

LOGmanager release notes version 3.1.1

Version:	3.1.1	Date:	16.08.2018
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2 Introduction

This document describes the following summary of enhancements, support information, installation instructions, list of bug fixes, and description of new features for LOGmanager software version 3.X.X. If you need a detailed description of previous versions of 2.X.X and 1.X.X, see the LOGmanager documentation in the release notes menu or in the LOGmanager user forum here: https://forum.logmanager.com/viewforum.php?f=4

2.1 Supported models

2.1.1 Version 3.1.1

The following models are supported:

- LM-36 (2U HP 380 gen8, 12x 3TB HDD, 64GB RAM, 2x6core CPU)
- LM-36B (2U HP 380 gen9, 12x 3TB HDD, 64GB RAM, 2x8core CPU)
- LM-12B (1U HP 360 gen9, 4x 3TB HDD, 64GB RAM, 1x8core CPU)
- LM-DEMO1 (Mini ITX Intel NUC, 1x 500GB SSD, 16GB RAM, 1x2core CPU)
- LOGM-120TB-D (2U Dell R730xd, 12x 10TB HDD, 128GB RAM, 2x14core CPU)
- LOGM-48TB-D (2U Dell R730xd, 12x 4TB HDD, 64GB RAM, 2x10core CPU)
- LOGM-16TB-D (1U Dell R430, 4x 4TB HDD, 64GB RAM, 1x10core CPU)
- LOGM-120TB-H (2U HPE 380 gen9, 12x 10TB HDD, 128GB RAM, 2x14core CPU)
- LOGM-48TB-H (2U HPE 380 gen9, 12x 4TB HDD, 64GB RAM, 2x10core CPU)
- LOGM-16TB-H (1U HPE 360 gen9, 4x 4TB HDD, 64GB RAM, 1x10core CPU)
- LOGM-120TB-D-G2 (2U Dell R740xd, 12x 10TB HDD, 3.2TB SSD, 128GB RAM, 2x14core CPU)
- LOGM-48TB-D-G2 (2U Dell R740xd, 12x 4TB HDD, 128GB RAM, 2x10core CPU)
- LOGM-16TB-D-G2 (1U Dell R440, 4x 4TB HDD, 64GB RAM, 1x10core CPU)
- LOGM-120TB-H-G2 (2U HPE 380 gen10, 12x 10TB HDD, 3,2TB SSD, 128GB RAM, 2x14core CPU)
- LOGM-48TB-H-G2 (2U HPE 380 gen10, 12x 4TB HDD, 128GB RAM, 2x10core CPU)
- LOGM-16TB-H-G2 (1U HPE 360 gen10, 4x 4TB HDD, 64GB RAM, 1x10core CPU)

2.1.2 Version 3.0.1

The following models are supported:

- LM-36 (2U HP 380 gen8, 12x 3TB HDD, 64GB RAM, 2x6core CPU)
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- LOGM-16TB-H (1U HPE 360 gen9, 4x 4TB HDD, 64GB RAM, 1x10core CPU)

3 Release Notes

3.1.1 Version 3.1.1 - 16 Aug 2018

Added support for new generations of HP / Dell servers. All of the current LOGmanager-XL models now include a natively integrated workload accelerator (p/n: LOGmanager-A).

Added support for easy parsing of structured data according to rfc5424.

Added support for data backup.

Many minor upgrades and fixes.

3.1.2 Version 3.0.1 - 30 Apr 2018

Added support for event correlator function (Alerts with thresholds and correlation). Rewritten and actualized blocks.

In the integrated alert templates there are 3 new correlated alert samples:

- EC Deleted files on file server = detect, if user delete more than 20 files on a file server during context time period.
- EC 50 bad logins followed by successful login = detect, if user has more than 50 failed logon attempts followed by successful login. In other words, detection of successful dictionary attack.
- EC too many failed logins = detect, if user has mote than 5 failed logons.

All integrated alert samples can be modified and based on those samples, You can create new alerts with thresholds or correlation. **Important notice**: All messages passing through the alerts with context require up to 4 times more processing time. Therefore, it is not a best practice, to count in alert with context for example -> how many times each source IP address communicate through firewall. For such queries, please use dashboard functions.

LOGmanager version 3.0.1 consists of many changes and it is not possible to downgrade it to the former version without backup/restore! We recommend to backup configuration before the upgrade.

