

Server Changelog

CB v5.0.0.150416.1350 April 16, 2015

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Future Carbon Black Enterprise Server releases (April 15 2015)

• For release 5.0.0 Patch 1 and later, please refer to the Release Notes Document for that version

Carbon Black Enterprise Server 5.0.0 (April 8 2015)

Highlights

- E-3410 CB Live Response
 - initial rollout of CB live response functionality to allow real time investigation of endpoints
- E-3269 Tamper detection
 - initial rollout of endpoint CB tamper detection events and alerts
- · E-3248 update Watchlist and Feed functionality
 - add new Dashboard and alert triage pages, update to data sharing selections
- E-xxxx inclusion of Linux and OSX sensors

Changelog

- ENT-4276 Added per-doc debug logging to solr atomic update handler
 - added per-document logging in solr storage for better visibility to help troubleshoot load/performance related issues
- ENT-4234 Improvements to update handler for cbmodules
 - Improve Solr performance by adding more processing to binary document pipeline to detect instances where document updates can be avoided.
- · ENT-4165 Remove exclusive sensor builds table lock from websocket connections
 - Under some conditions, exclusive lock on sensor_builds table would create a situation where other DB operations (such as sensor check-ins, event log uploads and UI navigation) would get blocked.
 While those conditions are rare, the code was improved to not require lock to reduce the impact of those conditions
- E-4219 Important data not generated in debug sensor logging
 - Quantative information is now included in debug logging for sensor events
- E-4213 Feed ingress scan producing large amount of low-score feed hits
 - Feed ingress scan now has per feed score threshold setting to reduce the amount of low score hits/noise to help overall system performance
- E-4212 Revert feed ingress checking
 - Ingress feed matching of MD5s on binary documents was delivered in 4.2.x. In 5.0.0, the feed ingress scanner was changed to match on MD5s in process start events in addition to binary documents. This change increased the amount of processing that was needed to handle the wider range of event types. This change reverts back to the previous MD5 match on Binary documents only present in 4.2. If the site is dependant on reviewing MD5 feed hits across binary and process events then this value must exist in cb.conf 'EnabledProcessMD5FeedHits=true'
- E-4209, E-4208 Reduce processing path for alerts
 - Significant reduction in CPU consumption by email sender action when handling feed/watchlist events that DO NOT have an e-mail recipient
- · E-4207 Regmod searches not working properly
 - fix in way regmods are tokenized so that regmod queries will now work properly

E-4185 - Enhanced sensor checkin logic

- Made parameters in dynamic check-in delay calculation configurable via cb.conf

E-4095 - Sending of emails not occurring after configuration update

Email notifications from watchlist will now recover from error without cb-enterprise restart

E-3898

Fixed feed synchronization issue by including the default value during startup.

E-3471

- Included other IOC hit attributes (in addition to ioc value and ioc type) as a JSON field in feed events.

• E-3417

Modifying DatastoreRootDir in cb.conf does not update solr.xml during startup

E-3543

 Investigation Time Sorting is not correctly sorting - When investigations are sorted by time, they are "string ordered" based on day of week instead of day of the month and time.

• E-3563

 For customers installing on RedHat, cb-enterprise install requires wxBase package which isn't part of CarbonBlack yum repo.

E-3635

- "cbcluster add-node" command may fail on start with cb-rabbitmq timeout message - The issue is related to cbcluster add-node command attempting to start cb-rabbitmq cluster on the head node before it does anything else. According to RabbitMQ Clustering guide when the entire cluster is brought down, the last node to be shutdown must be the first node to come back up.

· E-3693

- Improved internal API calls to collect server statistics.

• E-3749

- Fixed Nginx startup issue after CentOS/RedHat SELinux policy updates.

• E-3761

- Fixed internal Datastore JVM memory pressure.

• E-3733

 Sensor throttle stops all eventlog ingest due to an error in accounting of total number of bytes committed to SOLR index.

• E-3832

- Fixed an issue with combined search queries that include 'alliance score'.

• CBUI-941

- Links from investigations pane for analyze returns 404

• CBUI-942

- On process analyze Reg Action and Sig facet fields do not jump into the right position.

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Carbon Black Enterprise Server 4.2.5 (March 8 2015)

Changelog

- E-4110 Backport E-4109 fix to 4.2.5 "cbsyslog fails ungracefully when there are no matches"
 - fix for cbsyslog producing a traceback when there are no query matches
- E-4108 Backport E-4107 fix to 4.2.5 "cbsyslog does not submit the query string correctly"
 - fix for cbsyslog queries that were not getting submitted properly, producing invalid results.
- E-4156 cbsyslog tool doesn't return fields identical to watchlist searcher for syslog notifications
 - fix for cbsyslog tool not firing syslog notifications with fields matching the normal system operation.
- E-4063 Binaries are deleted if hash reporting enabled, but uploads disabled
 - fix for unable to download binaries from the UI when binary uploads to alliance is disabled.
- E-4095 E-mail notifications from watchlist will not recover from error
 - fix for failure to send e-mail notification throwing an exception and required system restart.

Carbon Black Enterprise Server 4.2.4 (January 23 2015)

Changelog

- E-3970 cbcheck for iptables "doesn't work"
 - fix an issue with cbcheck in regards to iptable rules in a clustered environment
- · E-3901 Dashboard shows red alliance comms error after 1 week of good health
 - fix error with sql purge when alliance comms status has not changed for one week
- E-3893 New cbrotate command line tool to help with stdout rotation when doing long-term data collection
 - added cb log rotate utility to help when standard output is logged to a file
- E-3889 FROM TT 42026: Exporting events to CSV fails
 - fix an error with process analysis event table CSV export
- E-3883 Datastore needs additional debugging around SQL calls to help us troubleshoot ingress perf
 - increased verbosity for certain cbfs storage model sql store calls
- E-3880 Our use of 'cache' throttle pressure needs to be reviewed as it may cause low ingress rate cap even when server is not being loaded
 - Introduced two new cb.conf settings to customize sensor throttle pressure Low and High watermarks.
 Please talk with Bit9/Carbon Black support
- E-3838 We need to add LVM information dump to cbdiag
 - added pvdisplay, lvdisplay and vgdisplay to cbdiag collection

Carbon Black Enterprise Server 4.2.3 (November 20 2014)

