Ellexus Healthcheck Change Log

v2.11.0

1 Healthcheck 2.11.0

This release removes support for Red Hat Enterprise Linux 4.

Customer Ticket	Development Reference	Description
	1321, 2619, 2904	Added support for PBS Professional.
	1904, 2882	Upgrade to Java 8 run time environment. This change is known to break report generation on stock RHEL 4 systems.
	2714	Improved sanity checking for Healthcheck license environment variable to detect more errors without starting the application.
	2753	Altered wording of some column headings for clarity.
	2753	The Seek/Read and Open/Read tables have been replaced with Seek/IO and Open/IO tables that incorporate all I/O.
TT436	2777	Improved compatibility with LSF python API.
	2788	The PATH table has been reworked to show additional information. In addition a new table has been added to list value of `$PATH` for top level programs.
	2796, 2848	Altered the layout of some table headers to reduce wasted space.
	2799	Fixed a bug that could lead to duplicate rows being listed in the Directory Depth table.
HC42	2897	Reduce size of all tables to top 5 from top 10.
HC94	2900	The trace generated by Ellexus Healthcheck now contains data about `stat()` calls.
	2901	Added a `stat()` operation count table to the File I/O section.

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Customer Ticket	Development Reference	Description
	1322, 2446, 2477, 2698	Added support for the Slurm workload manager.
HC20	2627	File I/O latency tables now include the number of operations.
HC22	2627	Executable I/O latency tables now include the number of operations and processes.
HC50	2627	I/O latency tables now include the latency per byte for read, write and seek operations.
HC24	2660	Include Open:Close ratios for files that are opened more than they are closed.

Customer Ticket	Development Reference	Description
	2721	Fixed a bug where $HOME directory statistics were not output.

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Customer Ticket	Development Reference	Description
	2383	Add initial support for tracing on ARM v7 and ARM v8 systems.
	2601	Empty report documentation can now be created without needing to trace a program or have a license for the product. This can be done with: `./breeze-healthcheck.sh --docs -f ~/outputdirectory`
TT436	2602	Fixed a bug where a multi-threaded program being traced may not exit cleanly.
	2616	Restructure the HOME directories section of the main report. This section now only contains two sub-subsections: files accessed, and scripts and programs executed.
HC38, HC40	2618	Changed Temporary Files section so that all tables contain the same columns.
HC41	2618	Only report files that are not deleted in the potential temporary files table.
HC47, HC72	2624	File access ratios in the report are now split by process as well as file.
	2624, 2642	Added execution host, program arguments, start time, end time and job ID to summary.
HC44	2632	Add an introductory section that contains explanations / clarifications on concepts used in the main report.
HC32	2637	Sub-sections with no relevant data for the report are no longer populated with empty tables. Empty sections will now contain the text "No significant problems detected."
HC55	2649	Added a description of how `mmap()` calls are handled in the report introduction. A table of `mmap`'ed files has been added to the `dependencies.txt` file.
HC52	2655	Add the number of small I/O operations as a percentage of total.
HC82	2657	Programs.csv now includes all processes in the application, not just the ones in the report.

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Initial product release.