

Carbon Black.



Cb Response Server

Configuration Guide (cb.conf)

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Carbon Black.

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Cb Response Server Configuration Guide

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Contents

1 Introduction	11
Overview	12
Changes on Upgrade	12
Format Guidelines	12
Other Documentation	13
Community Resources	13
Carbon Black Technical Support	14
2 Data Storage Settings	15
DatastoreRootDir	17
AllianceClientStorefilePurgeMax	17
AllianceClientNoStorefileDelete	17
EnableSolrBinaryInfoNotifications	18
EnableSolrFeedNotifications	18
EnableExtendedApiAuditLogging	18
CbSolrConnectionTimeout	19
CbSolrSocketTimeout	19
SolrOptimizationSkipOnWriterVolume	19
SolrOptimizeHour	19
SolrTimePartitioningMinutes	20
SolrTimePartitioningDailyStartTime	20
SolrTimePartitioningActivePartitions	20
SolrTimePartitioningOptimizeMaxSegments	20
SolrTimePartitioningFreeSpaceThresholdPerc	21
SolrTimePartitioningMaxSizeMB	21
KeepAllModuleFiles	21
MaxEventStoreSizeInDocs	21
MaxEventStoreDays	21
MaxEventStoreSizeInMB	22
PruneIndividualDocumentsByTime	22
MaxEventStoreSizeInPercent	22
MinAvailableSizeInMB	23
AlwaysDeleteColdPartitions	23
EnableRawSensorDataBroadcast	23
DatastoreBroadcastEventTypes	24
ProcessDocumentSplitThreshold	24
WatchlistEndTimeOffset	24
WatchlistStartTimeOffset	24
WatchlistEndTimeOffsetSeconds	24
WatchlistStartTimeOffsetSeconds	25
MaxSyslogSenderMessageSize	25
MaxCbLoggingMessageSize	25
MaxSearchResultRows	25
DatastoreLogTotalSizeCap	25
DatastoreLogMaxFileSize	25

DatastoreLogMaxHistory	26
SolrLogTotalSizeCap	26
SolrLogMaxFileSize	26
SolrLogMaxHistory	26
3 Sensor Management Settings	27
SensorLookupInactiveFilterDays	28
SensorCheckinDelayVariancePct	28
SensorCheckinDelayRate	28
SensorCheckinDelaySecOverride	28
SensorThrottleType	28
CoreServicesEventlogBytesCap	29
EventLogThresholdAgeSeconds	29
EventLogThresholdSizeBytes	29
SensorServicesPort	29
SensorServicesIP	29
SensorServicesWorkerConnections	30
SensorServicesLoggerConf	30
DatastoreSubmitQMemoryPercent	30
DatastoreSubmitTimeoutMs	30
DatastoreReservationTimeoutMs	30
ServiceUnavailableRetryDelay	30
RetryAfterMultiplier	31
EventExclusionsEnabled	31
EventlogLegacyThrottleMinRatio	31
EventlogLegacyThrottleMaxRatio	31
EventlogLegacyThrottleMultiplier	32
4 Communication Settings	33
AllowNullSensorHostRegister	34
CoreServicesWorkerCount	34
CoreServicesWorkerConnections	34
SSOConfig	34
AllianceNoClientCert	35
AllianceVerifyServerCert	35
AllianceClientProxyUrl	35
AllianceClientProxyAuth	35
EnforceClientCerts	35
DatastoreReservationCountThrottlingEnabled	36
DatastoreReservationCountThrottlingBufferPercent	36
DatastoreMaxTimeToSubmitS	36
DatastoreUseSensorUploadDynamicAveraging	37
DatastoreSensorUploadInitialAverageKB	37
DatastoreSensorUploadAverageTimeRangeS	37
DatastoreSensorUploadAverageMinCount	37
5 Network Settings	38
CoreServicesIP	39

CoreServicesPort	39
DatastorePort	39
DatastoreIP	39
MinionApiPort	39
NginxSensorHttpPort	39
NginxWebApiHttpPort	40
ReverseProxyIP	40
RedisHost	40
RedisPort	40
RedisStatsHost	40
RedisStatsPort	40
SolrIP	41
SolrPort	41
6 SSL Certificate Usage Settings	42
SSLCertFile	43
SSLKeyFile	43
AllianceCert	43
AllianceCertKey	43
7 Cb Response Server General Settings	46
CbUser	49
CbGroup	49
CbFileDescriptorLimit	49
CbLicenseFile	49
CbServerTokenFile	49
ClusterMembership	49
ClusterNodeIid	50
CbJavaHome	50
Managelptables	50
CbShutdownKillJobsTimeout	50
CoreServicesEnableProfiling	50
CoreServicesEnableApiProfiling	50
CoreServicesSmallScaleSensorCount	51
CoreServicesMaxCheckinInterval	51
CoreServicesEnableProcessFacets	51
CoreServicesEnableBinaryFacets	51
CoreServicesDisabledProcessFacets	51
CoreServicesDisabledBinaryFacets	51
CoreServicesMaxFacetThreads	52
CoreServicesEnableFuzzyProcessFacets	52
CoreServicesFuzzyProcessFacetsThreshold	52
CoreServicesFuzzyProcessFacetsSamplingPerc	52
CoreServicesEnableFuzzyBinaryFacets	53
CoreServicesFuzzyBinaryFacetsThreshold	53
CoreServicesFuzzyBinaryFacetsSamplingPerc	53
CoreServicesEnableFuzzyAlertFacets	53
CoreServicesFuzzyAlertFacetsThreshold	54

CoreServicesFuzzyAlertFacetsSamplingPerc	54
CoreServicesEnableFuzzyFeedFacets	54
CoreServicesFuzzyFeedFacetsThreshold	55
CoreServicesFuzzyFeedFacetsSamplingPerc	55
CoreServicesEventlogBytesCap	55
CoreServicesMaxEventlogBytesPerSensor	55
SensorMaxUpgradeRate	55
CoreServicesProcessSearchOrder	56
CoreServicesBinarySearchOrder	56
CoreServicesProcessPageSize	56
CoreServicesBinaryPageSize	56
CoreServicesProcessAutocomplete	56
CoreServicesBinaryAutocomplete	56
TimestampDeltaThreshold	57
CoreServicesPidFile	57
SensorInstallerDir	57
SensorInstallerDirOsx	57
SensorInstallerDirLinux	57
EmailNotificationsFromAddress	58
FlaskSecret	58
FailedLogonLockoutCount	58
AccountUnlockInterval	58
UserActivityQuota	58
UserActivityQuotaDelta	58
SolrQueryExecutionQuota	59
SolrQueryRecorderDurationThresholdMs	59
SolrQueryRecorderTopLevelOnly	59
AllianceClientPidFile	59
AllianceSyncIntervalSecs	59
AllianceURL	59
DatastoreJvmMax	60
DatastoreEventCoreClientThreads	60
DatastoreAllowUnregisteredSensor	60
DatastoreShutdownTimeout	60
DatastoreDisableJMXRemote	60
DisableDatastoreCache	60
SmallDeploymentMode	61
DatastoreDbPoolSize	61
IngresScannerEventProcessorDir	61
EnableProcessMD5FeedHits	61
FeedHitMinScore	61
FeedHitMinScore<XXXXX>	61
FeedNotificationsRateLimiterEnabled	62
FeedNotificationsRateLimit	62
FeedNotificationsRateLimitDuration	62
EventStoreSolrCore	62
ModInfoStoreSolrCore	62
ModInfoStoreFlushInterval	63

PgSqlDataDir	63
PgSqlPidFile	63
PgSqlLogfilePath	63
PgSqlHost	63
PgSqlPort	63
DatabaseURL	63
ModstorePath	64
CoreServicesMaxEventResultsPerProcess	64
CoreServicesMaxSegmentsPerProcess	64
WatchlistSearchMaxTags	64
SearchRestrictFirstSegment	64
SearchUseTerminatedOnCounts	64
ModulesCacheMemoryPercent	65
ModulesCacheWritePeriodSecs	65
ModulesRecentCacheTimeoutMultiplier	65
ForceComprehensiveSearch	65
DefaultSolrTimeoutS	66
RebuildEventSuggestersMins	66
RebuildEventSuggestersTimeoutS	66
RebuildModuleSuggestersMins	66
RebuildModuleSuggestersTimeoutS	66
WatchlistSearchTimeoutS	66
CbDiagTmpDir	67
8 RabbitMQ (cb-rabbitmq service) Settings	70
RabbitMQPort	71
RabbitMQManagementPort	71
RabbitMQDistPort	71
RabbitMQEpmPort	71
RabbitMQUser	71
RabbitMQPassword	71
RabbitMQDataPath	72
RabbitMQPidFile	72
9 Cb Live Response and Banning Settings	74
CbLREnabled	75
CbLRCheckinTimeout	75
CbLRSessionTimeout	75
CbLRSensorWaitTimeout	75
CbLRMaxStoreSizeMB	75
CbLrDefaultSessionTTLDays	75
CbLRMaxActiveSessions	75
BanningEnabled	76
10 Event Actions Configuration Settings	78
AlertWriterSeverityCalcConfig	79

11 Service Init Script Settings	80
ProfileSvcInitBash	81
12 Statistics Reporting Settings	82
GraphiteHost	83
GraphiteStatsUploadPort	83
GraphitePrefix	83
13 Service Reporting Settings	84
CbSolrStatsGraphiteReporterEnabled	85
CbSolrStatsGraphiteReporterInterval	85
CbSolrStatsGraphiteReporterFilter	85
CbSolrStatsLogReporterEnabled	85
CbSolrStatsLogReporterInterval	85
CbSolrStatsLogReporterFilter	85
CbDatastoreStatsGraphiteReporterEnabled	85
CbDatastoreStatsGraphiteReporterInterval	85
CbDatastoreStatsGraphiteReporterFilter	85
CbDatastoreStatsLogReporterEnabled	85
CbDatastoreStatsLogReporterInterval	86
CbDatastoreStatsLogReporterFilter	86
14 Cb Threat Intel Settings	88
FeatureThirdPartySharing	89
TicUrl	89
15 Syslog Template Settings	90
WatchlistSyslogTemplateProcess	91
WatchlistSyslogTemplateBinary	91
BinaryInfoSyslogTemplateObserved	91
BinaryInfoSyslogTemplateGroupObserved	91
BinaryInfoSyslogTemplateHostObserved	91
16 Third-Party Authentication	92
TwoFactorAuthCallbackModulePath	93
CbStatsDaemon	93
SolrDiskType	93
NetfilterConntrackMax	93

Chapter 1

Introduction

This document describes the contents of the `cb.conf` file, the primary configuration file for Cb Response. By changing the values of parameters in `cb.conf`, you can change the behavior and performance of Cb Response.

Before editing `cb.conf`, you should be sufficiently familiar with the features and operation of Carbon Black's Cb Response to make judgments about when and whether to change its configuration. For details about using Cb Response, refer to the *Cb Response User Guide* for the version you are installing.

Sections

Topic	Page
Overview	12
Other Documentation	13
Carbon Black Technical Support	14

Overview

The primary configuration file for the Cb Response server is:

```
/etc/cb/cb.conf
```

The first time you install the Cb Response server, running **cbinit** creates the `cb.conf` file from a template that includes the standard parameters and default settings for that server version.

In a simple production environment, there is typically no need to modify `cb.conf` directly — many configuration options are either set during installation or through the Cb Response console. Configuration options described in this document, however, can be useful for troubleshooting issues with the server, customizing the configuration for local integration, or making other customizations and enabling features such as Cb Response Live (CbLR).