Highlights

- ENT-3789 Remove use of unique_id and segment_id in grouped and sorted queries so that they
 do not go into the field cache
 - This update reduces the memory footprint and requirements of solr in order to improve performance
- ENT-3761 Make datastore event ingress queue configurable via cb.conf
 - Configurable options added to cb.conf to limit datastore event ingress queue to help tune server perf
 - DatastoreEventWriteQLen=1024 changed from 8192 docs
 - DatastoreStorageWriteQLen=30 unchanged
- E-3738 Increase watchlist_searcher cron job to 10 minutes
 - Updated cron.d/cb watchlist searcher to run every 10 minutes
- E-3737 Reduce SOLR's internal cache usage
 - Change SOLR config to reduce Document and Query/Filter Cache to help improve server perf
- E-3736 Update cbsolr to process migrate quicker
 - cbsolr updated to support multithreaded operation
- E-3733 Increase the Redis stats connection timeout in order to prevent 'all-stop'
 - Increased default Redis stats connection timeout from 2 seconds to 20
- E-3703 Datastore HTTP solr client thread count not configurable
 - Enable the configuration of datastore HTTP solr client threads via cb.conf "DatastoreEventCoreClient-Threads="
 - Reduce default threads from 24 to 1/2 number of CPU cores
- E-3702 Difficult to troubleshoot Solr garbage collection
 - Enabled GC stats in Solr

Changelog

• E-3784 - Sensor sync causes invalid cbstats DatastoreCache.num.bytes in cache metric

Fixed double decrement of DatastoreCache.num.bytes_in_cache byte count

E-3769 - Multiple minions writing to moduleinfo_events end up deadlocking each other

Update how minions write transactions to postgres

 E-3768 - cb-datastore creates high number of SQL connections and doesn't recover when limit is reached

Fix cb-datastore sql connection gc

• E-3759 - cb-enterprise service may fail to start a cluster during race condition

Fix to remove race situation where minion fails to populate costats metric

E-3749 - SELINUX upgrade had default rules that disable nginx

Fix for cb-nginx so that it has the correct selinux permissions

E-3729 - FeedTagger task does not tag VT hits

Fix issue with FeedTagger and VT hits

• E-3685 - POODLE: SSLv3 vulnerability (CVE-2014-3566)

Update nginx configuration to not allow fallback to SSLv3 protocol for GUI and sensors

• E-3594 - Bugfix Alliance stats fail on cluster with multiple minions

Fix of cluster failing to upload Alliance stats when master has 0 shards

Carbon Black Enterprise Server 4.2.2 (October 2 2014)

Highlights

- · E-3633 Feed report title is now available in feed syslog notifications
 - Feed report title can be specified in syslog template with title='{{doc['report_title']}}'
- E-3595 Make syslog notifications and general CB log message length configurable
 - CB notifications are controlled by cb.conf entry 'MaxSyslogSenderMessageSize = xxxx' (default value is 1024)
 - CB logs are controlled by cb.conf entry 'MaxCbLoggingMessageSize = xxxx' (default value is 2048)

Changelog

• E-3656 - update chevent limits in cb.conf on new installs

Update defaults for collection of chevents to 30 days or 60 million events on NEW installs. Upgrades keep original values.

• E-3654 - Tokenization changes in 4.2.1 broke watchlist path queries

Change tokenization to index all path prefixes so that wildcard queries are not needed for unknown path queries

E-3637 - Linux installer package downloaded from server didn't have execute permissions

Fix so that Linux installer package installer script has execute permissions

· E-3632 - Negation and wildcard queries do not work together

Fix so that negation of wildcard queries return correct results because we have full path tokenization

• E-3561 - Alliance stats uploads fail if an HTTP error is returned from solr

Fix so that a failure in HTTP request of solr doesn't stop that upload of stats to the Alliance

· CBUI-832 - Fix typo in mouseover text in process analyze facets

Carbon Black Enterprise Server 4.2.1 (September 2 2014)

Highlights

- E-3525 Add link to OSX and Linux sensor install packages if available on the server
 - Allows downloading of OSX and Linux sensor packages via the cb web gui
- E-3471 Addition of IOC hit attributes to feed event syslog
 - Feed hit json output enhanced to include IOC attributes, ioc_type, ioc_value
 - Netconn directionality
- E-3453 Process host OS type can now be queried
 - Allows searching of process by OS type
- E-3435 Process PID added to process documents
 - Process and Parent PID fields added to process doc but not indexed
- E-3114 API updated to expose osx/linux sensor download
 - Prep work for osx/linux sensor package downloads
- E-3037 Postgres tables added to cbdiag collection
 - Added collection of select sanitized postgres tables

Changelog

• E-3540 - Storage Statistics not showing up in specific clustered configuration

Fix for Dashboard storage statistics not showing up in shardless master configuration.

E-3467 - Analyze page does not show feed hits when report names have spaces

Fix to allow for proper query of feed reports with spaces in the report ID

E-3463 - 4.2 index improvements broke various queries for full paths

Fix to bring back full search ability without putting full tokenization back in

E-3418 - "Pending" process info now called "unknown"

Instead of "pending" for incomplete process data the word "unknown" will be used

E-3417 - Tomcat xml file not getting updated during Datastore move

Fix to update solr.xml file with datastore location from cb.conf

• E-3416 - Time "Between" filter not handling 'years' properly

Implemented check for 'years' when determine before/after date ranges

E-3380, 3468 - API watchlist and feed hits not consistent with other API citizens

Fields returned with feed and watchlist hits are now more consistent

E-3355 - VT scores are missing after upgrade to 4.2

VT tags are now reapplied during cbupgrade

• E-3354 - 'ago' on second line in process analyze page

Process, hostname, user and time of process on one line now Implemented check for 'years' when determine before/after date ranges

• E-3345 - Binary search by publisher resulted in query that had missing quotes

Fix to include quotes around publisher search terms

• E-3272 - API allows more simultaneous connections than DB pool size allows

Workarund until CB v5.0 fix is implemented is to lower "CoreServicesWorkerConnections=5" in /etc/cb/cb.conf

• E-3235 - Sensor report not using sensor_timestamp for comm failures

Fix to use sensor timestamp value in sensor report

• E-2708 - Removal of Sensor page multi-facet filtering not working correctly

Fix for multi-facet filtering on sensor page

E-1342 - Binary files not getting cleaned up

Fix to cleanup binaries from Enterprise server after upload to Alliance

- E-1085 cb-multihome.conf example out of date
- 4.2 changes (websockets) was not updated in multihome example file

