



Zenoss Core Release Notes

Release 5.1.8

Zenoss, Inc.

www.zenoss.com

Zenoss Core Release Notes

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About this document

Zenoss Core Release Notes contains important information about minor and micro releases of Zenoss Core.

For information about Control Center, refer to the *Control Center Release Notes*.

This document provides information about the following releases of Zenoss Core:

Date	Release
17 October 2016	5.1.8
20 September 2016	5.1.7
Internal Release Only	5.1.6
25 July 2016	5.1.5
29 June 2016	5.1.4
25 May 2016	5.1.3
27 April 2016	5.1.2
29 Feb 2016	5.1.1

Supported operating environments

The client operating systems and Web browser combinations supported for this release:

Table 1: Supported client operating systems and browsers

Client OS	Supported Browsers
Windows 7 and 8.1	Internet Explorer 11 (enterprise mode is supported)
	Internet Explorer 10
	Firefox 30 and above
	Chrome 30 and above
Windows Server 2012 R2	Firefox 30
	Chrome 36
Macintosh OS/X 10.9	Firefox 30 and above
	Chrome 36 and above
Ubuntu 14.04 LTS	Firefox 30 and above
	Chrome 37 and above
Red Hat Enterprise Linux 6.5, CentOS 6.5	Firefox 30 and above
	Chrome 37 and above

Note

- All browsers must have Adobe® Flash® Player 11 installed, or a more recent version.
- Compatibility mode is not supported in Internet Explorer.

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Zenoss Core 5.1.8

New features

There is a change in the way upgrades to Zenoss Core 5.1.8 are performed. Perform the following steps before you pull the 5.1.8 image from Docker Hub. This information is also contained in the "Clear checksums from Docker images" topic in the *Zenoss Core Upgrade Guide*:

- 1 Upgrade Control Center according to the normal instructions in the *Zenoss Core Upgrade Guide*.
- 2 Stop Zenoss Core.
- 3 Determine whether the image ID for Zope has the `latest` tag.

```
serviced service list zope | grep ImageID
```

- If the result includes `:latest` at the end of the string, proceed to the next step.
- If the result does not include `:latest` at the end of the string, add it to the service definition.

```
serviced service edit zope
```

- 4 Delete the checksums from all Docker images:

```
for LAYER in $(ls /var/lib/docker/graph)
do
  echo "y" | rm /var/lib/docker/graph/$LAYER/checksum
done
```

- 5 Continue upgrading Zenoss Core according to the instructions in the *Zenoss Core Upgrade Guide*.

Fixed issues

Table 2: Release 5.1.8

ID	Description
ZEN-19522	Users, other than Admin, cannot update triggers.
ZEN-22955	Edit Data Source screen usability issue.
ZEN-23375	Maintenance window improvement: change production state on multiple devices in a limited time.

ID	Description
ZEN-23655	Using !! in an event console filter breaks event manipulation.
ZEN-24039	Users with roles below ZenManager cannot create new dashboards or add portlets to existing dashboards.
ZEN-24054	Trigger and notifications do not honor permissions properly. Administrators cannot delegate tasks to users.
ZEN-24522	Cannot close or acknowledge events if !! is used in the event filter expression.
ZEN-24564	Maintenance window performance improvement.
ZEN-24721	Zope shells cause zope/0 health checks to fail.
ZEN-24722	Event message from zensyslog is limited to 256 characters.
ZEN-25408	Maintenance window UI does not recognize custom production states.

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Zenoss Core 5.1.7

There are no new features in this release.

Fixed issues

Table 3: Release 5.1.7

ID	Description
ZEN-22769	Monitoring does not work after restarting Linux devices.
ZEN-23374	RHEL/CentOS 7 connections fail with SSH timeout when <code>zSshConcurrentSessions</code> is set to more than 1.
ZEN-23392	Support for OpenSSH 7.0 (1.7)+ targets.
ZEN-23446	<code>zenmodeler</code> finds devices in a case-insensitive way.
ZEN-23544	ZenPack install can create duplicate mappings.
ZEN-23612	Device Chart portlet does not render properly.
ZEN-23774	Session cookies are created without HTTPOnly flag set.
ZEN-23867	The <code>zproxy_answering</code> healthcheck can give false positives.
ZEN-24108	Disabled boolean fields are difficult to read in component details.
ZEN-24173	Deep linking does not work when configured with paginated views.
ZEN-24235	Multigraph reports display the datapoint name as the graph name.
ZEN-24271	When attempting to export some traps to CSV, the export completes but cannot be read in any viewer due to the number of columns exceeding the limits of the viewer.
ZEN-24274	Having community/custom ZenPacks can break an upgrade.
ZEN-24291	When upgrading, the migration script generates an invalid <code>zproxy-nginx.conf</code> .
ZEN-24298	Graph shows "No data available" after 20 minutes.
ZEN-24331	While modeling large vSphere environments, where a single datastore was connected to thousands of VMs, zenhub would consume a large quantity of CPU for 10+ seconds for each new VM indexed.
ZEN-24395	HBase region server logs are not captured in Logstash.