Changes on Upgrade

Each new version of the Cb Response server might add or remove some parameters in the `cb.conf` file, or change the defaults for existing parameters. When you install a new version of the server, however, the upgrade program does not overwrite the existing `cb.conf` file. Instead, it preserves any custom changes you have made to `cb.conf` and creates a new file called `cb.conf.upgrade`.

Examine the `cb.conf.upgrade` file as well as this document to determine what parameters are new or changed in this release. You can then either copy the relevant new (or changed) sections from `cb.conf.upgrade` into `cb.conf`, or replace `cb.conf` with an edited version of the upgrade file.

Note

The `cb.conf.upgrade` file is for information purposes only and has no functional effect on your Cb Response server configuration (unless renamed to `cb.conf`).

Format Guidelines

Settings in the configuration file affect Cb Response services as well as the Bash shell on your server. If you edit the file, carefully observe the following formatting rules to avoid parsing errors:

- All comment lines begin with a hash mark (#).
- Place comments on their own line.
- Do not add comments to the end of a line that contains a property setting.
- Define all properties as name=value pairs.
- Omit whitespace (spaces or tabs) around the equals sign (=) as follows:
 - Correct format:
name=value
 - Incorrect format:
name =value
name= value
name = value

Other Documentation

Visit the Carbon Black User eXchange website at <https://community.carbonblack.com> to locate documentation for tasks not covered in this guide as well as other documents maintained as a knowledge base for technical support solutions. Some of these documents are updated with every newly released build, while others are updated only for minor or major version changes. Documents include:

- *Cb Response Operating Environment Requirements Guide (OER)* – Describes performance and scalability considerations in deploying a Cb Response server. This was called the *Server Sizing Guide* in previous releases.
- *Cb Response Server/Cluster Management Guide* – Describes how to install, manage, backup/restore, etc. a Cb Response server/cluster. This guide is for on-premises Cb Response installations only.
- *Cb Response User Guide* – Describes the Cb Response product and explains how to use all of its features and perform administration tasks.
- *Cb Response Unified View User Guide* – Describes how to install and manage Cb Response Unified View.
- *Cb Response Integration Guide* – Provides information for administrators who are responsible for integrating Cb Response with various tools, such as Cb Protection, EMET, VDI, SSO, and more.
- *Cb Response API* – Documentation for the Cb Response REST API is located at <https://developer.carbonblack.com/reference/enterprise-response>. Documentation for the Python module that can be used for easy access to the REST API is hosted at <https://cbapi.readthedocs.io>.
- *Connectors* – Documentation describing how to install, configure and maintain various Carbon Black connectors is located at <https://developer.carbonblack.com/guide/enterprise-response/#connectors>. A connector enables communication between a third-party product and Cb Response server.

Community Resources

The Carbon Black User eXchange website at <https://community.carbonblack.com> provides access to information shared by Carbon Black customers, employees and partners. It includes information and community participation for users of all Carbon Black products, including Cb Response, Cb Response, and Cb Defense.

When you login to this resource, you can:

- Ask questions and provide answers to other users' questions.
- Enter a "vote" to bump up the status of product ideas.
- Download the latest user documentation.
- Participate in the Carbon Black developer community by posting ideas and solutions or discussing those posted by others.
- View the training resources available for Carbon Black products.

You must have a login account to access the User eXchange. Contact your Technical Support representative if you need to get an account.

Carbon Black Technical Support

Carbon Black Technical Support provides the following channels for resolving support questions:

- **Web (User eXchange):** <http://community.carbonblack.com>
- **Email:** support@carbonblack.com
- **Phone:** Tel: 617.393.7400
- **Fax:** 617.393.7499

When contacting Carbon Black Technical Support, be sure to provide the following information:

Required Information	Description
Contact	Your name, company name, telephone number, and email address.
Product version	Product name and version number.
Document version	For documentation issues, specify the date and version of the manual you are using.
Problem	Action causing the problem, error message returned, and event log output (as appropriate).
Problem severity	Critical, serious, minor, or enhancement.

Chapter 2

Data Storage Settings

This section describes the data storage settings in the `cb.conf` file.

Settings in this Chapter

<code>DatastoreRootDir</code>	17
<code>AllianceClientStorefilePurgeMax</code>	17
<code>AllianceClientNoStorefileDelete</code>	17
<code>EnableSolrBinaryInfoNotifications</code>	18
<code>EnableSolrFeedNotifications</code>	18
<code>EnableExtendedApiAuditLogging</code>	18
<code>CbSolrConnectionTimeout</code>	19
<code>CbSolrSocketTimeout</code>	19
<code>SolrOptimizationSkipOnWriterVolume</code>	19
<code>SolrOptimizeHour</code>	19
<code>SolrTimePartitioningMinutes</code>	20
<code>SolrTimePartitioningDailyStartTime</code>	20
<code>SolrTimePartitioningActivePartitions</code>	20
<code>SolrTimePartitioningOptimizeMaxSegments</code>	20
<code>SolrTimePartitioningFreeSpaceThresholdPerc</code>	21
<code>SolrTimePartitioningMaxSizeMB</code>	21
<code>KeepAllModuleFiles</code>	21
<code>MaxEventStoreSizeInDocs</code>	21
<code>MaxEventStoreDays</code>	21
<code>MaxEventStoreSizeInMB</code>	22
<code>PruneIndividualDocumentsByTime</code>	22
<code>MaxEventStoreSizeInPercent</code>	22
<code>MinAvailableSizeInMB</code>	23
<code>AlwaysDeleteColdPartitions</code>	23
<code>EnableRawSensorDataBroadcast</code>	23
<code>DatastoreBroadcastEventTypes</code>	24
<code>ProcessDocumentSplitThreshold</code>	24
<code>WatchlistEndTimeOffset</code>	24

WatchlistStartTimeOffset	24
WatchlistEndTimeOffsetSeconds.....	24
WatchlistStartTimeOffsetSeconds	25
MaxSyslogSenderMessageSize	25
MaxCbLoggingMessageSize	25
MaxSearchResultRows.....	25
DatastoreLogTotalSizeCap	25
DatastoreLogMaxFileSize	25
DatastoreLogMaxHistory.....	26
SolrLogTotalSizeCap	26
SolrLogMaxFileSize	26
SolrLogMaxHistory	26

DatastoreRootDir

Default: `/var/cb/data`

Sets the path to the root directory where runtime data for the Cb Response server is stored. This data includes Solr, PostgreSQL, and flat-file storage of module files. Each of these storage types has additional parameters, which are described in this document.

Note

Consult [Carbon Black Technical Support](#) if you want to move your data root directory from one volume to another.

AllianceClientStorefilePurgeMax

Default: 100

Specifies the maximum number of storage files (binaries uploaded from sensors to the server) that the Cb Response Alliance client purges from a local hard drive, if it determines that the files should be deleted. See [AllianceClientNoStorefileDelete](#) for information about the criteria that is used to delete these files.

AllianceClientNoStorefileDelete

Default: 0

Specifies if the Cb Response Alliance client should keep binary files locally after they have been uploaded to the central Cb Response Alliance server. If this is set to 0, the Cb Response Alliance client deletes binary storefiles after uploading them to preserve local hard drive space. If set to 1, binary modules are not deleted after they have been uploaded.

Caution

The *Purge* script still erases binary files to recover disk space unless *KeepAllModuleFiles* has been set to 1.

You can always download binary files from the Cb Response Alliance server, even if the files have been deleted from your Cb Response server. Download attempts through the console will search the Alliance server if no local copy of a file is available. The Cb Response API also provides access to Alliance server downloads.

EnableSolrBinaryInfoNotifications

Default: `False`

When set to `True`, this parameter enables notifications for binaries that are entirely new to Cb Response or new to specific sensor hosts or sensor groups. One notification event occurs for each of the following cases:

- The binary is completely new to the sensors reporting to this server.
- The binary is new to the host that reported it.
- The binary is new to the sensor group to which the reporting host belongs. This means that one newly discovered binary can trigger up to three notifications. Notifications are sent to syslog as log messages.

EnableSolrFeedNotifications

Default: `True`

When set to `True`, this parameter enables notifications when documents that register as feed hits are committed to the Solr index. Users can configure different types of notifications per feed to be alerted of these events.

EnableExtendedApiAuditLogging

Default: `False`

When this parameter is set to `True` (enabled), Cb Response logs all REST API requests from either the console or other sources, such as scripts, and stores the data in `/var/log/cb/audit/useractivity.log`, as shown in the following example:

```
2017-12-22 11:30:54: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v2/
sensor'
2017-12-22 11:30:54: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v1/
alert'
2017-12-22 11:30:55: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v1/
detect/report/currentmonitoringstatus'
2017-12-22 11:30:55: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v3/
group'
2017-12-22 11:30:57: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v1/
feed'
2017-12-22 11:30:57: username='dave' userid='1'
ip='::ffff:192.168.56.1' status='200' method='GET' path='/api/v1/
process'
```

The audit information also appears in the User Management section of the console on the Activity Audit tab, and in a CSV file downloaded from that page, as shown in the following example:

```
username, timestamp, ip_address, request_method, request_path,
result, description
"dave", "2017-12-22 21:33:29.031897-
05:00", "::ffff:192.168.56.1", "GET", "/api/v2/group", "200", "OK"
"dave", "2017-12-22 21:33:28.988702-
05:00", "::ffff:192.168.56.1", "GET", "/api/users", "200", "OK"
"dave", "2017-12-22 21:33:28.979345-
05:00", "::ffff:192.168.56.1", "GET", "/api/teams", "200", "OK"
```

When this parameter is set to `False`, no REST API requests are logged or stored in `useractivity.log`, and the Activity Audit tab shows only login and logout events.

Change Note: New in version 6.2.1.

CbSolrConnectionTimeout

Default: 0

Sets the connection timeout from the Solr backend engine to the datastore in milliseconds. If the internal defaults for the Solr client are in use, this value is 0.

CbSolrSocketTimeout

Default: 0

Sets the socket read timeout from the Solr backend engine to the datastore in milliseconds. If the internal defaults for the Solr client are in use, this value is 0.

SolrOptimizationSkipOnWriterVolume

Default: False

If set to `True`, the system never optimizes the partition on the volume that is currently being written to. This helps to keep reads and writes below EBS volume limits for EC2 instances in an Amazon Web Services environment.

Change Note: New in version 6.1.

SolrOptimizeHour

Default: 0 (midnight)

Controls when Solr optimization is done (in local time).

The Cron syntax is supported for this parameter. For example, using the value `*/12` for the hour optimizes Solr every 12 hours.

Change Note: New in version 6.1.

SolrTimePartitioningMinutes

Default: 4320

Controls the time partitioning for Solr collections, in minutes per partition. If set to zero (0), Solr Time Partitioning will be disabled. The default is equivalent to 3 days.

Important: Configure either SolrTimePartitioningDailyStartTime or SolrTimePartitioningMinutes, but not both. If both are configured, SolrTimePartitioningDailyStartTime takes precedence.

Change Note: New in version 6.1.

SolrTimePartitioningDailyStartTime

Default: (no default)

Controls the time partitioning for Solr collections by specifying a daily start time. This is represented by the number of minutes after 00:00 (UTC) that the partitioning should occur. For example, a value of 60 would represent 01:00 UTC, and a new partition would be created at that time each day.

Important: Configure either SolrTimePartitioningDailyStartTime or SolrTimePartitioningMinutes, but not both. If both are configured, SolrTimePartitioningDailyStartTime takes precedence.

Change Note: New in version 6.1.

SolrTimePartitioningActivePartitions

Default: 30

Controls the number of actively searched Solr partitions that remain in the query index.