Carbon Black Enterprise Server 4.2.0 (June 1 2014)

Highlights

- Bit9 Platform Server Integration
 - Standardize Process ID across Bit9 and CarbonBlack
 - Carbonblack watchlist hits published to Bit9 Platform Server
- New Pub/Sub Architecture makes the following available
 - Watchlist hits
 - Feed hits
 - Binary store events
- · New Alerts using Websockets
 - Alerts are available via Pub/Sub architecture and Websockets
 - Watchlist and Feed hits will be presented at the upper right of the UI,
 most recent events at the bottom

· New Sensor Throttling

- Sensor throttling based on internal performance statistics

Improved VDI support

- Updated registration logic for VDI machines to allow for non-duplication of sensor machines
- Updated group registration logic
- Enhanced API to support VDI status

Enhanced Server Performance, monitoring and metric collection

- New database schema implimented in order to improve query times
- Improved sensor check-in efficiency
- Ability to configure max solr file system usage

Alliance Feeds Improvements

- Process and Binary feed search from Alliance view
- Quick add watchlist from feed search
- Add process search via Alliance feeds view
- Added Bit9 SRS (Trust) and TIS (Threat) feeds
- Added ThreatConnect feed
- Improved feed validation logic and error reporting

Improved Alliance Statistics Collection

- Fixed upload of CB server diagnostics in a clustered environment

Sensor Improvements

- Requires 4.2.0 or higher sensor Ability to track filewrites at a high level in order to track filewrite requests
- Reduced CPU and memory usage in high volume environments
- Enhanced diagnostics logging of host machine statistics, module processing and
- Requires 4.2.1 or higher sensor
- Reduced Disk IO to decrease remote disk usage in VDI environments
- Increased robustness around unexpected data from the OS

Changelog

• E-3240 - 3rd Party bugfix

Updated openssI library requirement for server install to address CVE-2014-0224

Carbon Black Enterprise Server 4.1.6 (May 02 2014)

• E-3118 - Bugfix

Fix for issue while exploring process tree when server is in a sharded configuration.

• E-3055 - Bugfix

Fix for process names not being rendered properly with new Chrome browser version.

Carbon Black Enterprise Server 4.1.5 (April 10 2014)

• E-3033, E-3024 - Improvement

Server and Web Console - Delivery and documentation of feature to add watchlist during cbinit

• E-3031, E-3030, E-3029, E-3023 - Improvement

Server and Web Console - Ability to create a watchlist as read-only introduced.

• E-3026 - Improvement

Documentation - clean up server_ssl doc

• E-3025 - Improvement

Documentation - Clean up cb.conf documentation per feedback from field

E-3022 - 3rd party patch

Server Backend - Address openssl vulnerability (CVE-2014-0160) in alliance client

· E-3020 - 3rd party patch

Server Backend - Address openssl vulverability (CVE-2014-0160) in server

• E-3017 - Bugfix

Server Backend - Enabling sensor eventlog archiving causes ingress of event logs to fail.

• E-2997 - Bugfix

Server Backend - Sensor upgrade throttle task may fail on startup due to a race condition in redis stats

Carbon Black Enterprise Server 4.1.4

• E-2978 - Bugfix

Server Backend - Fix for alliance statistics upload in clustered environment

• E-2976 - Documentation

Documentation - binary template example correction

• E-2974, 2962 - Improvement

Server Backend - Enable adding feed via API

• E-2967, 2966 - Improvement

Server Backend - API example and documentation updates

• E-2962 - Improvement

Server Backend - Deliver sensor package download via API

• E-2961 - Improvement

Server Backend - default API to use auth token

• E-2950 - Improvement

Installation - Deliver specific OpenSSL version with CB

• E-2949 - Improvement

Documentation - fix wrong yum baseurl link

Carbon Black Enterprise Server 4.1.3

• E-2883 - Improvement

Server Backend - hardening of Alliance client performance statistics

• E-2879, 2801 - Improvement

Server Backend - added hardware diagnostic toolkit to obdiag functionality

• E-2868 - Bugfix

Web Console - fix for process preview md5 modload link

• E-2860 - Improvement

Web Console - update spinner at login page

• E-2858 - Improvement

Server Backend - cbsensorinstallergen utility default settings changed to reflect current cb.conf

• E-2857, 2856, 2855, 2854, 2853, 2852 - Improvement

Server Backend - add endpoint hostname and group to binary documents and watchlist syslog/emails

• E-2851 - Bugfix

Web Console - Splash page text incorrectly referred to sensorsettings.bin

• E-2846 - Bugfix

Server Backend - exception sending email via non-CB alliance SMTP server was fixed

• E-2845 - Bugfix

Server backend - Fix for Analyze page childproc row dropdown

• E-2841 - Bugfix

Server Backend - changing password for newly created user fixed

• E-2837 - Bugfix

Server Backend - fix for infinite sync status of sensor when it was instructed to perform a sync

• E-2749 - Improvement

Licensing - update license text

Carbon Black Enterprise Server 4.1.2

• E-2810 - Improvement

Server Backend - include sensor registration "callback" script for sensor id mapping to computer name

• E-2809 - Improvement

Server Backend - Reduce overall suggestor dictionary size

• E-2793 - Improvement

Server Backend - add feedback text during solr startup to indicate long-running suggestor buildup

• E-2773 - Bugfix

Server Backend - fix to a handle corrupted sensor event logs

• E-2763 - Improvement

Server Backend - Operational VDI support

• E-2756 - Improvement

Sensor - provide sensor upgrade support for osx sensor

• E-2755 - Improvement

Sensor - Add OSX-specific sensor checkin handler logic

Carbon Black Enterprise Server 4.1.1

• E-2799 - Improvement

Documentation - Updated syslog_template doc to reflect correct key values.

E-2796 - Improvement

Web Console - Process Analyze page now highlights matching search terms when linked from the watchlists page. The highlighting allows for easy recognition and filtering on matching terms.

• E-2795 - Bugfix

Web Console - Floating investigation pane is now hidden on logoff.

• E-2781 - New Feature

Web Console - Feed synchronization (both full and incrementatal) can now be triggered in the web console via the feeds page.

