



StorPool

DISTRIBUTED STORAGE

StorPool 19.2 Change Log

StorPool

Nov 29, 2022

CONTENTS

1	19.2 revision 19.01.2173.0ca29830b	2
2	19.2 revision 19.01.2156.b87fc49d8	3
3	19.2 revision 19.01.2137.71224a0ce	4
4	19.2 revision 19.01.2120.40c434b67	5
5	19.2 revision 19.01.2099.32074a501	6
6	19.2 revision 19.01.2084.34da44f18	7
7	19.2 revision 19.01.2068.b4804fe04	8
8	19.2 revision 19.01.2016.c4bc17cda	9
9	19.2 revision 19.01.2012.bc34dd830	10
10	19.2 revision 19.01.1991.f5ec6de23	11
11	19.2 revision 19.01.1957.1a9a9bb68	12
12	19.2 revision 19.01.1949.1aea86986	13
13	19.2 revision 19.01.1946.0b0b05206	14

14	19.2 revision 19.01.1942.0464eda88	15
15	19.2 revision 19.01.1907.2389092f3	16
16	19.2 revision 19.01.1905.5a6c7e113	17
17	19.2 revision 19.01.1879.4679753db	18
18	19.2 revision 19.01.1816.16fa37c0d	19
19	19.2 revision 19.01.1813.f4697d8c2	20
20	19.2 revision 19.01.1795.5b374e835	21
21	19.2 revision 19.01.1732.02297f62b	22
22	19.2 revision 19.01.1720.8c71b2ec3	23
23	19.2 revision 19.01.1689.6a0aa758b	24
24	19.2 revision 19.01.1656.1d6d61d3f	25

More details for the changes are available at Release Notes

Release 19.3, more details [here](#).

19.2 REVISION 19.01.2173.0CA29830B

Released: 07 July 2021

- Moves handling of the heavier queries (`VolumesSpace`, `SnapshotsSpace`) back to the `storpool_server` service for a significant speed-up in clusters with many volumes and snapshots.
- Moves per host status reporting from `storpool_abrtsync` to `storpool_stat` for lower latency on per-node monitoring alerts.

19.2 REVISION 19.01.2156.B87FC49D8

Released: 29 June 2021

- Adds fix for `storpool_ctl` not detecting `storpool_server` instances properly when adding/removing/changing disks with different number of instances.
- Adds an automatic cleanup of `storpool_initdisk` cached data on a change with the tool or the `storpool_nvmed` service.
- The `storpool_stat` submodule responsible for reporting service issues will now skip `storpool_server` instances with ejected disks.

19.2 REVISION 19.01.2137.71224A0CE

Released: 19 June 2021

- Adds fix for `storpool_kubcsi/iSCSI` combination causing an abort in `storpool_mgmt` service.
- Adds kernel version override in `/usr/lib/storpool/getpackage`
- Adds more validations in upgrade helper tooling.

19.2 REVISION 19.01.2120.40C434B67

Released: 11 June 2021

- Adds support for CentOS 8.4 up to the 4.18.0-305.3.1.el8.x86_64 kernel.
- Adds fix for dummy interfaces under LACP bonds to be considered as no-carrier interfaces.
- Removes the no longer used `storpool_reaffirm` service.

19.2 REVISION 19.01.2099.32074A501

Released: 5 June 2021

- Adds initial support for Intel E810 network interface controllers (`ice` driver).
- Support for Ubuntu 20.04 kernel 5.8

19.2 REVISION 19.01.2084.34DA44F18

Released: 26 May 2021

- Adds fixes for the `hpssacli_helper` tool:
 - now handles output for HP Smart Array Gen 10 controllers.
 - skips failed drives, parses older output
- Adds installer fixes to execute `depmod` only for the installed kernels.

19.2 REVISION 19.01.2068.B4804FE04

Released: 7 May 2021

- Adds fix for iSCSI compare-and-write operations when IOPS limits are applied.
- Fix for BGP announcement withdrawal in routed iSCSI networks.

19.2 REVISION 19.01.2016.C4BC17CDA

Released: 30 Apr 2021

- Adds support for HGST Ultrastar SN100 and Micron 9100 Pro devices.
- Adds json output to the storpool_ctl tool.

19.2 REVISION 19.01.2012.BC34DD830

Released: 21 Apr 2021

- Adds support for Toshiba Cx5 NVMe line of drives.
- The loader now invokes `storpool_hugepages` after the `/opt` directory is mounted on boot.
- Improves some logging messages for better clarity in beacon, API, and bridge.

19.2 REVISION 19.01.1991.F5EC6DE23

Released 13 Apr 2021

- Handles small MTU in iSCSI checks for portal group and controller addresses.
- Adds `srcversion` property for kernel modules under Debian.
- Enables the `storpool-contrib` repository in CentOS by default.
- Adds the `storpoolctl` helper tool (details here)
- New implementation of the `hpssacli_helper` tool that caches the controller output (workaround for HP Smart Array opening all disks in readwrite mode).