Change Note: New in version 6.1.

SolrTimePartitioningOptimizeMaxSegments

Default: 10

Controls the maximum number of segments used to optimize warm partitions.

Note: Setting this parameter lower than the default of 10 could cause optimization to take a very long time per core.

Change Note: New in version 6.1.

SolrTimePartitioningFreeSpaceThresholdPerc

Default: 5

If there are multiple event storage volumes, event storage switches to a different volume when this threshold for the percent of remaining space is reached. For example, when volume 1 is 95% full, and volume 2 is less full, event storage switches to a new partition on volume 2.

Change Note: New in version 6.1.

SolrTimePartitioningMaxSizeMB

Default: 0

Sets a maximum size (MB) for partitions, after which a new partition is started. This is an optional way to partition based on partition size instead of time (that is, SolrTimePartitioningMinutes or SolrTimePartitioningDailyStartTime).

If set to 0, only time-based partitioning is used.

Change Note: New in version 6.1.

KeepAllModuleFiles

Default: 0

Enables or disables the deletion of binary files uploaded from sensors.

The default value of 0 indicates that the uploaded files are deleted at the following times:

- After they are uploaded to the Cb Response Alliance server.
- When data is purged to free up storage volume.

Changing this value to 1 sets the server to never delete module files.

MaxEventStoreSizeInDocs

Change Note: Removed from version 6.1. There is no longer an absolute event core size in docs.

MaxEventStoreDays

Default: 30

Controls how old warm (mounted) partitions can get before they are unmounted or deleted. When threshold is reached, oldest partition is either unmounted (converted to cold) or deleted from disk, based on value of AlwaysDeleteColdPartitions.

Change Note: The behavior of the parameter is now affected by the new AlwaysDeleteColdPartitions parameter.

Note: Partition age is not determined by the timestamp of the partition itself, which is assigned at the partition *start time*. Instead, partition end time is used for this purpose, and this is determined by the timestamp of the *next partition* in line.

MaxEventStoreSizeInMB

Default: 0

By default, process data is purged automatically when disk space is required. If this value is set, process data is unmounted or deleted, starting from the earliest date, until the size of the process store is less than this value. This determines how big the total event store can get in MB before warm partitions are purged. When the threshold is reached, the oldest partition are either be unmounted (converted to cold) or deleted from disk, based on value of `AlwaysDeleteColdPartitions`.

Change Note: The behavior of the parameter is now affected by the new `AlwaysDeleteColdPartitions` parameter.

PruneIndividualDocumentsByTime

Default: `False`

Controls whether individual documents will be pruned if their age exceeds the `MaxEventStoreDays` setting.

- If `False`, the system relies on unloading *partitions* to prune old data, when the entire partition ages out.
- If `True`, the system will delete *older documents* from the oldest warm partition when `MaxEventStoreDays` is reached.

This flag allows more expensive per-document purging in cases when `SolrTimePartitioningMinutes` is set to be higher than a day. This means that the partition will not be purged until youngest document in partition reaches `MaxEventStoreDays` threshold, which could leave an amount of data up to the value of `SolrTimePartitioningMinutes` over this boundary.

Note: Because deletion of individual documents is a more “expensive” operation than partition-based purging, Carbon Black recommends setting this to `True` only if you use large partitions (>3 days) and want to save on disk space.

Change Note: New in version 6.1.

MaxEventStoreSizeInPercent

Default: 90

Determines what percent of total disk space can be taken up by the event store before cleanup is triggered. The total disk space that is available to the event store is calculated as the sum of the current event store size and free disk space. When the threshold is reached, the oldest partition will be either unmounted (converted to cold) or deleted from disk, based on value of `AlwaysDeleteColdPartitions`.

Change Note: The default was raised to 90 (percent) in version 6.1. In addition, the behavior of the parameter is now affected by the new `AlwaysDeleteColdPartitions` parameter.

MinAvailableSizeInMB

Default: 0

Sets a lower limit on the available disk space that must be maintained on the mount point where the event store resides. This parameter takes precedence over all other storage-size parameters, except for `MaxEventStoreSizeInDocs`. It is an optional parameter.

This determines how much free space to leave on the events data disk before purging warm partitions. If this condition is met, partitions are deleted from disk rather than converted into cold partitions

AlwaysDeleteColdPartitions

Default: `True`

Controls the handling of cold (unmounted) partitions, including partitions unmounted due to conditions defined by other parameters in `cb.conf`.

- If `True`, unmounted partitions will be automatically deleted from the disk.
- If `False`, unmounted partitions will not be deleted unless available disk size is less than the `MinAvailableSizeInMB` setting. In this case, unmounted partitions will be deleted rather than unmounted, regardless of related settings, such as `SolrTimePartitioningActivePartitions` or `MaxEventStoreDays`.

Change Note: New in version 6.1.

EnableRawSensorDataBroadcast

Default: `False`

Determines how the data store publishes to the message bus. If you set this to `True` and set `DatastoreBroadcastEventTypes` to empty, then you get data in the same format in which the sensors send it by subscribing to the `api.rawsensordata` channel instead of the `api.events` channel.

That format will be <4 byte integer length (in little endian)><n bytes of protobuf data as specified in the header> ... repeated.

Note

Users should check the content type header for each RabbitMQ message to determine if the content is zipped or not. If the content type is `application/zip`, the message should be unzipped before processing.

DatastoreBroadcastEventTypes

Default: (None)

If this property is not empty, it enables publishing of incoming events from sensors onto RabbitMQ PUBSUB enterprise bus. See [Chapter 8, “RabbitMQ \(cb-rabbitmq service\) Settings”](#) (cb-rabbitmq service) settings in this file.

The value of this property consists of 1 or more of the following comma-separated event types that should be published:

- `procstart` (or `process`)
- `procend`
- `childproc`
- `moduleload`
- `module` (a new module/binary has been encountered)
- `filemod`
- `regmod`
- `netconn`
- `crossproc`

To subscribe for all of the above event types, specify the value as `"*"`. Each event type will be published to its own topic: `ingress.event.<event type>`

ProcessDocumentSplitThreshold

Change Note: Removed in 6.1.

WatchlistEndTimeOffset

Change Note: Removed in 6.1. Replaced by `WatchlistEndTimeOffsetSeconds`

WatchlistStartTimeOffset

Change Note: Removed in 6.1. Replaced by `WatchlistStartTimeOffsetSeconds`.

WatchlistEndTimeOffsetSeconds

Default: 0

Changes the search window end-time offset (in seconds) for watchlist search jobs.

Important: Watchlist parameters are optimized based on the commit interval of the Solr backend. Contact Carbon Black Support before you change these values.

Change Note: New in version 6.1. Replaces `WatchlistEndTimeOffset`.

WatchlistStartTimeOffsetSeconds

Default: 90

Specifies the search window start-time offset (in seconds) for watchlist search jobs.

Important: Watchlist parameters are optimized based on the commit interval of the Solr backend. Contact Carbon Black Support before you change these values.

Change Note: New in version 6.1. Replaces WatchlistStartTimeOffset.

MaxSyslogSenderMessageSize

Default: 1024

Configures the maximum syslog message size (in bytes) for `cb-enterprise` syslog notifications. This configuration does not automatically adjust the maximum message size setting in `rsyslog` configuration.

MaxCbLoggingMessageSize

Default: 2048

Configures the maximum syslog message size (in bytes) for `cb-enterprise` log output under `/var/log/cb`. This configuration does not automatically adjust the maximum message size setting in `rsyslog` configuration.

MaxSearchResultRows

Default: 1000

Configures the maximum number of search result rows to display in the console per page.

DatastoreLogTotalSizeCap

Default: 4GB

Maximum allowable disk space of all datastore debug logs. If this number is exceeded, old logs are purged.

Change Note: New in version 6.1.

DatastoreLogMaxFileSize

Default: 500MB

Maximum allowable file size of a single debug log file. If this number is exceeded, a log rotation occurs.

Change Note: New in version 6.1.

DatastoreLogMaxHistory

Default: 14

Maximum number of days to keep datastore debug logs. Logs older than this number of days are deleted.

Change Note: New in version 6.1.

SolrLogTotalSizeCap

Default: 4GB

Maximum allowable disk space of all Solr debug logs. If this number is exceeded, old logs are purged.

Change Note: New in version 6.1.

SolrLogMaxFileSize

Default: 500MB

Maximum allowable file size of a single debug log file. If this number is exceeded, a log rotation occurs.

Change Note: New in version 6.1.

SolrLogMaxHistory

Default: 14

Maximum number of days to keep Solr debug logs . Logs older than this number of days are deleted.

Change Note: New in version 6.1.

Chapter 3

Sensor Management Settings

This section describes sensor-related settings in the `cb.conf` file.

Settings in this Chapter

SensorLookupInactiveFilterDays	28
SensorCheckinDelayVariancePct	28
SensorCheckinDelayRate	28
SensorCheckinDelaySecOverride.....	28
SensorThrottleType.....	28
CoreServicesEventlogBytesCap	29
EventLogThresholdAgeSeconds.....	29
EventLogThresholdSizeBytes	29
SensorServicesPort	29
SensorServicesIP.....	29
SensorServicesWorkerConnections	30
SensorServicesLoggerConf	30
DatastoreSubmitQMemoryPercent	30
DatastoreSubmitTimeoutMs.....	30
DatastoreReservationTimeoutMs.....	30
ServiceUnavailableRetryDelay.....	30
RetryAfterMultiplier.....	31
EventExclusionsEnabled.....	31
EventlogLegacyThrottleMinRatio	31
EventlogLegacyThrottleMaxRatio	31
EventlogLegacyThrottleMultiplier	32

SensorLookupInactiveFilterDays

Default: 0

Determines whether sensors that have not checked in for the specified number of days are filtered out of the console Sensors page.

This setting has no effect when set to the default value of 0.

When set to > 0 , this setting causes the **Sensors** page (navigate to **Administration > Sensors**) to filter out any sensors that have not been checked in during the past x number of days with x being the value you set here. This setting filters the results of the API call `GET /api/v1/sensor`.

SensorCheckinDelayVariancePct

Default: 0.1

Smoothing factor for determining the next check-in for individual sensors. For example, if calculated check-in offset (which is calculated at runtime based on the number of active sensors, divided by `SensorCheckinDelayRate`) is 60, and `SensorCheckinDelayVariancePct` is 0.1, then actual next sensor check-in time is 60 ± 6 . This helps to distribute sensor check-ins evenly.

Change Note: New in version 6.0.

SensorCheckinDelayRate

Default: 100

Sets the maximum number of check-ins per second, per minion.

Change Note: New in version 6.0.

SensorCheckinDelaySecOverride

Default: 0 (off)

Overrides the calculated check-in delay.

Change Note: New in version 6.0.

SensorThrottleType

Default: titan

Throttling strategy. The default `titan` means post-6.0. The other valid value is `legacy`, which means pre-6.0 throttling strategies.

Note: A `titan` throttling type will support pre-6.0 sensors, but a `legacy` throttling type will not support 6.0 sensors.

CoreServicesEventlogBytesCap

Default: 157286400

Default value for maximum bytes (157286400, or 150MB) that can be upload by a group of sensors that will check-in within the next 465 seconds.

EventLogThresholdAgeSeconds

Default: 5 * 50

Sets the minimum age of sensor event log to cache before sending to the server. This is a numeric setting that can accept any valid Python math expression (as shown in the default). Designates a time period in seconds. Thus, "5 * 60" means 5 minutes.

Pushed to 6.x sensor in check-in response. Used in legacy throttle calculation during check-in to compare age of legacy sensor backlog.

