# Zenoss Core Release Notes

Release 5.3.0

Zenoss, Inc.

www.zenoss.com

# Zenoss Core Release Notes

# 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 August 2017 | 5.3.0 |
| 07 July 2017 | 5.2.6 |
| 19 June 2017 | 5.2.5 (withdrawn) |
| 03 May 2017 | 5.2.4 |
| 13 April 2017 | 5.2.3 |
| 27 February 2017 | 5.2.2 |
| 25 January 2017 | 5.2.1 |
| 30 November 2016 | 5.2.0 |

# Supported operating systems and browsers

The following table identifies the supported combinations of client operating systems and web browsers.

| Client OS | Supported Browsers |
|---|---|
| Windows 7 and 8.1 | Internet Explorer 11 (Enterprise mode only; compatibility mode is not supported.) |
| | Internet Explorer 10[*] |
| Windows 10 | Internet Explorer 11 (Enterprise mode only; compatibility mode is not supported.) |
| | Internet Explorer 10[*] |
| | Firefox 50 and later |
| | Chrome 54 and later |
| | Microsoft Edge |
| 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 |

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[*] Support for Internet Explorer 10 will be withdrawn beginning with the next major release of Zenoss Core.

# Supported operating environments

**Zenoss Core, Control Center, and operating systems**

The following table identifies the supported combinations of Zenoss Core, Control Center, and operating system releases.

| Zenoss Core release | Control Center | |
|---|---|---|
| | release | Host OS |
| 5.3.0 | 1.3.0, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.4.0 | RHEL/CentOS 7.1, 7.2, or 7.3 (64-bit) |
| 5.2.0, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.6[*] | 1.2.0, 1.2.1, 1.2.2, 1.2.3, 1.3.0, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.4.0 | RHEL/CentOS 7.1, 7.2, or 7.3 (64-bit) |
| 5.1.9, 5.1.10 | 1.1.9, 1.2.0 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.8 | 1.1.5, 1.1.6, 1.1.7. 1.1.8, 1.1.9 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.7 | 1.1.5, 1.1.6, 1.1.7, 1.1.8 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.6 (internal release only) | (none) | (none) |
| 5.1.4, 5.1.5 | 1.1.5, 1.1.6, 1.1.7 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.3 | 1.1.2, 1.1.3, 1.1.5 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.2 | 1.1.2, 1.1.3 | RHEL/CentOS 7.1 or 7.2 (64-bit) |
| 5.1.1 | 1.1.1, 1.1.2 | RHEL/CentOS 7.1 or 7.2 (64-bit) |

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[*]  Version 5.2.5 was withdrawn.

# Zenoss Core 5.3.0

<span style="float:right">**1**</span>

Beginning with this release, Zenoss has implemented a change to release artifacts. Appliance artifacts remain the preferred option for installations and upgrades. These artifacts are OVA for VMware installations, ISO images for vSphere and bare metal installations, and the ISO updater. If you choose not to use the appliance, a single set of artifacts with all components and prerequisites is available. Use the converged artifacts for all installations and upgrades, whether online with an internet connection, or offline without a connection. When upgrading your system, use the converged artifacts, regardless of whether the original installation was performed online or offline.

New Zenoss Core artifacts are no longer available from Docker Hub, and a Docker Hub account is no longer required to access Zenoss Core images. Download all artifacts via the Zenoss rpm mirror in GitHub.

For Zenoss Core versions earlier than 5.3.0, artifacts will remain available from Docker Hub. Users should carefully review the Install and Upgrade Guides for both Zenoss Core and Control Center for details.

## New features

This release of Zenoss Core provides the following new features.

### Graph enhancements

To better accommodate graphs with many series (for example, component graphs with many components with "All On Same Graph" selected), the upper and lower graph legends are now consolidated into one active legend below the graph. Controls for making a particular series visible or not, formerly available in the upper legend, are now located in the legend below the graph.

Issues with pan, zoom, and shift functions in standalone graphs have been addressed.

### Multi-Graph Report portlet

The Multi-Graph Report portlet displays an existing Multi-Graph Report that was created by using the **Reports** page. You can choose a specific graph group from the multi-graph report and select the time range for the portlet.