ID	Description
ZEN-24454	After locking a dashboard, updates continue to occur.
ZEN-24461	Flare message <code>KeyError: 'uid'</code> displayed after editing the dashboard.
ZEN-24644	If OpenTSDB tables are deleted, they will never get recreated in an upgraded environment.
ZEN-24666	Under certain conditions, <code>zencommand</code> will not reestablish connection after a connection is lost.
ZEN-24708	Some graphs, like throughput, always show zeros if data being gathered is 64-bit.

Zenoss Core 5.1.6

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This was an internal release only.

Zenoss Core 5.1.5

There are no new features in this release.

Fixed issues

Table 4: Fixed issues in Zenoss Core 5.1.5

ID	Description
ZEN-5940	ZenOperator role allows you to access production state, but it does not allow the user to save changes.
ZEN-22175	The Zenmodeler service does not publish metrics into Control Center.
ZEN-22732	Cisco interfaces without <code>ifindex</code> entries cause modeling to fail.
ZEN-22889	Zenossdbpack tries to pack <code>zodb_session</code> , which is no longer valid.
ZEN-22958	If the database passwords for <code>mariadb-events/model</code> are updated, several healthchecks will fail permanently despite the system working correctly.
ZEN-23033	User with no global role can see devices on the dashboard.
ZEN-23086	Zenoss Core instances that have been upgraded from version 5.0.x will not have tags on the image names in their service definitions. This causes <code>shell</code> and <code>run</code> commands to force a pull of the image, which will retrieve every tag from the registry; therefore, on an upgraded system, starting a <code>shell</code> or <code>run</code> command is slower than in a clean install.
ZEN-23150	Update SMTP setup page to reference email notifications.
ZEN-23446	Zenmodeler searches for devices in a case-insensitive manner.
ZEN-23456	Upgrade to PythonCollector 1.8.1.
ZEN-23465	Disable <code>zproxy_answering</code> healthcheck since this healthcheck can display false positives.
ZEN-23545	Zenhub main process consumes 100% CPU if workers are busy.
ZEN-23733	Deleting the default dashboard may lead to every user getting a white screen.
ZEN-23745	With the MultiRealm ZenPack installed, sending an even through the UI fails to link the device context to the event.
ZEN-23755	XSS vulnerability in Discover Networks through the Community string.

ID	Description
ZEN-23806	Zenoss Core MetricConsumer is leaking session objects (memory/heap)
ZEN-23807	Zenoss Core CentralQuery is leaking session objects (memory/heap)
ZEN-23841	Enabling predictive thresholds on a lot of metrics causes <code>zauth</code> to crash.
ZEN-23843	Zenhub logs to <code>zauth</code> too frequently.
ZEN-23847	Users are unable to open and view the File System Monitoring template.
ZEN-23872	<code>zauth</code> is overloaded and becomes unresponsive if too many central queries and metric consumers are running.
ZEN-23992	The All Monitored Components report causes high CPU and memory usage.
ZEN-24038	Upgrade LinuxMonitor to 2.0.2
ZEN-24059	Event Console is not displaying events.
ZEN-24074	Restart CentralQuery automatically if an OutOfMemory error is encountered.
ZEN-24095	Increase the number of concurrent memcached connections before throttling requests.

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Zenoss Core 5.1.4

New features

- `serviced volume status` command

This release introduces a new `serviced volume status` command that provides detailed information on the volume located at `/opt/serviced/var/volumes`. You can get metrics on the thin pool as well as application data on the filesystem usage, virtual device size, unallocated space, and pool space allocated to virtual devices and snapshots.