Change Note: New in version 6.1.

EventLogThresholdSizeBytes

Default: 10 * 1024 * 1024

Sets the minimum size of sensor event log to cache before sending to the server. This is a numeric setting that can accept any valid Python math expression (see default), Designates a size in bytes. Thus, "10 * 1024 * 1024" means 10 MB.

Pushed to 6.x sensor in check-in response. Used in legacy throttle calculation during check-in to compare size of legacy sensor backlog.

Change Note: New in version 6.1.

SensorServicesPort

Default: 6500

Two sensor service instances per minion listening on the configured port, and the configured port + 1. By default, this would be ports 6500 and 6501. This service handles distributed sensor check-ins.

Change Note: New in version 6.1.

SensorServicesIP

Default: [: :]

Sets the listening address for sensor services. Change to 0.0.0.0 for hosts without ipv6 stack.

SensorServicesWorkerConnections

Default: 150

Sets the number of requests each sensor service instance stack can handle simultaneously.

SensorServicesLoggerConf

Default: `/etc/cb/sensorservices-logger.conf`

Complete path to the logging configuration file for sensor services.

DatastoreSubmitQMemoryPercent

Default: 10

Sets the memory used by the front-end throttle queue, as percentage of JVM memory.

Change Note: New in version 6.1.

DatastoreSubmitTimeoutMs

Default: 0

Sets the length of time (in milliseconds) to wait to reserve data in the front-end throttle queue before timing out.

Change Note: New in version 6.1.

DatastoreReservationTimeoutMs

Default: 60000 (60 seconds)

Sets the length of time the throttle queue reservation will be valid before expiring.

Change Note: New in version 6.1. Default changed in 6.2.1.

ServiceUnavailableRetryDelay

Default: 60

Specifies the number of seconds to wait before retrying when the console returns a 503 (service unavailable) message from the datastore when the site throttle or maximum low priority request thresholds have been exceeded.

Change Note: New in version 6.1.

RetryAfterMultiplier

Default: 1.0

If the value is not 1.0, modifies the "retry-after" calculation that occurs when the front-end throttle queue is full. A value of 0 makes the result of the calculation 0. A value of 1.0 keeps the calculation as is. Any value higher than 1.0 makes the retry-after value larger by that factor. Floating point values are allowed.

Change Note: New in version 6.1.

EventExclusionsEnabled

Default: False

If set to True, enables a console feature that allows you to exclude collection of certain process events from macOS/OS X hosts based on the path of the parent process. The settings are applied on a per Sensor Group basis and defined on an Exclusions tab on the Edit Group Settings page (only visible when this setting is true).

This feature is currently supported only on the macOS/OS X platform for Cb Response macOS/OS X sensor versions 6.0.4 and above (in the 6.x series) and 5.2.7 and above (in the 5.x series).

Note: To enable this feature, you must also restart cb-enterprise services.

Change Note: This was introduced in version 6.1 but previously not documented.

EventlogLegacyThrottleMinRatio

Default: 0.1

Part of the algorithm to calculate throttle for legacy sensors relies on these three settings:

- EventlogLegacyThrottleMinRatio
- EventlogLegacyThrottleMaxRatio
- EventlogLegacyThrottleMultiplier

Final throttle represents the probability [0..1] that any given sensor will send event logs within the next check-in period and is calculated based on the current value of "retry-after" for a given cluster node.

Final calculation is multiplied with EventlogLegacyThrottleMultiplier and also bounded with EventlogLegacyThrottleMinRatio and EventlogLegacyThrottleMaxRatio. In order to linearly reduce or increase volume of legacy sensor event logs, reduce or increase EventlogLegacyThrottleMaxRatio from default value of 1.0.

Change Note: New in version 6.1.

EventlogLegacyThrottleMaxRatio

Default: 1.0

See EventlogLegacyThrottleMinRatio (above).

Change Note: New in version 6.1.

EventlogLegacyThrottleMultiplier

Default: 1.0

See EventlogLegacyThrottleMinRatio (above).

Change Note: New in version 6.1.

Chapter 4

Communication Settings

This section describes the communication settings in the `cb.conf` file.

These settings adjust the communications between the Cb Response server and other components in the Cb Response environment (such as sensors and the Cb Response Alliance server).

Settings in this Chapter

AllowNullSensorHostRegister	34
CoreServicesWorkerCount	34
CoreServicesWorkerConnections	34
SSOConfig	34
AllianceNoClientCert	35
AllianceVerifyServerCert	35
AllianceClientProxyUrl	35
AllianceClientProxyAuth	35
EnforceClientCerts	35
DatastoreReservationCountThrottlingEnabled	36
DatastoreReservationCountThrottlingBufferPercent	36
DatastoreMaxTimeToSubmitS	36
DatastoreUseSensorUploadDynamicAveraging	37
DatastoreSensorUploadInitialAverageKB	37
DatastoreSensorUploadAverageTimeRangeS	37
DatastoreSensorUploadAverageMinCount	37

AllowNullSensorHostRegister

Default: 1

If this value is set to 1, the Cb Response server will request and require the sensor computer's Security Identifier (SID). If this value is empty, the server rejects the registration. If the server rejects the sensor registration, the sensor re-attempts registration in a few minutes, which includes another attempt to get the sensor computer SID.

Important: You should not need to change the default value of this configuration property. Contact Carbon Black Support before attempting to change it.

Note: This setting is only relevant to Windows sensors.

CoreServicesWorkerCount

Default: 4

Number of worker processes `cb-coreservices` should create to handle incoming client requests.

CoreServicesWorkerConnections

Default: 10

The maximum number of simultaneous requests that can be handled by a single worker process. If the incoming request rate is greater than can be handled, requests are queued up to be handled when one of the existing ones completes.

Important: Worker processes maintain a pool of database connections and that pool has a limit of 10 connections. Carbon Black strongly recommends that this value not exceed the default value of 10.

SSOConfig

Default: (no default)

Use this option to enable Cb Response server integration with an external Single Sign-On (SSO) provider by providing a path to a SSO configuration file. This is not enabled by default, but if it is enabled, the default path (which is commented out) is `/etc/cb/sso/sso.conf`.

AllianceNoClientCert

Default: 0

The Cb Response Alliance server uses SSL client certificates to authenticate communication with Cb Response servers. Many SSL inspection devices do not support client certificates and immediately end the connection when they receive a client certificate.

Set this parameter to 1 to prevent transmission of the SSL client certificate.

Note: Contact [Carbon Black Technical Support](#) for alternate authentication arrangements.

AllianceVerifyServerCert

Default: 1

Indicates that the Cb Response Alliance server's SSL certificate must be validated with the Cb Response Certificate Authority. If the server's SSL certificate was not signed by the Cb Response Certificate Authority, the connection will fail. If your network uses an SSL inspection device, this parameter must be disabled.

AllianceClientProxyUrl

Default: (no default)

Specifies the proxy to be used for internet access. This is disabled by default. If enabled, the default value is <http://127.0.0.1:3128>.

AllianceClientProxyAuth

Default: `basic`

Specify the type of authentication the proxy uses. Supported types are either `basic` or `ntlm` (NT Lan Manager).

EnforceClientCerts

Default: `True`

Cb Response sensors validate servers by using SSL server certificates. The Cb Response server also validates sensors by using SSL client certificates. This setting specifies whether the Cb Response server allows sensors that do not provide an SSL certificate to communicate with it.

This value should generally be `True`, but can be disabled for troubleshooting, addressing mismatched certificates, or upgrading pre-v3.1.0 sensors that did not support SSL client certificates.

DatastoreReservationCountThrottlingEnabled

Default: `False`

Determines whether site throttling is enabled to control data flow from compatible sensors.

When set to `False`, throttling settings (listed below) have no effect and the throttling feature is bypassed.

When set to `True`, the sensor will notify the server of how much data it has to send and requests a "reservation" to upload it. The server controls the number of sensors that can submit data concurrently based on two things: the amount of data they submit on average and the limiting rate of submission per sensor, which is based on site configuration. Regardless of this and its related settings, the minimum number of sensors allowed to check in at any time is 1.

Minimum sensor versions for compatibility with this feature are: OSX 6.2.0, LNX 5.2.10, WIN 6.1.2 HF2. It is unsupported on previous sensor versions.

This setting must be set to `True` for the following other settings to take effect:

`DatastoreReservationCountThrottlingBufferPercent`, `DatastoreMaxTimeToSubmitS`, `DatastoreUseSensorUploadDynamicAveraging`, `DatastoreSensorUploadInitialAverageKB`, `DatastoreSensorUploadAverageTimeRangeS`, `DatastoreSensorUploadAverageMinCount`.

Important: A cb-enterprise services restart is required after making this `cb.conf` change.

Change Note: New in version 6.2.2.

DatastoreReservationCountThrottlingBufferPercent

Default: 0

Reduces amount of capacity usage by the specified percentage. For example, if you set the throttle on the Settings > Sites page of the console to 500KB/s, if this value is set to 10, Cb Response attempts to use 450KB/s. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

DatastoreMaxTimeToSubmitS

Default: 60

The maximum amount of time in seconds that a sensor has to submit data before a timeout. $\text{Max Count} = \text{Max Rate} / (\text{Average} / \text{DatastoreMaxTimeToSubmitS})$. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

DatastoreUseSensorUploadDynamicAveraging

Default: `True`

Enables/Disables dynamic averaging of sensor upload amounts. If false, sensors always use the `DatastoreSensorUploadInitialAverageKB` value. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

DatastoreSensorUploadInitialAverageKB

Default: `1536`

The initial amount to assume the average upload amount will be (1.5MB by default). Otherwise before the first sensor requested to submit, the average would be 0. This value is more important when `DatastoreUseSensorUploadDynamicAveraging` is turned off. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

DatastoreSensorUploadAverageTimeRangeS

Default: `300`

The time range (in seconds) used for the averages of sensor submissions. For example, the default value of 300 means that if a submit occurs prior to the last 300 seconds, it's value will no longer be counted. This is used to make a rolling average. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

DatastoreSensorUploadAverageMinCount

Default: `20`

The minimum number of submissions to keep, even if they've become stale (outside the time range specified by `DatastoreSensorUploadAverageTimeRangeS`). This keeps the average more stable on systems where there is not a lot of activity. Effective only if `DatastoreReservationCountThrottlingEnabled` is true.

Change Note: New in version 6.2.2.

Chapter 5

Network Settings

This section describes the network settings in the `cb.conf` file.

Review, update, or modify these settings to adjust the Cb Response server listener IP addresses and ports.

Settings in this Chapter

CoreServicesIP	39
CoreServicesPort	39
DatastorePort	39
DatastoreIP	39
MinionApiPort	39
NginxSensorHttpPort	39
NginxWebApiHttpPort	40
ReverseProxyIP	40
RedisHost	40
RedisPort	40
RedisStatsHost	40
RedisStatsPort	40
SolrIP	41
SolrPort	41

CoreServicesIP

Default: `:::`

The `coreservices` daemon binds to this interface. This parameter allows you to specify an option that makes sense in your environment, such as:

- `:::` – listen on ALL IPv4 and IPv6 interfaces
- `0.0.0.0` – listen on ALL IPv4 ONLY interfaces
- `127.0.0.1` – listen on local IPv4 loopback interface
- `:::1` – listen on local IPv6 loopback interface
- `127.0.0.1|:::1` – listen on IPv4 AND IPv6 loopback interfaces

CoreServicesPort

Default: `5000`

The `coreservices` daemon binds to the port specified by this parameter.

DatastorePort

Default: `9000`

The data store service `cbfs-http` binds to this port.