# Fixed issues

**Table 1: Release 5.3.0**

| ID | Description |
|---|---|
| ZEN-19495 | Zope containers are failing when modeling from the UI. |
| ZEN-21070 | Graph is essentially blank when selecting the cache hit ratio for a set of DBs to display "All on the same Graph". |
| ZEN-23132 | Unable to add Control Center VIP to the `/Control Center` device class. |
| ZEN-23490 | The Zope `serviced` definition for `zenossdbpack` command does not get updated during upgrade. |
| ZEN-26387 | The `stateChange` field in .csv export in epoch time is inconsistent with other fields. |
| ZEN-26414 | The ControlCenter ZenPack reports incorrect values for services with multiple entries. |
| ZEN-26670 | `zenossdbpack.log` gets logging from unrelated daemons. |
| ZEN-27118 | The `PowerNet-MIB.mib` load is missing two traps by default. |
| ZEN-27228 | The Group total for a group of devices is incorrect. |
| ZEN-27413 | Ping status does not include supressed events. |
| ZEN-27458 | `smidump` introduces zeroes into Zenoss MIBs. |
| ZEN-27612 | ZEN-26581 degrades, rather than enhances MIB management functionality. |
| ZEN-27727 | Special characters in the **Infrastructure > Devices** view can cause `CatalogServiceException` flares. |
| ZEN-27735 | vSphere devices are not filtered with `Down` status on the Infrastructure page. This column is not shown by default. Users can add this column and then will be able to use the filters |
| ZEN-27778 | Invalid TALES expressions cause notifications to fail. |
| ZEN-27826 | Malformed JSON in Events details leads to index/ETL errors. |
| ZEN-27834 | Heartbeat timeouts are not configurable. |
| ZEN-27853 | Negative values displayed on Modeled Devices graph (Advanced/ControlCenter/RemoteCollector/Graphs). |
| ZEN-27925 | Email notifications are concatenating content onto a single line. |
| ZEN-27926 | Unable to expand `localhost` in Control Center view from the UI. |
| ZEN-27928 | Event detail log timestamps do not respect user's time zone. |
| ZEN-27935 | A warning should be issued when collection fails due to an IP address not being configured on a device. |
| ZEN-27940 | Zenoss Core site portal URL point to wrong page. |
| ZEN-28025 | Google map portlet: Viewing parent location generates a site error. |
| ZEN-28055 | `quiesce-rabbitmq.sh` script fails to pause service during backup. |

# Known issues

**Table 2: Release 5.3.0**

| ID | Description | Status |
|---|---|---|
| ZEN-23606 | When modeling Linux servers as a `root` user, you must not require the `root` user to use TTY. See the "Notes and workarounds" section below for detailed instructions. | Open |
| ZEN-27381 | ZenPack dependencies not always installed in correct order during Zenoss Core upgrade. | Open |
| ZEN-27499 | `"ERR Failed to publish events caused by: EOF"` error messages caused by issues with filebeat and Logstash closing connections it thinks are idle. This is a benign error. The ZenPack install and upgrade completes just fine. | Open |
| ZPS-1988 | Upgrade from 5.1.1, 5.1.2, 5.1.3, or 5.1.4 to 5.3.0 with the BigIP ZenPack causes a traceback. The workaround is to remove the BigIP ZenPack and move forward with the upgrade. | Open |

# ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 3: Release 5.3.0**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.6 | 1.2.5 |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.2.6 | 2.2.0 |
| ZenPacks.zenoss.Microsoft.Windows | 2.7.8 | 2.7.0 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.9 | 3.0.7 |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.10.1 | 1.9.0 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |
| ZenPacks.zenoss.ZenPackLib | 2.0.6 | 2.0.5 |

# Notes and workarounds

### ZEN-27866: Loading MIBs change

Zenoss Core prevents duplicate OID values in the database, regardless of the MIB module in which the OID exists. When loading a MIB, Zenoss Core compares OID values with data from the source (`zenmib` input file, ZenPack `objects.xml` file, or browser interface), and takes the following action:

- If the OID exists in the same MIB module, it overwrites the OID with data from the source.
- If the OID exists in a different MIB module, it deletes the OID, and then creates the OID as defined in the source.
- If the OID does not exist, it creates the OID as defined in the source.

### ZEN-23606: Using a root user to model Linux devices

The Linux Monitor ZenPack requires the ability to run the `pvs`, `vgs`, `lvs`, `systemctl`, `initctl`, and `service` commands remotely on your Linux server(s) using SSH. By default, these commands are only allowed to be run locally. To remotely run these command, the `root` user must not be required to use TTY.

Perform the following on your Linux server(s):

1  Install the `sudo` package on your server(s).
2  Allow `root` user to execute commands via SSH without a TTY.

   a  Edit the `/etc/sudoers` file.
   b  Find the line containing `root ALL=(ALL) ALL`.
   c  Add the following line underneath it:

```
Defaults:root !requiretty
```

   d  Save the changes and exit.

# Zenoss Core 5.2.6

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## New features

There are no new features in this release.

