the reboot, the storage service might be unavailable on cluster configurations without the redundancy of services or data.

2.3 U1

Dec 13, 2017

Acronis Storage 2.3 Update 1

Changes

- **Improved performance.** The new memory allocator (tcmalloc) reduces memory footprint.
- **Improved performance and stability of backup migration.** Automated migration of backup data from Acronis Storage Gateway v1.x via Acronis Backup Gateway is now faster and more stable.
- **Added NFSv4 support for MacOS.** Users can now connect to Acronis Storage cluster via the NFSv4 protocol from MacOS, using Finder or CLI. See more Information in the User's Guide.
- **Improved localization and usability of WebCP.** Fixed moving the network management role across adapters. Fixed checking of NFS share IP addresses. Other improvements.
- **Better S3 browser support in Mozilla Firefox.** Fixed the problem with downloading objects in the S3 browser in Mozilla Firefox.
- **Improved ISO installer.** Fixed problems with rescanning disks and installation without network.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in the WebCP. After the entire cluster is updated, you will need to reboot cluster nodes one at a time. During the reboot, the storage service might be unavailable on cluster configurations without services or data redundancy.

2.3

Nov 07, 2017

Acronis Storage 2.3

What's new?

- **Support for Object Storage (S3, Azure, Swift, etc.) by Acronis Backup Gateway.** Users can now store Acronis Backup Cloud backups in external object storages via Acronis Backup Gateway. Supported object storages include Microsoft Azure, Amazon S3, IBM Cloud, Alibaba Cloud, IJ, Softlayer, Cleversafe, as well as other solutions using the S3 or Swift protocol.
- **Automated backup data migration from Acronis Storage Gateway v1.6 and v1.7 via Acronis Backup Gateway.** It is now possible to migrate backup data from the older Acronis Storage Gateway solutions to storage backends supported by Acronis Backup Gateway. Migration is performed without service interruption.
- **NFS support.** Users can now store general purpose files in Acronis Storage cluster via the NFSv4 and pNFS protocols. Also supported now is Kerberos and LDAP integration with NFS for user authentication and authorization.
- **Acronis Backup Gateway geo-replication (technical availability).** Acronis Storage 2.3 provides the technical availability of master-slave geo-replication of backup storage. For now, this feature can only be configured by technical account managers and the Professional Services team.
- **E-mail notifications.** It is now possible to receive e-mails about cluster alerts, including license expiration, node/disk failure, and such.
- **Quality of service for iSCSI.** It is now possible to set limits on IOPS and network bandwidth per iSCSI target.
- **Custom SSL certificates for WebCP.** Users can now install custom SSL certificates via the management panel to enable secure access to it.
- **Improved Acronis Backup Gateway monitoring.** It is now possible to monitor Acronis Backup gateway traffic as well as replication and migration backlog and speed.
- **Other improvements:**
 - Better stability on large clusters (more than 500 nodes or 10PB of data).
 - Reduced WebCP backend resource consumption.
 - Improved WebCP user experience: WebCP localization support (English and Russian).
 - Ability to forcibly delete the Acronis Backup Gateway cluster without unregistering it from Acronis Backup Cloud.
 - Better overall stability and higher object storage performance.

Known issues

- Linux NFS client working via pNFS in the O_DIRECT mode may hang if Storage cluster is not available due to a bug in the Linux NFS client.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in the WebCP. After the entire cluster is updated, you will need to reboot cluster nodes one at a time. During the reboot, the storage service might be unavailable on cluster configurations without services or data redundancy.

2.2

Jun 20, 2017

Acronis Storage 2.2

What's new?