DatastoreIP

Default: `0.0.0.0`

The data store service `cbfs-http` binds to this IP address. With the default value of `0.0.0.0`, the service will bind to all network interfaces.

MinionApiPort

Default: `443`

This port is used for API calls from the master to minion servers.

NginxSensorHttpPort

Default: `443`

Nginx maintains its own configuration files. However, this property must be kept in sync with the configuration of the `listen` directive in `/etc/cb/nginx/conf.d/cb.conf`, so that other components (such as firewall management) know which ports are used for HTTP communications.

NginxWebApiHttpPort

Default: 443

See [“NginxSensorHttpPort”](#) for more details on this property.

ReverseProxyIP

Default: ::ffff:192.168.1.10

If this IP address is set, Nginx does not check client certificates from a reverse proxy. For sensors reporting through the reverse proxy, the proxy must be configured with the client certificate and private key from the Cb Response server for the sensors.

In addition, these headers should be set:

- The `X-Client-Cert-Id` header must be set by the reverse proxy to the ID of the client certificate used by the sensor.
- The `X-Real-IP` header must be set to the correct address on the reverse proxy.

Details for the configuration and requirements for a reverse proxy are available from [Carbon Black Technical Support](#).

Note

The IPv4 address of a reverse proxy is in IPv6-wrapped format.

RedisHost

Default: localhost

Sets the Redis general cache host.

RedisPort

Default: 6379

Sets the Redis general cache listener port (TCP).

RedisStatsHost

Default: localhost

Sets the Redis statistics cache host.

RedisStatsPort

Default: 6379

Sets the Redis statistics cache listener port (TCP).

SolrIP

Default: 127.0.0.1

Sets the network binding IP address for the cb-solr service.

SolrPort

Default: 8080

Sets the binding between the cb-solr service and specified port. This identifies the HTTP port that is used for processes on localhost and other nodes in a cluster configuration.

Chapter 6

SSL Certificate Usage Settings

This section describes the SSL certificate usage in the `cb.conf` file.

Cb Response uses SSL certificates in the following ways:

- Sensors use SSL server certificates to validate that they are communicating with the correct Cb Response server.
- The Cb Response server uses SSL client certificates to validate that it is communicating with authentic sensors.
- The Cb Response server uses an SSL server certificate to validate that it is communicating with the correct Cb Response Alliance server.
- The Cb Response Alliance server uses SSL client certificates to validate that it is communicating with authentic Cb Response servers.

Settings in this Chapter

SSLCertFile	43
SSLKeyFile	43
AllianceCert	43
AllianceCertKey	43

SSLCertFile

Default: `/etc/cb/certs/cb-server.crt`

Sets the location of the SSL certificate file that is used for HTTPS communications between sensors and the Cb Response server. These certificates are generated during `cbinit` and are unique for each Cb Response server.

Important: If these paths are modified, a corresponding change must also be made in the `etc/nginx/conf.d/cb.conf` file.

SSLKeyFile

Default: `/etc/cb/certs/cb-server.key`

Sets the location of the SSL private key file that is used for HTTPS communications between sensors and the Cb Response server. These certificates are generated during `cbinit` and are unique for each Cb Response server.

Important: If these paths are modified, a corresponding change must also be made in the `etc/nginx/conf.d/cb.conf` file.

AllianceCert

Default: `/etc/cb/certs/carbonblack-alliance-client.crt`

Sets a SSL certificate file that is used for client-side authentication when an HTTPS connection with a Cb Response Alliance server is established.

These files are loaded onto the machine when the Cb Response Release RPM is installed. The files are used whenever the Cb Response server must communicate with central Cb Response Alliance server(s). This includes yum repositories for installing and upgrading the Cb Response server software as well as the Cb Response Alliance client service.

Important: These Cb Response certificates are specific to each customer organization and should be treated with care. Do not share them with other organizations or people outside your company.

AllianceCertKey

Default: `/etc/cb/certs/carbonblack-alliance-client.key`

Sets SSL private key files that are used for client-side authentication when an HTTPS connection with a Cb Response Alliance server is established.

These files are loaded onto the machine when the Cb Response Release RPM is installed. The files are used whenever your Cb Response server must communicate with central servers at Cb Response. This includes yum repositories for installing and upgrading the Cb Response server software as well as the Cb Response Alliance client service.

Chapter 7

Cb Response Server General Settings

This section describes general settings in the `cb.conf` file for Cb Response server.

Settings in this Chapter

CbUser	49
CbGroup.....	49
CbFileDescriptorLimit.....	49
CbLicenseFile	49
CbServerTokenFile	49
ClusterMembership	49
ClusterNodeId	50
CbJavaHome	50
Managetables.....	50
CbShutdownKillJobsTimeout	50
CoreServicesEnableProfiling	50
CoreServicesEnableApiProfiling	50
CoreServicesSmallScaleSensorCount.....	51
CoreServicesMaxCheckinInterval	51
CoreServicesEnableProcessFacets.....	51
CoreServicesEnableBinaryFacets	51
CoreServicesDisabledProcessFacets.....	51
CoreServicesDisabledBinaryFacets.....	51
CoreServicesMaxFacetThreads.....	52
CoreServicesEnableFuzzyProcessFacets	52
CoreServicesFuzzyProcessFacetsThreshold	52
CoreServicesFuzzyProcessFacetsSamplingPerc.....	52
CoreServicesEnableFuzzyBinaryFacets.....	53
CoreServicesFuzzyBinaryFacetsThreshold	53
CoreServicesFuzzyBinaryFacetsSamplingPerc.....	53
CoreServicesEnableFuzzyAlertFacets.....	53
CoreServicesFuzzyAlertFacetsThreshold.....	54
CoreServicesFuzzyAlertFacetsSamplingPerc	54
CoreServicesEnableFuzzyFeedFacets	54

CoreServicesFuzzyFeedFacetsThreshold	55
CoreServicesFuzzyFeedFacetsSamplingPerc.....	55
CoreServicesEventlogBytesCap	55
CoreServicesMaxEventlogBytesPerSensor	55
SensorMaxUpgradeRate.....	55
CoreServicesProcessSearchOrder	56
CoreServicesBinarySearchOrder	56
CoreServicesProcessPageSize	56
CoreServicesBinaryPageSize	56
CoreServicesProcessAutocomplete.....	56
CoreServicesBinaryAutocomplete	56
TimestampDeltaThreshold	57
CoreServicesPidFile.....	57
SensorInstallerDir.....	57
SensorInstallerDirOsx	57
SensorInstallerDirLinux	57
EmailNotificationsFromAddress	58
FlaskSecret	58
FailedLogonLockoutCount	58
AccountUnlockInterval	58
UserActivityQuota	58
UserActivityQuotaDelta	58
SolrQueryExecutionQuota	59
SolrQueryRecorderDurationThresholdMs.....	59
SolrQueryRecorderTopLevelOnly	59
AllianceClientPidFile	59
AllianceSyncIntervalSecs.....	59
AllianceURL	59
DatastoreJvmMax	60
DatastoreEventCoreClientThreads	60
DatastoreAllowUnregisteredSensor	60
DatastoreShutdownTimeout.....	60
DatastoreDisableJMXRemote	60
DisableDatastoreCache	60
SmallDeploymentMode	61
DatastoreDbPoolSize.....	61
IngresScannerEventProcessorDir.....	61
EnableProcessMD5FeedHits	61
FeedHitMinScore	61
FeedHitMinScore<XXXXX>	61
FeedNotificationsRateLimiterEnabled.....	62
FeedNotificationsRateLimit	62
FeedNotificationsRateLimitDuration.....	62
EventStoreSolrCore	62
ModInfoStoreSolrCore	62
ModInfoStoreFlushInterval	63
PgSqlDataDir	63
PgSqlPidFile.....	63

PgSqlLogfilePath.....	63
PgSqlHost	63
PgSqlPort	63
DatabaseURL.....	63
ModstorePath.....	64
CoreServicesMaxEventResultsPerProcess	64
CoreServicesMaxSegmentsPerProcess	64
WatchlistSearchMaxTags	64
SearchRestrictFirstSegment	64
SearchUseTerminatedOnCounts	64
ModulesCacheMemoryPercent.....	65
ModulesCacheWritePeriodSecs	65
ModulesRecentCacheTimeoutMultiplier	65
ForceComprehensiveSearch	65
DefaultSolrTimeoutS	66
RebuildEventSuggestersMins	66
RebuildEventSuggestersTimeoutS	66
RebuildModuleSuggestersMins	66
RebuildModuleSuggestersTimeoutS.....	66
WatchlistSearchTimeoutS.....	66
CbDiagTmpDir	67

CbUser

Default: `cb`

Defines the user with which the Cb Response services are run. The `cb` user is created during RPM installation. To use another user, create the user, and then restart the Cb Response server (`cb-enterprise`).

CbGroup

Default: `cb`

Defines the Linux group with which the Cb Response services are run. The `cb` sensor group is created during RPM installation. To use another service group, create the group in Linux, update this value, and then restart the Cb Response server (`cb-enterprise`).

CbFileDescriptorLimit

Default: `8000`

By default, CentOS allows only 1024 file descriptors per process. This number is too low for Cb Response. Cb Response updates the process file descriptor limit in the `cb-enterprise` init script to the default value with `ulimit -n .`

CbLicenseFile

Default: `/etc/cb/server.lic`

The path to the Cb Response server license file.

Note: Consult [Carbon Black Technical Support](#) before attempting to change this parameter.

CbServerTokenFile

Default: `/etc/cb/server.token`

A random hexadecimal string used to uniquely identify this Cb Response server installation.

Note: Consult [Carbon Black Technical Support](#) before attempting to change this parameter.

ClusterMembership

Default: (no default)

Indicates whether or not this server node is part of a cluster. Valid values are: `Standalone`, `Master`, and `Slave`.

ClusterNodeId

Default: 0

A server node unique identifier. In a standalone installation, a one-to-one relationship exists between this field and server token. However, if this node is part of a cluster, the server token represents the entire cluster, while this identifier uniquely identifies each node in the cluster.

CbJavaHome

Default: /usr/lib/jvm/jre-1.7.0-openjdk.x86_64/

Cb Response requires JRE version 1.7.0 or later. If the JRE is installed at a different location on your server, change this value to reflect the correct location.

Managelptables

Default: `True`

Indicates whether or not the Cb Response server setup tools will manage the configuration of iptables on behalf of the user. Set this value to `False` if you want to administer the firewall configuration yourself.

CbShutdownKillJobsTimeout

Default: 30

The time in seconds to wait before killing cb cron jobs when cb-enterprise is shutting down.

CoreServicesEnableProfiling

Default: `Off`

Specifies whether or not to enable profiler on start. Valid values for this property are `Off`, `CpuTicks`, and `WallClock`.

CoreServicesEnableApiProfiling

Default: `False`

Specifies whether detailed API profiling is enabled. If enabled, your browser's development console will contain timing info on each API call.

CoreServicesSmallScaleSensorCount

Default: 25

If the number of sensors that are currently active is less than this value, the sensor check-in interval is always 30 seconds. If it is greater, Cb Response calculates a dynamic check-in interval.

CoreServicesMaxCheckinInterval

Default: 1335

Configures the maximum interval, in seconds, between successive sensor check-ins from a single sensor. Raising this value decreases the load on the server, as there are fewer sensor check-ins and fewer modifications to the event store.

CoreServicesEnableProcessFacets

Default: True

Enables or disables all Cb Response console facets (small graphic data displays) on the **Search Processes** page. This is enabled by default.