• E-2776, E-2777 - Improvement

Web Console - Process names in watchlist page (for process watchlists) now link to the analyze page rather than the search results page. This is consistent with the process search page behavior.

• E-2771 - Bugfix

Server Backend - Certain classes of internal cb-datastore diagnostic data is now pushed to the minion redis instance. This only applies to cluster configurations.

• E-2766 - Bugfix

Web Console - Binary search page 'autocomplete' functionality now works when used with 'terms' component functionality.

• E-2757 - Improvement

Web Console - When changing active investigation in floating investigation pane, navigating to the investigation pane now shows the currently selected investigation by default.

E-2751 - Improvement

Web Console - When tagging events in the analyze page with the floating investigation pane open, the tagged event lists in the floating investigation pane is now updated dynamically.

C-668 - Bugfix

Web Console - Event tagging on the analyze page fails if the select process was changed using the process tree graph control.

· C-667 - Bugfix

Web Console - Analyze page event expansion for netconns now avoids 'infinite spinner' in certain circumstances. In particular, if the network connection event included exactly one of an IPv4 address and a DNS name, network connection data was not displayed and the 'spinner' icon was displayed.

· C-665 - Improvement

Web Console - When an investigation is removed on the investigations pane, the floating investigation pane is now updated to reflect the deleted investigation.

• C-662 - Bugfix

Web Console - 'Actions' dropdown on host detail page now correctly performs an action after a previous action had been cancelled.

Carbon Black Enterprise Server 4.1.0

Highlights

Process Analyze Page Improvements

- Timeline
- Inclusion of digital signature publisher and status for all module loads
- Inclusion of file types for certain filemod events
- Inclusion of Alliance feed matches
- Inclusion of 'highlighting' based on search term

· Investigations pane moved to be a 'top-level' UI element

- Provides at-a-glance access to current investigation

· "True" network endpoint detection

- Add support for logging the destination of HTTP and FTP requests made via web proxies
- Requires 4.1 sensor

Server Security Hardening

- Includes improved CSRF defense
- Includes improved XSS defense

· Watchlist Notification E-Mail Improvements

- Process Watchlists now include 'highlighting' to help identify why a process matched a watchlist
- Watchlist Notification E-Mails now include HTML support for an easer-to-read experience

Data File Tracking by MD5

- Support for tracking the MD5s of certain classes of data files
- Collection of data file tracking is configurable on a per-group basis
- Requires 4.1 sensor

Improved Highlighting Support

- Search results include improved 'highlighting' on matching terms, including DNS names

· Improved Sensor Management when Sensor Ids are Reused

- Better support for automatic sensor re-registration when a sensor ID is re-used.
- In particular, supports scenarios where an already-registered sensor installation is cloned

High-Performance, Low-Latency Feed Tagging

- Process and Binary documents are now tagged as event data arrives from the sensor
- Higher-performance and much lower latency

• Improved Frequency Calculation Performance

- Module Load (MD5), FileMod, and RegMod frequency improved, sometimes by an order-of-magnitude or more
- Process username (security context) support
- Username (including domain) included as a searchable and retrievable field in all process documents
- Collection of username is configurable on a per-group basis
- Requires 4.1 sensor

Improved Support for Special Characters in Search

- In particular, support for quotes ("") and backslashes () improved

Improved Support for Sensor Installation Scenarios

- MSI can be used to upgrade or reinstall
- Avoid two entries in the endpoint Add/Remove Programs database when installed via MSI
- Update Add/Remove Programs database when sensor is upgraded via Enterprise Server
- Requires 4.1 sensor
- Sensor uninstallation removes all registry entries

Add Support for EICAR test file

- To be used in troubleshooting and end-to-end verification testing
- Requires 4.1 sensor

Adds Support for Server-Sensor Clock Delta Tracking

- Clock Delta between CB server and sensor is reported in the Host Detail Page of the UI

Sensor Compresses Eventlogs for Transmission to Server

- Reduces bandwidth requirements 50-90 percent
- Requires 4.1 sensor

· Add Support for 'Rolling' Sensor Upgrades

- Server can be configured to 'trickle' out sensor upgrades
- Allows time to abort an in-progress deployment of upgraded sensor version as needed

• Finalized Support for FireFox, Safari, and IE 10+

- IE10+ compatibility mode NOT supported

Numerous Host Detail Page Improvements

- Improved Timestamp Accuracy
- Improved Flagging of 'Warning' Behavior (high resource usage, etc.)
- Decreased verbosity of component status logging

· Add support for 'Bulk' Search in the UI

- Supports both binary and process searches
- Allows pasting multiple indicators (search terms)
- For high volumes of indicators, a feed is recommended for performance reasons

Improve legibility of 'Add Criteria' Selections in Search

- Significant expansion of space dedicated to choosing criteria to search on

Improved Feed Retrieval Support

- Support via Proxy
- Per-Feed configuration of server SSL certificate verification
- Support for using SSL client certificates for authentication

Improved Autocomplete Performance

leveraged database 'suggester'

Increased Configurablity of Search Results

- Number of process and/or binary search results displayed per-page is configurable
- Default sort order of process and/or binary search results is configurable

Sensor Checkin Performance Improvements

- improve use of redis caching for sensor checkin

API Expansion

- Watchlists Management is now part of documented API
- Feed Management is now part of documented API
- License Management is now part of documented API
- Binary search now includes POST support for larger queries

Binary Detail Page Performance Improvements

- API improvements used by Binary Detail page

· Additional fields added to query parser

- Sensor Id
- Host Type (Workstation, Server, Domain Controller)
- Binary Architecture (32bit/x86, 64bit/x64)
- Binary Type (Standalone Executable, Library (DLL, SYS))
- Server Added Timestamp

Watchlist Page Performance Improvements

- API improvements used by Watchlist page

· Enhanced Backend Toolset

- cbpasswd now allows for adding a CB user
- cbdiag now includes support for web proxies, reports sensor/server clock deltas and has a hardcoded uploaded file size limit of 1Gig.
- cbstats now includes detailed performance monitoring and instrumentation
- cbcheck tool used to help with troubleshooting log files and iptables rules
- cblicense tool used to retrieve and update CB license file data
- cbssl now has new command 'sso' to create SAML2.0 Service Provider metadata
- cbsyslog tool used to view current and test new CB syslog and watchlist output templates (see syslog_templates and syslog_cef pdf files)

Add Support for SAML Third-Party Authentication

- added new sso/ directory under /etc/cb configuration

Add Support for Automating Analysis of Network Edge Device Alerts

- CheckPoint, Fidelis, FireEye, Palo Alto Networks
- Requires a separate RPM; contact support for details

Carbon Black Enterprise Server 4.0.3

Changelog

• E-2533 - New Feature

The syslog output on watchlist match is now controllable, both in terms of format and order of fields. For more information, see the separate usage guide for custom watchlist formatting.