- Public endpoints

Another feature available is the ability to create public endpoints for access to the Zenoss Core web server. See the *Zenoss Core Configuration Guide* for instructions on creating port public endpoints and virtual host public endpoints.

Fixed issues

Table 5: Release 5.1.4

ID	Description
ZEN-19709	Device status is unknown under <code>/Ping</code>
ZEN-21533	Impossible to set an alternate <code>manageIp</code> for <code>IpServices</code> components
ZEN-21835	Notification traps always sent as <code>v2</code>
ZEN-22955	Usability issue with <code>Test Datasource</code> timeout
ZEN-22960	Add an ID to identify the instance when using multiple hub instances
ZEN-22961	<code>Datasource Test</code> against a device always tests <code>localhost</code>
ZEN-23021	Creating a port endpoint and disabling <code>https</code> in <code>zope</code> breaks graphs
ZEN-23084	<code>Zenossdbpack</code> needs further optimization since it dies with OOM error in large environments
ZEN-23208	<code>Zope</code> health checks give false impression of instability
ZEN-23298	LDAP authenticator doesn't support group to multiple roles
ZEN-23302	ZEP Warning - Failed processing message

ID	Description
ZEN-23352	Import of triggers from version 4.2.4 to 5.1.2 is not working
ZEN-23402	Control Center page displays a flare when Control Center is on a non-443 port
ZEN-23457	Possible XSS vulnerability in UI code
ZEN-23487	Global Operations Manager not compatible with content-type strict verification changes
ZEN-23584	Update to LinuxMonitor 2.x
ZEN-23643	ISO installation fails
ZEN-23669	Improve storage monitoring in Control Center ZenPack
ZEN-23692	After upgrading to version 5.1.4, Control Center device is not available
ZEN-23699	Service Impact
ZEN-23740	Changed values in zeneventserver configuration not honored in version 5.0.9
ZEN-23758	Make the component grid page size configurable
ZEN-23759	Marshalling device components makes a ZEP call per component

Notes and workarounds

CentOS kernel defect affects volume status feature

Due to an issue in the CentOS kernel (https://bugzilla.redhat.com/show_bug.cgi?id=1286500), the serviced `volume status` feature that was introduced in Control Center 1.1.6 has been changed to not report `storage.device.allocated` and `storage.snapshot.allocated`. When the CentOS kernel 3.10.0-366.el7 is released, the full functionality of this feature will be restored.

CentOS 7.2 has fixed a defect that prevents fstrim from working (ZEN-23525)

There was a defect in CentOS 7.2 that prevented `fstrim` from working. In kernel version 3.10.0-327 or higher, `fstrim` now works. Ensure that your system is running this kernel version or higher. To check the kernel version, as the `root` user, execute the following command: `uname -r`

If you need to update your kernel, execute `yum -y update` or `yum -y update kernel`

Zenoss Core 5.1.3

There are no new features in this release.

Fixed issues

Table 6: Release 5.1.3

ID	Description
ZEN-14671	ValueChange threshold alerts on a change from None to 0
ZEN-21545	Cannot get device state to change from Unknown
ZEN-22795	Commands run against a device via the UI are run on master, not on the collector host
ZEN-22869	Service definitions have versions in the startup and other paths
ZEN-22902	Appliances need nc utility
ZEN-22943	zendisc changes the production state of existing devices
ZEN-22952	A user with restricted access is unable to bulk-close events
ZEN-22953	zCommandPassword text box on the Add Device dialog allows autocomplete
ZEN-22954	After bulk-adding hosts, Zenoss Core will not add any further jobs
ZEN-22963	UPTIME python regular express is not matching on SUSE/Novell Linux uptime string
ZEN-23033	User with no global role can see devices in the dashboard that should be restricted
ZEN-23054	zenosdbpack is not automatically run anymore
ZEN-23088	Opentsdb image is not changed during upgrade
ZEN-23199	Central query becomes unresponsive with too many connections
ZEN-23221	snmpwalk user command does not pass in correct SNMP v3 arguments
ZEN-23223	Pausing RabbitMQ may not be working properly
ZEN-23247	Upgrade scripts contain the wrong image tag reference
ZEN-23284	Beaker cookies should be secure after upgrade from version 5.1.2

Notes and workarounds

Upgrade procedures

To upgrade to this release, first upgrade Control Center, and then upgrade Zenoss Core. The procedures are in separate parts of the *Zenoss Core Upgrade Guide*.