CoreServicesEnableBinaryFacets

Default: True

Enables or disables all Cb Response console facets (small graphic data displays) on the **Search Binaries** page. This is enabled by default. For more information on facets, see the *Carbon Black Response User Guide*.

Note: This setting is comma delimited.

CoreServicesDisabledProcessFacets

Default: (no default)

Disables specified Cb Response console facets (small graphic data displays at the top of the page) on the **Search Processes** page. For more information on facets, see the *Carbon Black Response User Guide*.

Note: This setting is comma delimited.

CoreServicesDisabledBinaryFacets

Default: (no default)

Disable specified Cb Response console facets (small graphic data displays at the top of the page) on the **Search Binaries** page.

CoreServicesMaxFacetThreads

Default: `None`

Configures the maximum number of threads used for console facets. The default of `None` disables facet threading.

Change Note: Default value changed since version 6.0. It was formerly `1`.

CoreServicesEnableFuzzyProcessFacets

Default: `True`

Enables and disables the use of statistical sampling for calculating the terms in facets. This provides significantly improved runtime performance and reduced memory usage.

If `True`, fuzzy faceting of process facets begins when the following other configuration parameters reach a specified threshold:

- `CoreServicesFuzzyProcessFacetsThreshold` (Default = 10000)
- `CoreServicesFuzzyProcessFacetsSamplingPerc` (Default = 0)

See the descriptions of these parameters for additional details.

Change Note: This parameter existed in pre-6.1 versions but the underlying parameters for fine-tuning were not exposed.

CoreServicesFuzzyProcessFacetsThreshold

Default: `10000`

One of two parameters that determine whether fuzzy faceting will start, if enabled by `CoreServicesEnableFuzzyProcessFacets`.

Specifies the maximum number of documents returned for any given process search before fuzzy faceting begins.

Change Note: New in version 6.1.

CoreServicesFuzzyProcessFacetsSamplingPerc

Default: `0`

One of two parameters that determine whether fuzzy faceting will start, if enabled by `CoreServicesEnableFuzzyProcessFacets`.

Defines the sampling rate as a percentage of the total number of documents returned for any given process search.

Note: The default value of `0` percentage dynamically adjusts based on total result count, in order to reach a sample size of at least `CoreServicesFuzzyProcessFacetsThreshold`.

Change Note: New in version 6.1.

CoreServicesEnableFuzzyBinaryFacets

Default: `True`

Enables and disables the use of statistical sampling for calculating the terms in binary facets. This provides significantly improved runtime performance and reduced memory usage. You can disable this setting to make the resulting data more accurate, but it will significantly slow down performance.

If `True`, fuzzy faceting of binary facets will begin when the following other configuration parameters reach a specified threshold:

- `CoreServicesFuzzyBinaryFacetsThreshold` (Default = 10000)
- `CoreServicesFuzzyBinaryFacetsSamplingPerc` (Default = 0)

See the listings for these parameters for additional details.

Change Note: This parameter existed in pre-6.1 versions but the underlying parameters for fine-tuning were not exposed.

CoreServicesFuzzyBinaryFacetsThreshold

Default: `10000`

One of two parameters that determine whether fuzzy faceting of binary facets will start, if enabled by `CoreServicesEnableFuzzyBinaryFacets`.

Specifies the maximum number of documents returned for any given process search before fuzzy faceting begins.

Change Note: New in version 6.1.

CoreServicesFuzzyBinaryFacetsSamplingPerc

Default: `0`

One of two parameters that determine whether fuzzy faceting of binary facets will start, if enabled by `CoreServicesEnableFuzzyBinaryFacets`.

Defines sampling rate as a percentage of total documents returned for any given process search.

Note: The default value of 0 percentage dynamically adjusts based on total result count, in order to reach a sample size of at least `CoreServicesFuzzyBinaryFacetsThreshold`.

Change Note: New in version 6.1.

CoreServicesEnableFuzzyAlertFacets

Default: `False`

Enables and disables the use of statistical sampling for calculating the terms in alert facets. This provides significantly improved runtime performance and reduced memory usage.

If `True`, fuzzy faceting of alert facets will begin when the following other configuration parameters reach a specified threshold:

- `CoreServicesFuzzyAlertFacetsThreshold` (Default = 10000)
- `CoreServicesFuzzyAlertFacetsSamplingPerc` (Default = 0)

See the listings for these parameters for additional details.

Change Note: This parameter existed in pre-6.1 versions but the underlying parameters for fine-tuning were not exposed.

CoreServicesFuzzyAlertFacetsThreshold

Default: 10000

One of two parameters that determine whether fuzzy faceting of alert facets will start, if enabled by `CoreServicesEnableFuzzyAlertFacets`.

Specifies the maximum number of documents returned for any given process search before fuzzy faceting begins.

Change Note: New in version 6.1.

CoreServicesFuzzyAlertFacetsSamplingPerc

Default: 0

One of two parameters that determine whether fuzzy faceting of alert facets will start, if enabled by `CoreServicesEnableFuzzyAlertFacets`.

Defines sampling rate as a percentage of total documents returned for any given process search.

Note: The default value of 0 percentage dynamically adjusts based on total result count, in order to reach a sample size of at least `CoreServicesFuzzyAlertFacetsThreshold`.

Change Note: New in version 6.1.

CoreServicesEnableFuzzyFeedFacets

Default: `False`

Enables and disables the use of statistical sampling for calculating the terms in feed facets. This provides significantly improved runtime performance and reduced memory usage.

If `True`, fuzzy faceting of feed facets begins when the following other configuration parameters reach a specified threshold:

- `CoreServicesFuzzyFeedFacetsThreshold` (Default = 10000)
- `CoreServicesFuzzyFeedFacetsSamplingPerc` (Default = 0)

Enabling this setting improves runtime performance and reduces memory usage. Disabling this setting increases the accuracy of the resulting data, but slows down performance.

Change Note: This parameter existed in pre-6.1 versions but the underlying parameters for fine-tuning were not exposed.

CoreServicesFuzzyFeedFacetsThreshold

Default: 10000

One of two parameters that determine whether fuzzy faceting of feed facets will start, if enabled by `CoreServicesEnableFuzzyFeedFacets`.

Specifies the maximum number of documents returned for any given process search before fuzzy faceting begins.

Change Note: New in version 6.1.

CoreServicesFuzzyFeedFacetsSamplingPerc

Default: 0

One of two parameters that determine whether fuzzy faceting of feed facets will start, if enabled by `CoreServicesEnableFuzzyFeedFacets`.

Defines sampling rate as a percentage of total documents returned for any given process search.

Note: The default value of 0 percentage dynamically adjusts based on total result count, in order to reach a sample size of at least `CoreServicesFuzzyFeedFacetsThreshold`.

Change Note: New in version 6.1.

CoreServicesEventlogBytesCap

Default: 157286400 (157MB)

Sets the upper limit on the aggregate number of bytes that can be uploaded by a group of sensors that will check-in during the next monitoring interval. You can disable this setting to make the resulting data more accurate, but it will significantly slow down performance.

CoreServicesMaxEventlogBytesPerSensor

Default: 10485760 (10MB)

Sets the maximum number of bytes a sensor can push per check-in.

SensorMaxUpgradeRate

Default: 600

Sets the maximum auto-upgrades per hour. If this property is specified, it places a limit on the number of auto-upgrade requests triggered from a sensor group version setting.

By default, if this option is not specified, there is no cap and any sensor that must be upgraded will be instructed to do so with its next check-in.

CoreServicesProcessSearchOrder

Default: (no default)

Sets the sort order of process search results as seen in the Cb Response console. The format of this field is: `fieldname direction`, where `direction` is either `asc` (for ascending) or `desc` (for descending).

CoreServicesBinarySearchOrder

Default: (no default)

Sets the sort order of binary search results as seen in the Cb Response console. The format of this field is: `fieldname direction` where `direction` is either `asc` (for ascending) or `desc` (for descending).

CoreServicesProcessPageSize

Default: 10

Sets the number of matching process documents that display on each page as seen in the **Search Processes** page in the Cb Response console.

CoreServicesBinaryPageSize

Default: 10

Sets the number of matching binary documents that display on each page as seen in the **Search Binaries** page in the Cb Response console.

CoreServicesProcessAutocomplete

Default: `Suggester`

Sets the backend method for the auto-complete function for search queries entered in the **Search Processes** page. Valid values are:

- `Suggester: Faster` – This value does not include counts or infrequent terms.
- `Terms: Slower` – This value includes counts and all terms.

CoreServicesBinaryAutocomplete

Default: `Terms`

Sets the backend method for the auto-complete function for search queries entered in the **Search Binaries** page. Valid values are:

- `Suggester: Faster` -This value does not include counts or infrequent terms.
- `Terms: Slower` – This value includes counts and all terms.

TimestampDeltaThreshold

Default: 5

Sets the time (in seconds) used as a threshold for identifying sensors with unsynchronized clocks.

CoreServicesPidFile

Default: `/var/run/cb/coreservices.pid`

Contains the current process ID of the coreservices daemon.

SensorInstallerDir

Default: `/usr/share/cb/coreservices/installers`

Directory path for Cb Response sensor installers on *Windows*. Installers are loaded from this directory at server startup through coreservices, or with the command `/usr/share/cb/cbcheck sensor-builds -u`, where `-u` is for update.

After installer packages are loaded, they are available for installing or upgrading endpoint sensors. See the *Cb Response User Guide* for details.

SensorInstallerDirOsx

Default: `/usr/share/cb/coreservices/installers`

Directory path for Cb Response sensor installers on *macOS*. Installers are loaded from this directory at server startup through coreservices, or with the command `/usr/share/cb/cbcheck sensor-builds -u`, where `-u` is for update.

After installer packages are loaded, they are available for installing or upgrading endpoint sensors. See the *Cb Response User Guide* for details.

SensorInstallerDirLinux

Default: `/usr/share/cb/coreservices/installers`

Directory path for Cb Response sensor installers on *Linux*. Installers are loaded from this directory at server startup through coreservices, or with the command `/usr/share/cb/cbcheck sensor-builds -u`, where `-u` is for update.

After installer packages are loaded, they are available for installing or upgrading endpoint sensors. See the *Cb Response User Guide* for details.

EmailNotificationsFromAddress

Default: `no-reply@carbonblack.com`

Configure email from the address for watchlist and feed notifications.

FlaskSecret

Default: (no default)

This required value is a random string of ASCII-printable characters. It is unique for each server and auto-generated during `cbinit`. It is used to encrypt session cookies that are used when a user authenticates with the Cb Response console.

FailedLogonLockoutCount

Default: 10

Sets the number of times a user can fail authentication before the account is locked.

AccountUnlockInterval

Default: 30

Sets the number of minutes after which a locked account unlocks.

UserActivityQuota

Default: 10000

Cb Response logs all user authentication in the PostgreSQL database. This setting defines the minimum number of authentication records that are kept.

UserActivityQuotaDelta

Default: .1

Defines when to start trimming the number of user authentication records. It is a percentage of "[UserActivityQuota](#)".

For example, if `UserActivityQuota` is set to 10000 and `UserActivityQuotaDelta` is set to .1, when the number of records reaches 11000, it is reduced to 10000. This ensures that you always have the most recent 10000 records.

SolrQueryExecutionQuota

Default: 10000

Total number of records retained in the SQL table SolrQueryExecution, which records expensive queries.

Controls recording of slow Solr queries by setting a threshold for keeping a history of SOLR query executions. Slower queries are recorded in SQL and then saved in cbdiaqs when cbdiaqs are requested.

Change Note: New in version 6.1.