• E-2536 - Bugfix

The UI license feature allows for the application of a new Carbon Black license. This feature has been improved to be more accepting of various formats of data.

· E-2539 - Improvement

The "Carbon Black Alliance Status" pane in the Server Dashboard now provides clearer output when the Alliance Client has never attempted to reach the Alliance Server, or when all errors in reaching the Alliance Server were at the TCP layer or below.

• E-2535 - Improvement

Additional debug logging has been put in place to assist with identifying the source of malformed binary file data from sensors.

• E-2538 - Improvement

Update copyright date from 2013 to 2014

Carbon Black Enterprise Server 4.0.2

• E-2355 - Improvement

The logging for the feed_searcher cron job now includes additional verbosity to troubleshoot feed issues.

• E-2353 - Bugfix

The warning log output in the feed searcher cron job is now correct for a feed report with no indicators (IOCs)

• E-2352 - Improvement

The feed_searcher cron job may be run with the "-terms" switch. In certain cases, particularly during feed development, this may improve performance. The "-terms" switch results in querying the SOLR terms component for all terms (such as IPs, domain names, etc.). This query may take a long time to complete. As a result, the timeout on the query was increased to allow for usage of "-terms" on bigger SOLR indexes.

• E-2348 - Improvement

Feeds automatically added to the Enterprise Server via the Alliance Server are now removed when they are removed from the Alliance Server.

• E-2347 - Bugfix

Alliance Server-provided feeds are now added in a case-insensitive manner.

• E-2319 - Bugfix

The web UI link to the VirusTotal web page was incorrect for binaries that had a '0' VirusTotal score. This was because VirusTotal changed the format of their link. The 4.0.2 Enterprise Server adjust the format of the link to match the new VirusTotal link format.

• E-2315 - Improvement

The feed_searcher cron job now allows execution against a particular feed, specified on the feed_searcher command line. This can assist feed development.

• E-2313 - Bugfix

Postgres logs are now rotated properly.

• E-2312 - Bugfix

Datetime and timestamps are now correct on the host detail page in the web UI.

• E-2311 - Improvement

Alliance Server feeds can now be added, via the web UI, by URL rather than manually. This is useful when doing feed development.

• E-2310 - Bugfix

The error log output from the feed_searcher cron job is now correct if the HTTP response code from the feed server is not 200.

• E-2307, E-2306 - Bugfix

Certain classes of potential cross-site scripting (XSS) vulnerabilities in the web UI were identified and addressed.

Carbon Black Enterprise Server 4.0.1

Changelog

• E-2254 - Bugfix

The Alliance status on the server dashboard failed to properly display in certain cases. In particular, when the Alliance client was not properly connected with the Alliance Server, date parsing was not properly performed.

Enterprise Server 4.0.1 addresses this issue by properly parsing and displaying the date in all situations.

• E-2255 - Bugfix

The process search results page includes a 'magnifying glass' icon for each search result to allow for a 'process preview' of the search result. Clicking on this icon failed for certain classes of data. In particular, data generated by 3.0.0 servers, as well as some pre-release 3.1.0 servers, was not preview-able. An error in the JavaScript console occurred when clicking on the process preview magnifying glass icon.

Enterprise Server 4.0.1 addresses this issue by properly handling the data. All search results, including those backed by data gathered on 3.0.0 servers, are now previewable.

• E-2264 - Bugfix

Enterprise Server 4.0.1 now properly calculates an internal identifier for communications with Alliance Server properly in both clustered and non-clustered situations. There is no customer-facing impact from this change.

E-2267 - Bugfix

Enterprise Server 4.0.1 now restricts the changing of the username via the 'Users & Teams' UI page. The first name, last name, email, password, and api token are still changeable. The reason is due to how Enterprise Server uses a secure mechanism of digest authentication - changing the username also requires knowing the plaintext password. In the interests of security, the plaintext password is never stored on the Enterprise Server.

• E-2272 - Bugfix

Enterprise Server 4.0.1 now ensures that the URLs used by the sensor to push data to the Enterprise Server never include repeated / characters. The only ramification of this bug was a repeated / in the nginx access logs. There was no direct customer-facing issue as a result of the bug. Note that this is a server change only; no sensor modifications have been made.

• E-2274 - Bugfix

Enterprise Server 4.0.1 now allows authentication via the Carbon Black API token for the /api/v1/binary//summary REST endpoint. This bug did not affect the server UI, but it did interfere with the ability to consume this endpoint via CB API scripts.

• E-2275 - Bugfix

Enterprise Server 4.0.1 now allows binary downloads via both the CB API and the UI for binaries collected prior to 4.0.0 installation. Due to the way clustering was implemented, binaries collected on server versions 3.2.2 and below could not be found by the 4.0.0 server.

• E-2279 - Bugfix

Enterprise Server 4.0.1 improves the 'module sync' cron job. This job runs once daily to synchronize the list of known binary files between the Postgres SQL database and the filesystem.

E-2280 - Improvement

Enterprise Server 4.0.1 adds the end-user-controllable selection of new 'fuzzy' faceting. Fuzzy faceting uses statistical sampling to more quickly provide facet calculations. The use of this option is controllable via two new cb.conf options. See cb.conf documentation for details.

• E-2281 - Improvement

Enterprise Server 4.0.1 increases an internal timeout used to query SOLR statistics when reporting performance statistics to the Alliance Server. This improvement has no customer-facing impact.

• E-2282 - Improvement

Enterprise Server 4.0.1 adds two new fields to the 'sensor vitals' section of the host detail page in the UI. These fields provide the size of gueued eventlogs and binary files on a particular sensor, as of the last sensor checkin.

• E-2283 - Bugfix

Enterprise Server 4.0.1 now supports API token authentication access to the binary search REST endpoint.

• E-2285 - Bugfix

Enterprise Server 4.0.1 now successfully completes sensor checkins even when the detailed sensor diagnostic data cannot be properly processed.