Zenoss Core 5.1.2

There are no new features in this release.

Fixed issues

Table 7: Release 5.1.2

ID	Description
ZEN-18100	Cross-site scripting from exposed helper methods
ZEN-19004	zminion stuck waiting for response for zminion-return
ZEN-19240	Ensure that SSL certificates use SHA-256
ZEN-19573	Remote collector zentrap stops processing traps properly if Zenoss Core is restarted.
ZEN-21716	zeneventd cannot access zep/zeneventserver directly for transforms
ZEN-22160	Incorrect SNMP v3 parameters cause traceback when modeling
ZEN-22239	User cannot create a maintenance window despite having ZenManager privileges
ZEN-22248	LDAP flare appears when use has no Manager DN or password
ZEN-22289	User with ZenManager role is unable to modify notification subscribers
ZEN-22429	Hpux ZenPack needs to be at version 2.0.0 by default
ZEN-22437	Unable to assign a dashboard to a local user group
ZEN-22792	zenbatchdump fails on deployments that have distributed collectors
ZEN-22981	TTL for OpenTSDB is not being set to 90 days by default

Zenoss Core 5.1.1

New features

Control Center storage

- The storage underlying Control Center has changed from btrfs to DeviceMapper. Migration to DeviceMapper is required as part of the upgrade process, and migration tools are provided. Follow the instructions in the *Zenoss Core Upgrade Guide* when migrating from Control Center 1.0.x to Control Center 1.1.x.

Supported upgrade paths

- Migration to Control Center 1.1.x is supported from Control Center 1.0.6 or later. If you are currently running an earlier version of Control Center, it is recommended that you migrate first to Control Center 1.0.9 or Control Center 1.0.10. Similarly, migration to Zenoss Core 5.1.3 is supported from Zenoss Core 5.0.6 or later. If you are currently running an earlier version of Zenoss Core, it is recommended that you first upgrade to Zenoss Core 5.0.6.

Control Center backup enhancements

- Control Center will now briefly pause services to snapshot them, then return the system to a fully functional state while performing the backup in the background. This means that services can be deleted or altered while the backup continues.

Single-Host to Multi-Host migration enhancements

- Migrating from a single-host to multi-host install now requires only that the new host(s) be configured and added to the Resource Pool in the Control Center master UI. Configuration changes and other steps formerly required in earlier Control Center releases are no longer necessary.

Serviced storage tool

- A new tool (`serviced-storage`) is provided to greatly streamline working with Control Center storage, including support for tasks such as creating volumes, creating and resizing thin pools, initializing DeviceMapper and converting from btrfs to DeviceMapper. Installation and Upgrade instructions make use of the `serviced-storage` tool, please consult the *Zenoss Core Installation Guide* and *Zenoss Core Upgrade Guide* for details.

Snapshot tagging

- Serviced snapshots can now be tagged with a name. Important to note is that the Time To Live (TTL) does not apply to tagged snapshots, meaning they will not be deleted according to the TTL schedule.

Clustered Zookeeper

- Multi-host systems can utilize a Zookeeper cluster for improved performance and reliability.

Public endpoints by port number

- Public Endpoints can be vhosts, accessible by host name, or ports, accessible by `ip:port` or `hostname:port`. Specifying by port number removes the need to update DNS entries or `/etc/hosts` files.

Zenoss inspector

- A new script is available to simplify gathering of Control Center logs and configurations, when needed for support cases.

SNMP trap filtering

- `zentrap` supports SNMP trap filtering. For details on the filter definition, see the `/opt/zenoss/etc/zentrap.filter.conf` file in the `zentrap` service definition. For details on how to enable this feature, see the KB article [How to setup a filter for SNMP Traps at the collector level \(zentrap\) in version 5.1.x](#).

Removal of Ubuntu support

- Ubuntu is no longer a supported platform for Zenoss Core 5.1.1 or higher.

Certain ZenPacks are no longer automatically installed

- The following ZenPacks that were previously automatically installed with Zenoss Core are no longer automatically installed and must be installed manually. If you are upgrading from version 5.0.x, these ZenPacks will remain, but will not automatically be updated.
 - DellMonitor
 - DigMonitor
 - FTPMonitor
 - HPMonitor
 - LDAPMonitor
 - ZenJMX
 - WBEM

Updated command for ZenPack installation

- The command for installing a ZenPack has changed from previous versions. The command to install a ZenPack is now: `serviced service run zope zenpack-manager install <ZenPack>`.