- **Alerts in Web UI.** It is now possible to get useful notifications about potential issues and misconfigurations (license alerts, cluster nodes alerts, network alerts, and cluster services health). The system monitors cluster configuration, health of cluster services, network links, and disk health. Critical Alerts are exported via SNMP.
- **Audit of Web UI actions.** It is now possible to get a log of all user actions in Web UI: (configure, change, create).
- **S3 geo-replication.** Acronis Storage can now store and keep up-to-date replicas of data in multiple geographically distributed datacenters with S3 clusters based on Acronis Storage. Geo-replication works in the Active-Active mode.
- **Automated management node HA.** It is now possible to have management node data continuously replicated between redundant management node instances.
- **SNMP monitoring and ZABBIX integration.** It is now possible to get monitoring counters (space, health, license, IOPS, throughput, disk load, etc.) via SNMP version 2. Management node HA, if enabled, makes this feature highly available as well.
- **Role-based user model.** Acronis Storage 2.2 provides improved security and control with role-based user access, increasing flexibility without risking cluster security.
- **LDAP and Active Directory support.** Storage admins and users can now authenticate in storage clusters using their LDAP/AD credentials.
- **Performance optimizations.** Erasure coding is now faster. Storage for Acronis Backups is optimized.
- **Acronis Backup Gateway for NFS.** Users can now store Acronis Storage (in the non-clustered mode) and Cloud RAID 1+2. This new encoding mode is meant for small clusters that have insufficient nodes for other erasure coding modes but will grow in the future. As redundancy type cannot be changed once chosen (from replication to erasure coding or vice versa), this mode allows one to choose erasure coding even if their cluster is smaller than recommended. Once the cluster grows, more beneficial redundancy modes can be chosen.
- **Acronis Backup Gateway certificate renewal.** It is now possible to renew expired backup certificates via Web UI.
- **SSL on Web UI by default for new installations.**
- **Other improvements:** Better stability, object storage scalability, security, processing of batch operations (assign/release) for disks.

Known issues

- S3 geo-replication requires either HTTP-only setup (evaluation) or HTTPS on both datacenters with real certificates obtained from well-known certificate authorities. Setups with self-signed certificates will require manual configuration.
- Objects notarization is not fully compatible with geo-replication. Only signatures created in one datacenter will not be replicated to another datacenter.

Obtaining the update

You can update Acronis Storage by clicking "Update now" in the management panel. Node reboot is required after updating. Note that during update from 2.1 to 2.2, S3 cluster will stop processing client requests. It will resume normal operation after all nodes in the S3 cluster are fully updated.

2.1

Mar 13, 2017

Acronis Storage 2.1

What's new?

- **Management node backup/restore.** It is now possible to backup the management node database to the cluster. In case of management node failure, user can at any time restore the management node on any Acronis Storage node and continue managing the cluster.
- **Flexible SSD cache configuration.** It is now possible to attach a caching SSD to a specific tier. This is useful if multiple tiers are required and only some of them need to be cached.
- **Improved network configuration.** Multiple improvements were introduced to network configuration capabilities to support more cluster configurations.
 - MTU and DNS configuration. New options allow setting custom MTU and DNS via the web UI.
 - Ability to open custom ports in firewall. It is now possible to amend automatic firewall settings by specifying custom ports to open on a cluster node. This feature allows one to run custom services on Storage nodes, e.g., Zabbix.
- **S3 HTTPS configuration via management panel.** It is now possible to upload SSL certificates to S3 and have users access the object storage via HTTPS. It is also possible to generate self-signed certificates for evaluation. The web UI is now fully accessible via HTTPS.
- **Activity LED blinking for PERC and LSI controllers.** Now you can have disks on all LSI and Perc controllers to blink their activity LEDs.
- **Improvements to the Services section.** New tabs for S3, iSCSI, and Acronis Backup Gateway services simplify navigation and service management.
- **New S3 overview screen.** The new S3 overview screen offers a better view of the current S3 configuration and provides access to the user control panel.
- **Support of a single VM installation for Acronis Backup Gateway on a cluster over SAN/NAS.** It is now possible to configure several MDS servers on a single node to support single VM installations with Acronis Storage 2.0 deployed over share provided by SAN/NAS.
- **Improved Acronis Storage integration with Acronis Notary.** Better hash algorithms are now used: SHA-256 instead of MD5. Also, support for multipart uploads is improved.

Obtaining the update

You can update the new version with the "Update now" feature of the management panel. Node reboot after update is required.