E-2288 - Bugfix

The reset search terms button on the process and binary search pages now works properly when facets are disabled.

• E-2293 - Bugfix

The reset search terms button on the process search page works properly when cb.conf has been modified to timebox process search results.

• E-2294 - Bugfix

The reset search terms button on the binary search page works properly when cb.conf has been modified to timebox process search results.

Carbon Black Enterprise Server 4.0.0

Changelog

• E-2131 - Bugfix

Deleting users via the web UI sometimes appeared to fail, as an error 'toaster' UI indicator appeared in the top-right corner of the UI. In most cases, the deletion had actually succeeded, with the error appearing erroneously.

Enterprise Server 4.0.0 addresses this issue by more robustly deleting the user and properly reporting the result to the UI.

• E-2129 - New Feature

The Enterprise Server API is now authenticated with either a username and password, as with Enterprise Server 3.x, or with a new API token or key. The key is visible from the 'User Profile' page in the web UI.

E-2117 - Improvement

The Enterprise Server REST API included trailing slashes inconsistently, from endpoint to endpoint, in Enterprise Server 3.x. In 4.0, trailing slashes are not used and that is consistent across the API.

• E-2113 - Improvement

Enterprise Server 4.0 allows an optional cb.conf parameter, CoreServicesProcessSearchIntervalSeconds. When set, this parameter sets a default search criteria to all process searches. This can reduce the number of results for searches to only 'recent' results, and can improve performance on large data sets. The default value can be overridden in the UI at any time.

• E-2086 - Improvement

Enterprise Server 4.0 adds a new process search query syntax parameter, last_server_update. This allows searching processes based on the last time the process document was updated on the server. More information is available in the query parser documentation.

• E-2075 - Improvement

The 'computers' page in the web UI has been updated to avoid auto-refreshing every sixty seconds. This makes it easier to use the page, as the contents do not change or scroll automatically. An update can be accomplished by refreshing the page.

• E-2053 - Improvement

The process search time for process start time has been updated to provide more consistent results when searching on time ranges.

• E-2042 - Improvement

The 3.x Enterprise Server sometimes functioned sporadically if localhost was included in /etc/hosts with an ipv6 address. The 4.0 Enterprise Server addresses this issue by using 127.0.0.1, and not localhost, thereby avoiding any dependency on /etc/hosts.

E-2031 - Improvement

The process search REST API endpoint (/api/v1/process) has been updated to allow the HTTP verb POST, in addition to GET. This allows providing significantly longer query strings.

• E-2021 - Bugfix

Enterprise Server 3.x could be configured, via Alliance Community Participation settings, in such a way as binaries were uploaded to the Carbon Black Alliance server, but could not be downloaded via the "binary detail" UI page. Enterprise Server 4.0 addresses this issue and always allows downloading if the file had been uploaded previously.

• E-2015 - Bugfix

The host detail page previously displayed the wrong month, although the right day of the month and the right time, for all sensor diagnostic data. Enterprise Server 4.0 displays the correct date on the host detail page.

E-2012 - Improvement

The Alliance Client now supports NTLM authentication. Furthermore, the proxy password can be optionally encrypted in cb.conf for further protection.

• E-1942 - Improvement

Enteprise Server 4.0 now includes the source endpoint hostname, the Carbon Black server name, and a directly link to the analyze page, in watchlist notification e-mails.

• E-1947 - Improvement

The server dashboard now includes a summary of outstanding data, in terms of size of event logs and binary files, that are outstanding on sensors. This provides a good global indication of how 'current' the server is relative to incoming sensor data.

· E-1931 - New Feature

The Carbon Black Enterprise Server can now subscribe to threat intelligence feeds, consisting of IOCs such as MD5s, domain names, and IPs. These feeds can be provided by the Carbon Black Alliance Server, an on-premise device, or via custom lists of indicators.

In 4.0, the index is automatically searched for feed data and, when matches are found, documents are tagged to reflect.

• E-1910 - New Feature

The Enterprise Server API can now be used to find sensors based on the host endpoint IP address.

• E-1902, E-1894 - New Feature

It is now possible to do a process search based on the parent process MD5 using 'parent_md5'. See the query parser documentation for additional information.

• E-1900 - Improvement

The host list page 'export to CSV' capability now exports the all of the same data visible in the UI.

• E-1893 - Improvement

Postgres connection logging is now disabled to reduce the verbosity of debug logging. It can be enabled via config file as needed. For existing deployments, this setting must be changed manually.

• E-1892 - Improvement

Server performance and consistency is now improved when handling high volumes of concurrent sensor checkins.

• E-1880 - Improvement

The cbdiag tool now produces better and more accurate results with respect to sensor report data.

• E-1849 - Improvement

The computers page, which lists installed sensors, now includes a last-known power state. This includes states such as "powering off", "rebooting", and "suspending". This can provide insight as to why a particular sensor is marked as offline.

• E-1827 - Improvement

A binary preview dialog has been added to the web UI, providing a quick at-a-glance summary of a binary without requiring navigation away from the current page.

• E-1820 - Bugfix

The "frequency data" pane sometimes showed the wrong data for child processes in event pane. This was obvious when it happened, as the name in the frequency pane did not match the name in the event table. In 4.0, the frequency pane now consistently matches the expected value.

• E-1813 - Improvement

First and last name for Enterprise Server user accounts can now include certain non-ASCII characters, particularly the umlaut and other diacritics used with the Latin alphabet.

• E-1770 - Improvement

Maximum Sensor Checkin Interval is now exposed as a cb.conf configuration option.

• E-1735 - Improvement

The Alliance Client can now be configured to avoid use of a SSL client certificate. This option requires coordination with Carbon Black support. It is intended to be used in environments where perimeter network devices do not support the user of SSL client certificates.

E-1710 - Improvement

Configured feeds are not persisted to Postgres SQL. Previous feed configuration files in /etc/cb/feeds are no longer supported.

• E-1643 - Improvement

Internal communication between Enterprise Server components via HTTP is now more robust against deadlock and hangs through the use of considered timeout values.

• E-1619 - Bugfix

Event tagging is made more robust in cases where events are tagged in multiple segments of the same process.

• E-1434 - Improvement

The computers page no longer supports the idea of "hiding" or "unhiding" a sensor installation. Instead, all sensors that are both:

- (a) not uninstalled
- (b) not marked as pending uninstallation

are visible by default. The 'Show Uninstalled Sensors' on the computers page allows these sensors to be shown.