4 New Functions

4.1.1 Version 3.1.1

- Revised Database status view page. It newly displays status of all daily indexes, which are stored in LM, and allows manual opening and closing indexes for individual days.
 - Dashboards continue to automatically look after opening indexes and automatically close the index again after searching the data. Data search does not require to manually open indexes.
 - Each database search action creates new database locks. Locks are created for both system and user queries. If there is a lock on the index, the index cannot be closed. Open locks will automatically close after 4 hours.
 - The system does not allow to open and search more data, than is the capacity of available system memory.
 - Added possibility to export selected daily index to external SMB server.
- Added support for collecting and parsing logs in a structured format according to rfc5424.
- The parser test window now supports embedding of the entire syslog message without having to trim the raw_offset. The offset is now calculated automatically, and it is possible to work with a standard syslog header (programname, etc.).
- Added support for archiving data on an external SMB repository. According to settings, system
 will each day backup collected logs to a defined SMB server. Backup data is compressed using
 GZip algorithm.
- Change of the LOGmanager hostname. Old hostname was "LOGmanager", now the hostname is a serial number of the LOGmanager to simplify distinction between cluster members.

4.1.2 Version 3.0.1

- Added event correlator (Alert with Thresholds and Alert with Correlation rules).
 - Added Alert Contexts lifetime definition within range 60 to 900 seconds.
 - o Added new templates for Alerts with Thresholds and Alert with Correlations.
- Parsers and alerts newly enable the use of mathematical operations.
- Parsers and alerts newly support URL decoding (scheme, netloc, path, params, query, fragment, hostname, username).
- Added block which enables discarding of the received message.
- Added support for multicolumn lookup tables.
- Removed function of adding town name to IP addresses, high inaccuracy for individual addresses (reason: more than 90% towns were assigned with very low accuracy).
- Added support for a new generation of Dell servers (-G2).
- Increased number of parsing processes by 40%.
- Added button for deactivating of automatic translating of DNS PTR records at IP addresses. In
 case of logging large part of firewall traffic, significant slowdown of parsing processes happened
 because of DNS slowdown and waiting for responses. In extreme cases of logging IP addresses
 with non-existent/non-responding DNS servers, up to 90% slowdown of parsing processes
 happens.
- Checkpoint update of OPSEC SDK.
- Checkpoint added internal ping within the OPSEC protocol for communication status control within the OPSEC tunnel.

5 New parsers:

5.1.1 Version 3.1.1

- New parsers:
 - o FortiManager
- All integrated parsers revised and updated. Improved and optimized work with message parsing. In the next version of LM, there will be added features accelerating parsing of all the integrated parsers by 20-50%.

5.1.2 Version 3.0.1

- New parsers:
 - o FortiGate-lite
 - light version of the parser, which parses only selected fields.
 - Parser is about 30% faster than standard fortigate parser.
 - Selected fields: app, appcat, count, device_id, device_name, dst_iface, dst_ip, dst_port, duration, logdesc, msg, policy_id, protocol, rcvd_byte, rcvd_pkt, reason, sent_byte, sent_pkt, service, src_iface, src_ip, src_port, status, subtype, type, username, vd, vpn.
 - o Cisco Nexus
 - o Huawei USG
 - o Palo Alto
 - o Extreme NAC
 - Ruckuss wireless
- Updated parsers:
 - o HP Comware
 - FortiGate
 - Parser newly doesn't parses other duplicit or unnecessary fields (crscore, craction, lanin, lanout, logtime, app_id, attack_id, cat, icmpcode, icmpid, icmptype, log_id, mastersrcmac, port, reqtype, sessionid, vip, wanin, wanout, wanoptapptype, countapp, countav, countweb, method, profiletype, ref, sslexempt).
 - ISC DHCP
 - Windows DHCP
 - Windows
 - Freeradius
 - o Aruba
 - Checkpoint parser newly parses also the logs received via syslog (BSD format)
 - o Trapeze
 - o LOGmanager
 - Kaspersky parser newly parses also the logs received in CEF format
 - FortiMail
 - JuniperSRX
 - Cisco SMB
 - o Cisco IOS

6 Corrected errors

6.1.1 Version 3.1.1

- Fixed dashboard search error, that could rarely lead to system database crash. It was possible to see such condition on very busy systems during search over an excessive (30+ days) period of time.
- Fixed Linux kernel security vulnerability CVE-2018-5390.
- Removed HTTP HSTS header for Strict-transport-security. Such header was forbidding the browser to connect to a webserver with expired HTTPS certificate. If the certificate had been expired, by using HTTP HSTS header, it was not possible to change or restore the certificate.
- Fixed traceroute command in CLI.
- Fixed security vulnerability of dashboards. This bug allowed the dashboard environment to run the JS code, scammed into the received syslog message. HTML characters seen in the messages are now fully escaped.
- Fixed a parsing process error when the parser regular expression was broken. An error message about a wrongly created regex is now displayed.
- Fixed rare alert test window error. Now the test window alert condition information is always correctly displayed.
- The VMware component now correctly adds tags.