SolrQueryRecorderDurationThresholdMs

Default: 1000

Controls recording of slow Solr queries by setting a threshold on the execution time (in milliseconds) allowed for recording slow queries. Slower queries are recorded in SQL and then saved in cbdiaqs when cbdiaqs are requested.

Change Note: New in version 6.1.

SolrQueryRecorderTopLevelOnly

Default: True

When true, record only top-level Solr queries. Queries on individual cores (including minions) will not be recorded.

Change Note: New in version 6.1.

AllianceClientPidFile

Default: /var/run/cb/allianceclient.pid

Sets the path to the PID file that is used for the Cb Response Alliance client service control.

AllianceSyncIntervalSecs

Default: 60

Sets the time (in seconds) between periodic connection attempts to the Cb Response Alliance server.

AllianceURL

Default: https://api.alliance.carbonblack.com

Sets the URL of the Cb Response Alliance server.

DatastoreJvmMax

Default: 10%

Sets the maximum amount of RAM to be used for the JVM's memory heap. This can be specified either as a number of megabytes (for example, 4096) or as a percentage of the host machine's physical RAM by appending % on the end (for example, 30%).

DatastoreEventCoreClientThreads

Default: 0

Sets the number of worker threads that process data from the throttle queue and insert it into Solr. The default of zero causes auto-calculation of threads based on CPU cores.

DatastoreAllowUnregisteredSensor

Default: 0

Controls whether the datastore accepts data from a sensor that has not been registered with a Cb Response server. The default of 0 disables this capability, and there is generally no reason to enable it.

DatastoreShutdownTimeout

Default: 60

Sets the number of seconds to wait (when the datastore is being stopped) for all buffers and cached data to be cleanly written to disk. After this time, if the service is still running, it is forcibly stopped.

DatastoreDisableJMXRemote

Default: 0

Allows external Java management or a debugging process on the local machine to communicate with the datastore. If this setting is not 0, the datastore process is launched without this setting.

DisableDatastoreCache

Change Note: Removed from version 6.1. See SmallDeploymentMode for equivalent functionality.

SmallDeploymentMode

Default: `False`

If set to `True`, this option disables datastore caching and causes Solr to commit process document updates within 15 seconds. This option trades performance for reduced latency.

Change Note: The default for this parameter was `True` in pre-6.1 versions.

DatastoreDbPoolSize

Default: 4

Sets the maximum database connections from a single datastore instance.

IngresScannerEventProcessorDir

Default: `/etc/cb/datastore/processors`

Sets the location of ingress scanner event processor libs and configuration.

Important: Consult Carbon Black Support before attempting to change this parameter.

EnableProcessMD5FeedHits

Default: `True`

If `True` (the default), ingress and subsequent storage feed hits triggered by MD5 of the process are enabled.

If `False`, MD5 feed hits are only triggered when metadata for a newly observed binary file is recorded.

FeedHitMinScore

Default: 1

Sets the cap on the minimum feed hit score that will trigger a feed hit event.

Note: This does not control whether or not a document will get tagged but only controls the creation of events that drive email, syslog, and alert notifications.

FeedHitMinScore<XXXXX>

Default: 1

Sets the cap on the minimum feed hit score that will trigger a feed hit event *for a specific feed*, where 'XXXXX' is the `feed_name` attribute of the feed obtaining the special value.

This can be used to override the value set for feed hit events in [FeedHitMinScore](#). If set, this specifies the minimum feed hit score that will trigger a feed hit event for the specified feed.

For example, to require a minimum feed hit score of 3 for events from the Cb Reputation threat feed (formerly the Software Reputation Service or 'SRS'), you would use `FeedHitMinSrsThreat=3`.

FeedNotificationsRateLimiterEnabled

Default: `False`

Enables limiting of feed hit notification rate using a limit specified by [FeedNotificationsRateLimit](#) for a period specified by [FeedNotificationsRateLimitDuration](#).

Change Note: This existed in previous versions but was undocumented.

FeedNotificationsRateLimit

Default: `5`

Specifies the maximum number of feed hit notifications that can be sent for a given feed within a period specified by [FeedNotificationsRateLimitDuration](#). Applied only when [FeedNotificationsRateLimiterEnabled](#) is set to `True`.

Change Note: This existed in previous versions but was undocumented.

FeedNotificationsRateLimitDuration

Default: `1`

Specifies the duration in hours for which the [FeedNotificationsRateLimit](#) value is valid.

Rate limit counters will be reset after [FeedNotificationsRateLimitDuration](#) number of hours elapses. Applied only when [FeedNotificationsRateLimiterEnabled](#) is set to `True`.

For example, if [FeedNotificationsRateLimiterEnabled](#) is `True`, and if [FeedNotificationsRateLimit](#)=5 and [FeedNotificationsRateLimitDuration](#)=1, the effective rate limit is 5 hits per hour. This means that after sending five notifications for a particular IOC in a given feed, no more notifications will be sent for the rest of the hour.

Change Note: This existed in previous versions but was undocumented.

EventStoreSolrCore

Change Note: Removed from version 6.1.

ModInfoStoreSolrCore

Default: `cbmodules`

Sets the name of the Solr core to be used for module information storage.

ModInfoStoreFlushInterval

Default: 1000

Sets the time interval, in milliseconds, with which buffered module information events are pushed to the module information Solr core.

PgSqlDataDir

Default: `/var/cb/data/pgsql`

Sets the location of the PostgreSQL data directory.

PgSqlPidFile

Default: `/var/run/cb/cb-pgsql.pid`

Sets the path to the PID file, which is used for `cb-pgsql` service control.

PgSqlLogfilePath

Default: `/var/log/cb/pgsql/startup.log`

Sets the path to the `cb-pgsql` startup log file. This file captures output that is generated prior to the initialization of the logging framework.

PgSqlHost

Default: `*`

Sets the network interfaces on which `cb-pgsql` listens. Specify `*` to listen on all available interfaces. More than one interface can be specified with the use of a comma (,) separator.

PgSqlPort

Default: 5002

Sets the port on which `cb-pgsql` listens.

DatabaseURL

Default: `postgresql+psycopg2://cb:<passwd>@localhost:5002/cb`

Sets the SQLAlchemy database URL that is used to connect with PostgreSQL. Substitute your password in the default shown above. For example:

`postgresql+psycopg2://cb:ZX1234Hbn987G4tk@localhost:5002/cb`

ModstorePath

Default: `/var/cb/data/modulestore`

Sets the flat-file storage location for module file storage.

CoreServicesMaxEventResultsPerProcess

Default: `10000`

Sets the maximum number of events to return from the `/process/<guid>/<segment>/event` API.

Change Note: New in version 6.1.

CoreServicesMaxSegmentsPerProcess

Default: `1000`

Sets the maximum number of segments to return from `/process/<guid>/0/preview`, `/process/<guid>/0`, `/process/<guid>/0/report`

Change Note: New in version 6.1.

WatchlistSearchMaxTags

Defaults: `100`

Sets the number of tags to set in a single watchlist search.

Change Note: New in version 6.1. This was previously hard-coded to 100.

SearchRestrictFirstSegment

Default: `False`

Determines whether to use special logic to restrict searches only at `segment_id:1` as long as query doesn't contain event fields.

Changing this to `True` will make some queries on old data return 0 results since immutable sensors will not send `segment_id:1`.

Change Note: New in version 6.1.

SearchUseTerminatedOnCounts

Default: `True`

Adds accuracy for queries that use event count fields (for example, `filemod_count`, `netconn_count`) with immutable documents, which are the default in version 6.1.

Change Note: New in version 6.1.

ModulesCacheMemoryPercent

Default: 5

Sets the percent of memory that should be used in the datastore for the module partition cache structures. This cache holds md5 values that have been observed in process documents so that Cb Response can periodically and efficiently update module documents with the set of partition id's that they have been observed in.

Change Note: New in version 6.1.

ModulesCacheWritePeriodSecs

Default: 30

Sets the frequency (in seconds) for writing out partition updates to modules observed by Cb Response.

Change Note: New in version 6.1.

ModulesRecentCacheTimeoutMultiplier

Default: 4

Sets a multiplier used in combination with [ModulesCacheWritePeriodSecs](#) to determine how long the cache of recently observed md5 values are held in memory. For example, if the defaults are used, the timeout will be $4 \times 30 = 120$ seconds.

A cache of recently observed md5 values is kept in case a partition rolls over, so that Cb Response can send the recently seen values to the new partition to make sure nothing was missed. This cache is only restricted by time and is a multiple of the write frequency. The two parameters allow the user to choose between memory limits and time limits for controlling the cache.

Note: Large timeout values can have a detrimental impact on memory.

Change Note: New in version 6.1.

ForceComprehensiveSearch

Default: `True`

Determines whether to run “comprehensive” search automatically when needed, without confirming with the user.

Note: The console UI will still prompt for confirmation of the comprehensive search if the search runs against a legacy 5.x core (that is, a Solr database built in 5.2 that is replaced by upgrading to 6.x).

Change Note: New in version 6.1.

DefaultSolrTimeoutS

Default: 60

Solr timeout (in seconds) for all UI and API queries.

Change Note: New in version 6.1.

RebuildEventSuggestersMins

Default: 30

Frequency (in minutes) for rebuilding event suggesters.

Change Note: New in version 6.1.

RebuildEventSuggestersTimeoutS

Default: 120

Timeout (in seconds) for event suggesters rebuilds.

Change Note: New in version 6.1.

RebuildModuleSuggestersMins

Default: 30

Frequency (in minutes) for rebuilding module suggesters.

Change Note: New in version 6.1.

RebuildModuleSuggestersTimeoutS

Default: 120

Timeout (in seconds) for module suggesters rebuilds.

Change Note: New in version 6.1.

WatchlistSearchTimeoutS

Default: 120

Solr timeout (in seconds) for all feed/watchlist queries.

Change Note: New in version 6.1.

CbDiagTmpDir

Default: /tmp

Location to write cdiags data. You can choose a different directory if you prefer not to add these diagnostic files to /tmp. For example: `CbDiagTmpDir=/var/cb/data`

Change Note: New in version 6.2.1. This setting is not included in the default cb.conf file.

Chapter 8

RabbitMQ (cb-rabbitmq service) Settings

This section describes RabbitMQ (cb-rabbitmq service) settings in the `cb.conf` file.

Settings in this Chapter

RabbitMQPort	71
RabbitMQManagementPort	71
RabbitMQDistPort	71
RabbitMQEpmcPort	71
RabbitMQUser	71
RabbitMQPassword	71
RabbitMQDataPath	72
RabbitMQPidFile	72

RabbitMQPort

Default: 5004

The RabbitMQ AMQP Broker listening port (TCP).

RabbitMQManagementPort

Default: 5005

The RabbitMQ Management HTTP API listening port (TCP). If this property value is updated, it must also be changed in the `rabbitmq_management/listener` property in `/etc/cb/rabbitmq/rabbitmq.config` file.

RabbitMQDistPort

Default: 25004

The RabbitMQ Distributed Node Port (TCP). If this property value is updated, it must also be changed in the `kernel/inet_dist_listen_(min/max)` properties in the `/etc/cb/rabbitmq/rabbitmq.config` file

RabbitMQEpmcPort

Default: 4369

The Erlang Port Mapper Daemon port (TCP). This port is used by the underlying runtime that RabbitMQ is based on. It is needed for distributed node discovery in clustered environments.

RabbitMQUser

Default: `cb`

The user account for broker authentication.

RabbitMQPassword

Default: (no default)

Sets the password to use for authentication with the broker. If the RabbitMQ HTTP Management Console is enabled, use the credentials in this file to gain initial access to the admin interface. From there, you can create a different user account with a set of credentials that are easier to manage.