• E-1430 - Improvement

Sensor diagnostic data verbosity is reduced on sensor checkin. This results in lower write requirements in Postgres.

• E-1344 - New Feature

A Sensor may not be restarted via either the computers page, or the host detail page.

E-1327 - Bugfix

Additional references to the anachronistic 'modules' term have been removed from the UI. They have been replaced with 'binary'.

• E-1309 - Improvement

It is no longer possible to delete the current (active) user via the web UI. This sidesteps issues that resulted from having a UI session with no active user context.

• E-1295 - Improvement

User password changing via the web UI has been made more robust.

• E-1211 - Improvement

Search autocomplete now works with spaces.

• E-1062 - New Feature

Enterprise Server now supports "horizontal scaling". This means that data can be distributed across two or more nodes of a cluster. Shards can be configured at setup time, or configured at any time after installation. In the case that the sharding strategy changes after installation, downtime may be required to transfer data and re-shard as necessary.

All existing functionality, including watchlists, search query, feeds, Alliance communications, licensing, and sensors, work as before.

Please contact Carbon Black support to determine best practices for a cluster environment.

• E-512 - Improvement

SOLR log verbosity has been reduced.

Carbon Black Enterprise Server 3.2.1

Changelog

E-2024 - Performance Improvement

Limit process watchlist results to the last seven days of results in the watchlist page. This includes limiting the results themselves, updating the "last hit" histogram to account only for the last seven days, updating the displayed text to reference the seven day window. These changes improve the performance of the watchlist page by limiting the amount of data which needs to be processed.

E-2026 - Performance Improvement

Default process search page to limit search results to the last 24 hours by default. This includes limiting the results themselves, in the UI with an adjustment of the "last modified" facet on the process search results page

E-2025 - Performance Improvement

Allow individual facets to be removed from calculations both the process and binary search pages. This capability is triggered by adding the following two configuration options to cb.conf:

```
CoreServicesDisabledProcessFacets
CoreServicesDisabledBinaryFacets
```

Neither option is required. The value for the option is a comma-delimited list of one or more facets to avoid calculating. For larger data sets, it is recommended to avoid calculating two process facets: path_full and process md5.

• E-2023 - Performance Improvement

Avoid performing search result highlighting on the watchlist page. Highlighting results are not displayed on the watchlist page and are therefore unnecessary.

• E-1985 - Bugfix

Server 3.2.0 release did not properly rotate logs in some cases. In particular, logs for nginx and SOLR were not properly logged. 3.2.1 addresses this issue by updating logger configuration to properly rotate logs.

• E-1983 - Bugfix

Enterprise server 3.2.0 did not properly execute a maintenance job, events_purge. The purposes of events_purge is to purge old event data from the process store. Because it was not execute properly, data was not deleted as aggressively as it should have been. 3.2.1 addresses this issue by updating the crond configuration to properly execute the events purge job.

• P-27 - Bugfix

The /etc/cb directory may be owned by root in certain upgrade scenarios. This prevents certain licensing-related features from working properly. 3.2.1 addresses this issue by removing directory permission requirements.

Carbon Black Enterprise Server 3.2.0

Highlights

Simplified Licensing

Enterprise Server 3.2.0 completely replaces the licensing scheme from Enterprise Server versions 3.0.x and 3.1.x. The 'credit' model has been replaced with a single 'concurrent use with expiration' model. A single human-readable license file, /etc/cb/server.lic, provides a maximum count of simultaneous licenses sensors and a license end-date. Please contact your Carbon Black point-of-contact or support@carbonblack.com prior to upgrading to 3.2.0.

Improved Query Performance

Search performance, particularly on the process search and watchlist pages, has been improved through increased parallelization on the search backend.

· Joined Search

Binary search characteristics, such as file version and digital signature information, is now searchable from the process search page. This makes it possible to perform a new set of queries not possible on 3.1.x.

User Logon Activity Monitoring

The history of UI user logon activity, including remote IP, is now available via the "Users and Teams" UI pages.

Enhanced Computer & Sensor Management UI

The "host detail" and "host list" pages, which track sensors, sensor groups, and computers, now include additional information for exploration and troubleshooting purposes.

· Improved Bandwidth Throttling

The bandwidth throttling UI, available from the 'sites' section of the administration page, is improved in that a throttle may extend to multiple hours and can be extended via dragging.

Alliance Client Communications Enhancements

The Alliance Client, in the form of the cb-allianceclient service, can now communicate via web proxy, including web proxies with basic authentication.

Improved Data Purging

The background data purging logic, which helps keep disk usage at a consistent and reasonable level, is now improved.

· Child Process Tagging

Child process creation and terminations are now tracked in the process analyze page, and can be tagged to an investigation. Support for child processes, including child process name and MD5, and count of child processes, are now supported in queries.

· Alternate Browser Support

The UI is now usable in Internet Explorer 10, Safari 6, and Firefox 23. There are a small number of minor artifacts remaining - none affect core functionality. When the artifacts are removed, the banner indicating that the browser is unsupported will be removed.

Changelog

U-382 - Improvement - Web UI

Add criteria dialogs for digital signature status now include checkbox options rather open-ended text box. This makes options discoverable.

• U-425 - Improvement - Web UI

Process analyze page events table now renders larger numbers of events at one time while scrolling down. This makes it easier and faster to see all events.

U-443 - Bugfix - Web UI, Enterprise Server Backend

Downloading sensor installers and binaries from the binary detail page is now done in a more straightforward manner, avoiding rare issues where the entire file was not downloaded.

• U-449 - Bugfix - Web UI

Watchlist page now works properly with no watchlists.

U-470, E-1081, E-1208 - New Feature - Web UI

A new feature, the 'process preview' dialog, was added to the process analyze, process search, and watchlists page. It allows for the high-level summary of a process to be previewed via a dialog rather than requiring transitioning pages.

• U-473 - New Feature - Web UI

Bandwidth throttle configuration can now be done on a multi-hour basis via mouse dragging. This compares favorably to the 3.1.0 bandwidth throttle configuration, which could only be done on an hour-by-hour basis.

• U-478 - New Feature - Web UI

Bandwidth throttle configuration page now supports both local and GMT times to assist in setting appropriate time intervals for bandwidth throttles.