6.1.2 Version 3.0.1

- Update of the Linux kernel to the version with integrated protection against Meltdown/Spectre attacks. It is not and has never been possible to attack LOGmanager with any of these attacks.
 Detailed Security Advisory can on LOGmanager user forum.
- In certain cases, malfunction of adding tags to windows agents.
- Improved internal logging of the syslog forwarder (connection timeout, connection reset).
- Various fixes of minor issues with parsing process, added warnings of possible error states during message processing.
- Event export to external syslog did not work at highly loaded box.
- Permission adjustment for Windows agent download, now it can be downloaded by anybody with permission for Windows section.
- SQL Repaired malfunctioning connection to Microsoft SQL server instance.
- SQL Repaired error of when incorrectly connected, the SQL agent logged thousands of errors.

7 Known bugs

7.1.1 Version 3.1.1

- Problem:

Configuration screen containing Blockly sometimes does not load the blocks properly.
 Issue could appear while using Chrome web browser. Not seen in Firefox browser.

Workaround:

Reload the page.

- Problem:

Configuration screen containing Blockly sometimes does not show translated tag names
 (IDs of the tags are displayed instead of tag names)

- Workaround:

Switch to XML view and back, tags will be translated correctly.

Problem:

o In rare conditions, "failure of the cluster master" condition can overload the cluster slave resources, if left unattended for longer period of time.

Workaround:

- As soon as failure of the cluster master is seen (admin should be notified via email),
 please remove slave from cluster.
- Restoring the cluster: Once the broken device is back online, please choose the cluster
 master properly. As the master should be selected the system with more daily indexes in
 its database. (if a cluster member is being replaced with "empty database" system, such
 system should be always considered as a slave)

- Problem:

 When querying dashboards for longer period, recent 7 days are always displayed quickly, then the system visibly slows down.

Workaround:

Patience. System works according to its design. Due to heavy utilization of system resources, only the most recent 8 days indexes are always kept open. Older daily indexes have to open first, search and close again, to avoid resource exhaustion. Additional optimization is a short-term roadmap item.

- Problem:

 After upgrade to LOGmanager software 3.1.1 - in menu Overview / Database status, older daily indexes show zero size.

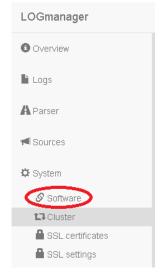
- Workaround:

 LOGmanager, after the upgrade, does not know exact size of the daily indexes, which had not been open yet. Open the index manually, or search through given date in dashboard and the correct size of the index will appear.

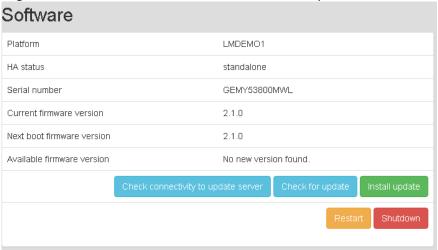
8 Update process

WARNING: Release 3.1.1 DOES NOT SUPPORT gradual cluster upgrades. You need to upgrade the cluster by installing a new SW on both boxes and restarting both cluster nodes at the same time.

For new version installation in WEB interface click on Settings > Software



Page with information about installed software will open



Upgrade process:

- Click the button "Check for update".
- Available Version **3.1.1** will be displayed.
- Click the button "Install update".
- Once the page is reloaded, in **next boot firmware** will be displayed **3.1.1**.
- In the last step, just click **Restart** and system will restart to the new Version.

8.1.1 After server restart

After restarting the server, it is necessary to delete the browser cache for the proper functioning of the web interface!

After each update, the database integrity check is performed. After the server restart, the status of the database is always in the red state and the check is performing, this is normal status after the upgrade - after the check is complete, the status returns to normal state.

No new data is stored in dB for the duration of the integrity check! However, the received events remain in the internal cache and are inserted into the dB as soon as the check is complete. The scan may take up to 30 minutes depending on the size and number of stored events.

End of document.