RabbitMQDataPath

Default: `/var/cb/data/rabbitmq`

The data directory to which persistent queues will be written.

RabbitMQPidFile

Default: `/var/run/cb/rabbitmq/pid`

The RabbitMQ service PID file path.

Chapter 9

Cb Live Response and Banning Settings

This section describes Cb Live Response (cb-liveresponse service) and hash banning settings in the `cb.conf` file.

Settings in this Chapter

CbLREnabled.....	75
CbLRCheckinTimeout.....	75
CbLRSessionTimeout.....	75
CbLRSensorWaitTimeout.....	75
CbLRMaxStoreSizeMB.....	75
CbLrDefaultSessionTTLDays.....	75
CbLRMaxActiveSessions.....	75
BanningEnabled.....	76

CbLREnabled

Default: `False`

Enable/Disable Live Response functionality. Disabled by default.

CbLRCheckinTimeout

Default: `1200`

Timeout (in seconds) to wait for a sensor to initialize a Live Response session. The default is `1200` (20 minutes). When the time expires, the cblr session is discarded.

CbLRSessionTimeout

Default: `300`

The maximum time (in seconds) for a sensor to wait for a Live Response command to complete. The default is `300` (5 minutes).

CbLRSensorWaitTimeout

Default: `120`

The long poll duration (in seconds) of the sensor command query before returning a keepalive message to keep the Live Response session open.

CbLRMaxStoreSizeMB

Default: `0`

Maximum disk space (in megabytes) usable by Live Response functionality. When exceeded, all requests that could possibly require more disk space will be rejected. A value of `0` indicates unlimited disk space.

CbLrDefaultSessionTTLDays

Default: `7`

Default time-to-live (in days) for session data. Unless overwritten via the API, data from a Live Response session is deleted the specified number of days after the session closes.

CbLRMaxActiveSessions

Default: `10`

The maximum number of concurrent, active Live Response sessions allowed. Requests to create more than the specified number of sessions will be rejected.

BanningEnabled

Default: `True`

Enable/Disable banning functionality. If this is disabled, the banning of MD5 hashes via the UI or API will not be allowed by any user.

Chapter 10

Event Actions Configuration Settings

This section describes the event actions settings in the `cb.conf` file.

Settings in this Chapter

AlertWriterSeverityCalcConfig.....	79
--	--------------------

AlertWriterSeverityCalcConfig

Default: (no default)

If this parameter is present, it specifies a path to the configuration file for the alert severity calculation algorithm. If the file does not exist, one will be written out and populated with the Cb Response server's default settings.

Chapter 11

Service Init Script Settings

This section describes the service init script settings in the `cb.conf` file.

Settings in this Chapter

ProfileSvcInitBash	81
--	----

ProfileSvcInitBash

Default: 0

Set this option to 1 if troubleshooting slow cb-enterprise services startup or shutdown. When enabled, it uses the bash shell's built-in `set -x` command in conjunction with a custom PS4 environment variable to report each command with its execution time in the `/var/log/cb/services/cb-enterprise.timing.out` file.

Important: Due to certain bash limitations, this command redirects all standard error data to the log file. As a result, if anything else also writes to `stderr`, there might be some unexpected text output while starting/stopping services.

Chapter 12

Statistics Reporting Settings

This section describes the statistics reporting settings in the `cb.conf` file.

Important: Consult [Carbon Black Technical Support](#) before attempting to change these parameters.

Cb Response server supports several methods of sharing runtime statistics information:

- Statistics that are viewable via the `/usr/share/cb/cbstats` command can also be sent to graphite by using the `--graphite` option.
- Some statistics collected by Java services use Coda Hale's Metrics package. These statistics are not accessible from `cbstats` but can be enabled to sent directly to graphite in this section

Settings in this Chapter

GraphiteHost	83
GraphiteStatsUploadPort	83
GraphitePrefix	83

GraphiteHost

Default: `localhost`

Sets the host name of the graphite server to which runtime statistics should be sent.

GraphiteStatsUploadPort

Default: `2003`

Sets the graphite server port to which statistics should be sent.

GraphitePrefix

Default: `<Hostname of local host>`

Sets the metrics namespace prefix that should be used when uploading statistics to graphite. By default, if this property is not specified, the prefix will be the hostname of the local machine.

Chapter 13

Service Reporting Settings

This chapter describes the service reporting settings in the `cb.conf` file. These settings are set up in this format:

```
<SvcName><ReporterType><Prop>
```

where ...

`<SvcName>` is one of the following:

- `CbSolr` – The `cb-solr` service configuration.
- `CbDatastore` – The `cb-datastore` service configuration.

and ...

`<ReporterType>` is one of the following:

- `GraphiteReporter` – Data is sent over network sockets to a graphite server identified by `GraphiteHost/GraphiteStatsUploadPort` above properties.
- `LogReporter` – Data is written to the logback logging framework's `com.carbonblack.cbfs.Metrics` logger object. By default, this output will appear in `debug.log` (if INFO level logging is enabled). Also, the `logback.conf.xml` file can be modified so that metrics are written to a separate file.

and ...

`<Prop>` is one of the following:

- `Enabled` – Indicates whether or not particular reporter is enabled.
- `Interval` – Specifies in seconds how often the data is reported.
- `Filter` – An optional comma separate string of filter regular expressions that can be used to limit which metrics are to be reported. For example `.*jvm.*` will report all metrics that have 'jvm' somewhere in the name whereas `jvm\.*` will report all metrics that begin specifically with "jvm." as the first hierarchy element. If this property is not specified, all metrics are reported.

Use the component definitions above as a guide to the function of the parameters listed here.

Settings in this Chapter

CbSolrStatsGraphiteReporterEnabled	85
CbSolrStatsGraphiteReporterInterval	85
CbSolrStatsGraphiteReporterFilter	85
CbSolrStatsLogReporterEnabled	85
CbSolrStatsLogReporterInterval	85
CbSolrStatsLogReporterFilter	85
CbDatastoreStatsGraphiteReporterEnabled	85
CbDatastoreStatsGraphiteReporterInterval	85
CbDatastoreStatsGraphiteReporterFilter	85
CbDatastoreStatsLogReporterEnabled	85
CbDatastoreStatsLogReporterInterval	86
CbDatastoreStatsLogReporterFilter	86

CbSolrStatsGraphiteReporterEnabled

Default: `False`

CbSolrStatsGraphiteReporterInterval

Default: `60`

CbSolrStatsGraphiteReporterFilter

Default: (no default)

CbSolrStatsLogReporterEnabled

Default: `False`

CbSolrStatsLogReporterInterval

Default: `60`

CbSolrStatsLogReporterFilter

Default: (no default)

CbDatastoreStatsGraphiteReporterEnabled

Default: `False`

CbDatastoreStatsGraphiteReporterInterval

Default: `60`

CbDatastoreStatsGraphiteReporterFilter

Default: (no default)

CbDatastoreStatsLogReporterEnabled

Default: `False`

CbDatastoreStatsLogReporterInterval

Default: 60

CbDatastoreStatsLogReporterFilter

Default: (no default)

Chapter 14

Cb Threat Intel Settings

This section describes the Cb Threat Intel settings in the `cb.conf` file.

Settings in this Chapter

FeatureThirdPartySharing	89
TicUrl	89

FeatureThirdPartySharing

Default: `False`

This setting relates to 3rd Party File Analysis. It allows administrators to choose whether or not to share full binaries with Carbon Black analysis partners in the **Endpoint Activity Sharing** window. Administrators can also share this data at the sensor group level within the **Sharing** tab of the **Create/Edit Group Settings** windows. If this is set to `False`, the administrator will not see the Cb Inspection options.

Important: Consult [Carbon Black Support](#) before attempting to change this parameter.

TicUrl

The address of the Cb Threat Intel server.

Chapter 15

Syslog Template Settings

This section describes the syslog template settings in the `cb.conf` file. The default template files are located in `/usr/share/cb/syslog_templates`.

For each of these options, if a value is not specified, the system default template is used. Use the `cbsyslog` tool to retrieve the system default template.

Settings in this Chapter

WatchlistSyslogTemplateProcess	91
WatchlistSyslogTemplateBinary	91
BinaryInfoSyslogTemplateObserved	91
BinaryInfoSyslogTemplateGroupObserved	91
BinaryInfoSyslogTemplateHostObserved	91

WatchlistSyslogTemplateProcess

Sets the path to the Jinja2 Template that is used to format process watchlist hits before sending the data to syslog. Use `/usr/share/cb/cbsyslog` to modify and test this path.

For information about templates and syslog, see “Syslog Output for Cb Response Events,” in the *Carbon Black Response User Guide*.

WatchlistSyslogTemplateBinary

Sets the path to the Jinja2 Template that is used to format binary watchlist hits before sending the data to syslog. Use `/usr/share/cb/cbsyslog` to modify and test this path.

For information about templates and syslog, see “Syslog Output for Cb Response Events,” in the *Carbon Black Response User Guide*.

BinaryInfoSyslogTemplateObserved

Sets the path to the Jinja2 Template that is used to format binary information events before sending the data to syslog. These events are created the first time a binary, as identified by its MD5 hash value, is observed on any sensor that is associated with the Cb Response server

For more information, see the appendices “Syslog Output for Cb Response Events,” and “Cb Response APIs,” in the *Carbon Black Response User Guide*.

BinaryInfoSyslogTemplateGroupObserved

Sets the path to the Jinja2 Template that is used to format binary information for new sensor group events before sending the data to syslog. These events are created the first time a binary, as identified by its MD5 hash value, is observed by a new sensor group.

For more information, see the appendices, “Syslog Output for Cb Response Events,” and “Cb Response APIs,” in the *Carbon Black Response User Guide*.

BinaryInfoSyslogTemplateHostObserved

Sets the path to the Jinja2 Template that is used to format binary information for new host events before sending the data to syslog. These events are created the first time a binary, as identified by its MD5 hash value, is observed by a new sensor.

For more information, see the appendices “Syslog Output for Cb Response Events,” and “Cb Response APIs,” in the *Carbon Black Response User Guide*.

Chapter 16

Third-Party Authentication

This section describes the third-party authentication settings in the `cb.conf` file.

Settings in this Chapter

TwoFactorAuthCallbackModulePath	93
CbStatsDaemon	93
SolrDiskType	93
NetfilterConntrackMax	93

TwoFactorAuthCallbackModulePath

This setting enables two-factor authentication on your Cb Response server using the Duo plugin.

To enable two-factor authentication, you must perform additional configuration steps, which are discussed in “Integrating with Third-Party Authentication” in the *Carbon Black Response User Guide*.

Uncomment the `TwoFactorAuthCallbackModulePath` setting in the `cb.conf` configuration file as follows:

```
# Two factor authentication plugin path
TwoFactorAuthCallbackModulePath=/usr/share/cb/plugins/duo/
duo_2fa_auth_callback.py
```

CbStatsDaemon

Default: `False`

Run and monitor `cb-stats` metrics collection daemon. This is a supplemental tool that queries the Cb Response statistics framework and records data to a file or graphite. See `/usr/share/cb/setup/cbstats.conf.template`.

Change Note: New in version 6.1.

SolrDiskType

Default: `auto`

Indicates the disk type (spinning/solid state) for solr cores. The values are:

- `auto` – autodetect (default)
- `hdd` – spinning disk
- `ssd` – solid state

Change Note: New in version 6.1.

NetfilterConntrackMax

Default: `262144`

If this is non-zero, `cbstartup` will update the value of `/proc/sys/net/netfilter/nf_conntrack_max` on the server's system.

Change Note: New in version 6.1.