• E-342 - New Feature - Enterprise Server

Enterprise Server components can now be run in a user-configurable user context. This compares with 3.1.0, which required that all Enterprise Server components run as the 'cb' user. User context can be specified in cb.conf.

• E-418, E-1040, E-1041 - Improvement - Enterprise Server

Enterprise Servers now bind to the same interfaces for both ipv4 and ipv6 connectivity.

• E-1044 - Bugfix - Query Parser

Negation queries with domain names now work as expected.

• E-1053 - Improvement - Enterprise Server

Included nginx version is now upgraded from 1.2.6 to 1.4.1. The upgrade of nginx is performed automatically by the cb-enterprise installer on upgrade of the Enterprise Server.

E-1054 - Improvement - Alliance Client, Web UI

The Alliance client now supports connect via web proxies. Both un-authenticated and basic authentication are supported.

• E-1064 - New Feature - Enterprise Server, Web UI

Joined binary and process searches are now supported. This means that any criteria supported in binary searches are now availble in the process search, and vice versa. In practical terms, this means a process search may now include binary details such as digital signature status, Virus Total hit count, and version number.

• E-1066 - Web UI - Improvement

The web UI now provides proactive notification of licensing issues, including warning prior to license expiration.

E-1155 - Enterprise Server, Web UI - New Feature

Child processes are not presented as events in the process analyze page. This includes child process creation and termination. Child process events can also be 'tagged' to an investigation.

Child process events are only shown from processes captured via a version 3.2.0 or greater sensor.

• E-1162 - Web UI - Improvement

Sensor uptime is now tracked via the host detail page.

Sensor uptime is only available for versions 3.1.0 and higher of the sensor.

• E-1204 - Web UI - Improvement

Web UI's logon page now includes better indication of login status.

• E-1213 - Enterprise server - Bugfix

cb-coreservices RPM now includes proper metadata, including associated e-mail address.

• E-1238 - Enterprise Server - Improvement

Debug logging for cron jobs now includes appropriate prefix such that the cron job name is included in the log output.

• E-1241 - Enterprise Server - Improvement

Sensor event logs are no longer written to disk temporarily during upload from sensor. This reduces disk load.

This requires 3.2.0 or better sensors. Previous sensor versions continue to function, although event logs are temporarily written to disk as before.

• E-1245 - Enterprise server - Improvement

Watchlist searcher cron job avoids holding open Postgres transactions while performing queries. This reduces number of open Postgres transactions.

E-1252 - Web UI - New Feature

Web UI login activity, to include username, timestamp, and remote IP, is now available via the web UI from the Users and Teams page.

• E-1267 - Enterprise Server - Improvement

Watchlist notification e-mails now include the Carbon Black server name.

• E-1268 - Enterprise Server - New Feature

Carbon Black now includes integration support for NVD. This allows for identifying binaries that are known-vulnerable based on the National Vulnerability Database.

• E-1300 - Enterprise Server - Improvement

Licensing model has been overhauled and dramatically simplified.

E-1316, E-1317 - Enterprise Server, Web UI - Improvement

Host detail page now includes a listing of all communications failures with the Enterprise Server, including HTTP layer failures uploading event logs and binary files. The HTTP failure code is included in the logs.

• E-1318 - Web UI - Improvement

The host detail page now includes a link to the process search page pre-filtered by that host.

• E-1326 - Web UI - Improvement

Host detail page now includes dramatically more information and a new layout to improve sensor troubleshooting and information gathering.

E-1369 - Enterprise Server - Improvement

Accounts are now locked out after 10 successive failed authentication attempts. Accounts can be unlocked via the 'cbpasswd' script in /usr/share/cb. The number of successive logins before lock is configurable via cb.conf

E-1411 - Web UI - Bugfix

Binary detail page now avoids displaying duplicate filenames.

E-1443 - Enterprise Server - Improvement

Performance statistics are uploaded to api.cloud.carbonblack.com hourly rather than every twelve hours. This only occurs if 'Community Participation' is explicitly enabled in the Web UI's setting page.

• E-1472 - Web UI - Bugfix

Deleting the topmost (first) watchlist on the web UI's watchlist page now works as expected.

E-1475 - Web UI - Bugfix

Cancelling the 'Add Site' dialog on the bandwidth throttle page now avoids redireting to the root page.

• E-1540 - Enterprise Server - Bugfix

cb.conf is now restricted to the root user, for both read and write.

E-1620 - Web UI - Improvement

The 'reset search terms' button on both the binary and process search pages now resets all aspects of the search, including facets.

• E-1621 - Enterprise Server, Web UI - Bugfix

Host detail page is now restricted to users that have view or greater access to the host's group.

E-1622 - Web UI - Bugfix

Search results page UI elements are now displayed consistently when no search results are returned.

• E-1639 - Enterprise Server - Improvement

The data 'purge' cron job, which purges old process data to keep disk usage at operational levels, is now improved. In particular, it better handles cases where timestamps of process documents were incorrect due to sensors with incorrect clocks.

• E-1644 - Alliance Client - Behavior Change

Alliance client changed to never upload customer-built watchlists to api.alliance.carbonblack.com.

E-1651 - Web UI - Bugfix

IP address 'Add Criteria' dialog box on web UI now works as expected.

E-1729 - Enterprise Server - Bugfix

Addresses issue that could occur when migrating 3.0.0 sensors from one group to another and simultaneously upgrading the sensor version. In this scenario, the sensor would no longer be able to communicate with the server.

E-1730 - Web UI - Improvement

E-mail subscription to a watchlist can now occur at the time of watchlist creation.

• E-1732 - Alliance Client - New Feature

Alliance Client can now communicate without the use of SSL client certificates. This provides support for certain network environments that do not support passing SSL client certificates.

• E-1750 - Enterprise Server - Improvement

Facet calculation is now performed in parallel rather than in series. This improves query performance on both the process and binary search pages.

• E-1520 - Enterprise Server - Improvement

Provide additional control over sensor registration behavior when the computer SID cannot be determined.

• E-1781 - Web UI - Bugfix

Investigations page event table can sometimes inappropriately wrap long text.

E-1782 - Web UI - Improvement

Timestamps are now properly rendered in Internet Explorer, Firefox, and Chrome

• E-1788 - Web UI - Bugfix

In the process or binary search results, attempting to page forward to the second (or subsequent) page of results while a facet is selected results in an infinite spinner.