Fixed issues

Table 8: Release 5.1.1

ID	Description
ZEN-3892	Zenoss Core does not attempt to retry the sending of email notifications if those notifications fail to send the first time
ZEN-8209	Unable to unset zProperties that are selected from a drop-down at the root level
ZEN-14768	Attempting to navigate to nodes on the Network Map results in blank screens
ZEN-17140	The Device Class filter in the Event console is broken
ZEN-17362	Event Class transforms missing formatting on event class and mapping pages
ZEN-17479	RabbitMQ prefetch count is not honored in Global Operations Manager 5.x
ZEN-17587	Upgrading Zenoss Core does not update the version displayed in Control Center
ZEN-17735	Some tooltips prevent the user from clicking the link for which the tooltip is displayed
ZEN-17836	The Network Topology report is not working
ZEN-17983	The Device Details screen is broken if the user's profile is configured for certain time zones.
ZEN-18095	Some stack traces shown on Zenoss Core error pages contain internal URLs and other sensitive information
ZEN-18839	MultiRealmIP ZenPack causes device overview screens to have javascript errors
ZEN-19011	Some graphs fail to render if the user's computer is set to certain time zones
ZEN-19658	The Query Rate graph is missing for the Central Query service in the Control Center console inside Zenoss Core
ZEN-19664	Control Center is not modeled correctly in Service Impact
ZEN-19869	InvocationTargetException in MetricConsumer, requiring a restart of the MetricConsumer service
ZEN-19956	MultiGraph reports are not working
ZEN-20071	Zookeeper transaction logs are not being automatically rotated
ZEN-20103	Control Center health checks for Redis are timing out
ZEN-20108	SNPP does not work in Zenoss Core 5.0.x
ZEN-20159	The Production State and Priority Option menus are not sorted correctly
ZEN-20278	Zookeeper transaction logs are not cleaned up automatically
ZEN-20291	Standalone graph links cannot be generated for graphs with many series
ZEN-20374	MetricShipper logs missing information necessary for troubleshooting
ZEN-20415	Logs from "zminion" processes are not captured in Control Center
ZEN-20494	Central Query logs unknown metric errors too frequently
ZEN-20499	SNMP device statuses for Linux servers no longer use the /Status/Ping event class
ZEN-20563	Unable to specify ESX-provided eventClassKeys in mapping

ID	Description
ZEN-20596	Using the Open in new tab button on any graph causes an error flare message in the newly opened tab
ZEN-20640	Zenmail does not work
ZEN-20752	Zenbatchload does not install properly on additional collectors
ZEN-20834	When adding a collector in the the Control Center section of Zenoss Core, the Resource Pool drop-down shows an error
ZEN-20838	The volume of INFO log messages is too high and causes unnecessary I/O load
ZEN-20903	Global Operations Manager does not appear correctly in the Zenoss Core application inside Control Center
ZEN-21061	When using <code>dc-admin</code> , creating a collector with an underscore in the collector's name returns an error
ZEN-21087	Zenmail is failing on Zenoss Core 5.0.x
ZEN-21097	Users logged in with the ZenUser role have access to features they shouldn't have
ZEN-21101	Poor Zenoss Core UI performance when logged-in user is part of a large LDAP group
ZEN-21104	Zenpacks reveal sensitive password information in some URLs
ZEN-21134	Performance issue when loading LDAP settings page
ZEN-21141	ZenPop3 is missing as a service in Control Center
ZEN-21143	The Datasource Test button does not use SNMP v3 settings if they are present
ZEN-21245	Device does not come out of maintenance if the effective maintenance window's start date is changed
ZEN-21302	Users with the ZenManager role cannot create triggers or notifications
ZEN-21322	With the MultiRealm zenpack installed, maintenance window events are not linked to devices
ZEN-21392	Data collection with ZenJMX is silently failing, raising no events
ZEN-21546	Deploying multiple collectors in the Control Center tab in Zenoss Core causes the Zenoss Core UI to crash
ZEN-21727	Maintenance sindows use the UTC time zone instead of the time zone set in the user's profile
ZEN-21746	Using the <code>dc-admin</code> utility to delete collectors does not remove the corresponding services in Control Center
ZEN-21893	Users are unable to use the same data points twice on the same graph
ZEN-21916	Tracebacks related to RRDDataSource seen in zenhub log when performing collection
ZEN-21955	MultiGraph reports show incorrect data
ZEN-21956	Min/Max thresholds do not graph properly when both the minimum and maximum thresholds are set
ZEN-22012	CiscoUCS ZenPack takes a long time to upgrade
ZEN-22023	Delta values for threshold evaluation are incorrectly calculated for COUNTER and DERIVE datapoints
ZEN-22029	The ZProxy service logs every connection, unnecessarily filling up Control Center logs