19.2 REVISION 19.01.1957.1A9A9BB68

Released 30 Mar 2021

- Fixes for `snapshotSpace` object properties in python bindings.
- The `dsnprebase` tool is now considering transient snapshots as deleted when they no longer save any space.

19.2 REVISION 19.01.1949.1AEA86986

Released 26 Mar 2021

- Adds fix in API for the `snapshotSpace` call when `spaceUsed` is a negative value.

19.2 REVISION 19.01.1946.0B0B05206

Released 20 Mar 2021

- Adds fixes in iSCSI checks in `storpool_stat`
 - Adds support for interfaces with lower MTU on the initiators
 - Adds fix for abort when nodes are without access to the StorPool API.
 - Adds caching for the last known addresses and MTU for each known initiator (more at `relnote_iscsi_checks_initiator_caching`).

19.2 REVISION 19.01.1942.0464EDA88

Released 16 Mar 2021

- Adds CLI help readability changes and fixes some spelling errors.
- Adds fix for `storpool_beacon` LACP networks and `SP_IGNORE_RX_PORT=1` configuration.
- Support for Kubernetes worker nodes to attach StorPool volumes via iSCSI
- Not specifying an export now exports a target to all initiators for a portal group.

19.2 REVISION 19.01.1907.2389092F3

Released 9 Mar 2021

- Adds fix for a false positive check in the `disk_tester` utility.

19.2 REVISION 19.01.1905.5A6C7E113

Released 8 Mar 2021

- The `update_*` tools are now covering also the `storpool_volumecare` service.
- Adds fix for wrong MAC address initialization for the `storpool_beacon` service after NIC reset.
- Adds support for generating bridge interfaces with automation tools.
- Adds fix for ejecting the last disk on a running `storpool_server` instance not flagged as ejected.
- Includes various other improvements in internal tools and services

19.2 REVISION 19.01.1879.4679753DB

Released: 1 Mar 2021

- Reliability improvements in the `storpool_mgmt` (API) and the `storpool_bridge` services.
- API performance improvements in clusters with many volumes and snapshots (>20k).
- Includes volumecare version 1.20 fixes and updates (`volumecare_changelog`).

19.2 REVISION 19.01.1816.16FA37C0D

Released: 15 Feb 2021

- The unprivileged `storpool` account used for sending debug reports is now a system one.

19.2 REVISION 19.01.1813.F4697D8C2

Released: 08 Feb 2021

- Adds remote bridge status, showing the status of remotely connected clusters.
- Initial support for Ubuntu 20.04 LTS
- Includes improvements and fixes in internal tools, and services.

19.2 REVISION 19.01.1795.5B374E835

Released: 30 Jan 2021

- Adds support for the `vfio-pci` driver for NVMe devices (more at `relnote_vfio_pci`).
- Adds support for Western Digital Ultrastar SN200 NVMe device.
- Includes volumecare version 1.19 fixes and updates (`volumecare_changelog`).
- Includes small fixes and additions in internal services (service checks, `storpool_abrtsync`, etc.).
- Fixes a problem with OpenStack components running both in a container and on the host system.
- Includes fix in `storpool_bd` kernel module now properly showing statistics under CentOS 8 and Ubuntu's 5.xx kernels

19.2 REVISION 19.01.1732.02297F62B

Released: 15 Jan 2021

- Adds fixes for `iscsi_checks` in `storpool_stat` when network interfaces are missing.
- In-server disk tester latency measurement fixes.
- Adds fixes in tools for hugepages reservation (NVMe namespace detection)
- Updates CentOS 8 related debugging tools.

19.2 REVISION 19.01.1720.8C71B2EC3

Released: 12 Jan 2021

- Adds support for Western Digital Gold NVMe U.2 (WDS960G1D0D).
- Additional per-host checks in the `storpool_stat` service now collects checksums for all StorPool services and related configuration files.
- Adds fix for aggregation with large SATA SSD disks (7TB+).
- Adds visible function symbols for easier function tracing (i.e., with `perf top`).
- Adds small fixes in some externally visible helper tools (`netbandwidth`, `disk_tester`), internal tools and services.

19.2 REVISION 19.01.1689.6A0AA758B

Released: 08 Jan 2021

- A major internal build system overhaul.
- Adds initial support for the Intel NICs handled by the *ice* driver
- Adds support for Toshiba XD5

19.2 REVISION 19.01.1656.1D6D61D3F

Released: 22 Dec 2020

- Multicluster backup locations are now supported in volumecare (volumecare_changelog).
- New policy in volumecare (volumecare_policy_keep_daily_split).
- Includes improvements and fixes in internal tools, core and services.
- Creating a template without replication is now forbidden.
- Monitoring now also tracks connectivity between iSCSI controllers and initiators.

[Previous release here](#)