ID	Description
ZEN-22079	Multigraph reports are incorrectly showing the same data for different devices and components

Known issues

Table 9: Release 5.1.1

ID	Description	Status
ZEN-20776	MIBs added via UI have no details	Open
ZEN-21517	User can add an IP service with a duplicate name	Open
ZEN-21731	Event page may not automatically refresh when a new event is manually added	Open
ZEN-21769	After adding a new IP Service, the details page for the new service is empty.	Open
ZEN-21790	Removing a process class from an organizer does not update the number of processes shown for the organizer	Open
ZEN-21824	Network map portlet does not honor selected network	Open
ZEN-21833	High Load trendline is incorrect on Load Avg graph for /Server/Linux	Open
ZEN-21865	Manually changing a device's production state does not update the page until the next refresh	Open
ZEN-21934	Removing an expanded report organizer that contains a child report organizer will result in a UI warning message	Open
ZEN-21935	Dragging a report organizer into another, unexpanded, report organizer will cause the organizer tree in the UI to go blank until the page is refreshed.	Open
ZEN-21957	Several RRD graphpoint types appear in the product but will not render on graphs	Open
ZEN-21971	LDAP searches using custom search parameters do not return correct results	Open
ZEN-21986	User cannot log in using objectGUID	Open
ZEN-22008	Zenpacks list is not displayed when you try to add a custom Organizer user command to a ZenPack	Open
ZEN-22021	Production state does not appear to get set to Maintenance when maintenance window is set for a device class	Open
ZEN-22028	ZenUser may be able to access pages that should be restricted to that user	Open
ZEN-22031	IPv6 devices cannot be added via the Infrastructure page because the Submit button does not enable	Open
ZEN-22063	When migrating to Zenoss Core 5.1.1, a message appears indicating that UpdateZopeThreadsCount has been changed to 1, when in fact it has been reverted to the default (4).	Open
ZEN-22156	Dashboards cannot be assigned to a local user group	Open
ZEN-22171	Manually modeling a device may result in INFO messages that erroneously indicate modeling has failed	Open
ZEN-22215	Using Internet Explorer 11, attempting to filter a Report via the Search box may result in the report being exported rather than filtered	Open

ID	Description	Status
ZEN-22235	Exporting a Software Inventory report does not generate a complete .csv file	Open
ZEN-22243	Reader/Writer fail health checks after upgrading to Zenoss Core 5.1.1	Open

Notes and workarounds

Updated command for ZenPack installation (ZEN-22297)

The command for installing a ZenPack has changed from previous versions. The command to install a ZenPack is now:

```
serviced service run zope zenpack-manager install <ZenPack>
```

A

Limitations, errata, and documentation

This section includes the following information:

- Known limitations of Zenoss Core
- Release-specific documentation errata, if any
- Descriptions of additional documentation

Limitations

The size of the CentralQuery maximum memory allocation pool is set by the *RAMCommitment* variable in the CentralQuery service definition. The default value is 1024MB. Do not change the value to anything less than 1024MB. (ZEN-15907).

Additional information

Beginning with release 5.0.0, all Zenoss Core distributions include PDF versions of the following documents:

- *Zenoss Core Installation Guide*
- *Zenoss Core Upgrade Guide*
- *Zenoss Core Configuration Guide*
- *Zenoss Core Administration Guide*

Likewise, all releases of Control Center include an HTML version of its documentation.

The documentation included in a release is in synch with the release. That is, instead of inserting errata into release notes, document errors are corrected, and the corrected documents are included in the upgrade or patch release. Similarly, when a feature change or addition is included in an upgrade or patch release, the documentation is updated, too.

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