## Fixed issues

**Table 4: Release 5.2.6**

| ID | Description |
| --- | --- |
| ZEN-14068 | Dynamic view does not fill up available real estate. |
| ZEN-23197 | Update Settings to display "Hostname" instead of "Zenoss Hostname". |
| ZEN-26818 | Timezone is unclear in Event Details. |
| ZEN-27310<br>ZEN-27455 | Service definitions are different from installed and upgraded systems. |
| ZEN-27358 | Incorrect time sent in syslog notification. |
| ZEN-27394 | Systems/Groups/Component Groups need a manual refresh to be visible after creation. |
| ZEN-27446 | Flare message displayed when adding a custom graph that does not have a template. |
| ZEN-27520 | Support Bundle does not accurately pull zope logs. |
| ZEN-27549 | When redis is down, zminion aggressively attempts to reconnect, potentially flooding network with SYN packets. |
| ZEN-27555 | Event Details Only Include Fields with ifIndex Suffix leading to broken transforms. |
| ZEN-27579 | Improved model performance with zodb. |
| ZEN-27589 | Zenhub invalidation workers stop processing. |
| ZEN-27611 | When a device has a state of Down, polling does not occur; however, the Missed_Runs performance metric begins to increment. Stopping polling due to a Down state should not be considered a missed run. |

| ID | Description |
|---|---|
| ZEN-27630 | Filter is unavailable for Device Status column. |
| ZEN-27676 | Improved security around Kibana log access. |
| ZEN-27695 | Manual subscribers are not getting notifications via email. |
| ZEN-27696 | Improved logging of the Metric pipeline, in particular log progress of specified metrics through pipeline. |
| ZEN-27699 | zauth_eventlog constantly reports failed login attempts by zenoss_system. |

## Known issues

**Table 5: Release 5.2.6**

| ID | Description | Status |
|---|---|---|
| ZEN-27381 | ZenPack dependencies not always installed in correct order during Zenoss Core upgrade | Open |

## ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 6: Release 5.2.6**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.5 | Same |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.2.0 | 2.1.3 |
| ZenPacks.zenoss.Microsoft.Windows | 2.7.0 | 2.6.11 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.9.0 | 1.8.2 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |
| ZenPacks.zenoss.ZenPackLib | 2.0.5 | 2.0.4 |

# Zenoss Core 5.2.5

**3**

Zenoss Core 5.2.5 was withdrawn.

# Zenoss Core 5.2.4

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## New features

No new features in this release.

## Fixed issues

**Table 7: Release 5.2.4**

| ID | Description |
|---|---|
| ZEN-23079 | Dependency View takes 5 minutes or more to load. |
| ZEN-24220 | Component graphs show internal ID instead of hostname. |
| ZEN-26930 | Once the device tree contains a minimal set of sub-organizers (Devices, Groups, Systems, Locations), the auto-refresh is slow. While the tree is being retrieved, the entire tree becomes blank and displays a loading message. |
| ZEN-26998 | Graph range for `Yesterday` is actually the last 24 hours. |
| ZEN-27057 | Projected values are not being displayed. |
| ZEN-27094 | Zenoss Core will allow duplicate IPs for a device. |
| ZEN-27096 / ZEN-27291 | When filtering on production state AND sorting other fields on the Infrastructure page, a ProdStateNotSetError flare is displayed. |
| ZEN-27128 | MultiGraph reports display last group name for all graphs. |
| ZEN-27168 | The Device component list in the Zenoss Core UI is not sorted alphabetically. |
| ZEN-27184 | Model Collection Age displays epoch time instead of `"Not Modeled"` for devices that are not modeled. |
| ZEN-27211 / ZEN-27230 / ZEN-27380 | Service definitions should be consistent between fresh and upgraded systems. |
| ZEN-27221 | Unable to ack or close events within the Infrastructure page. |
| ZEN-27276 | OS Process Monitoring (SNMP) can send duplicate events if the component has been removed. |

| ID | Description |
|---|---|
| ZEN-27278 | Uninstalling a ZenPack that has a service results in a traceback error. |
| ZEN-27289 | By default, zauth zserver-threads are set to 10. |
| ZEN-27331 | No event is raised when SNMPv3 modeling fails with a traceback. |
| ZEN-27337 | Graph export file (CSV) does not have any unit of measure. |
| ZEN-27341 | ZenPacks are not always installed in the correct order during Zenoss Core upgrade. |
| ZEN-27347 | When a backup is taken while the system has a large number of DB writes happening, the restore from the backup may result in database corruption. |
| ZEN-27353 | Zenoss toolbox should be included in the product image. |
| ZEN-27361 | In appliance install, an upgrade of Control Center on delegates from version 1.3.0 to 1.3.x does not complete. |
| ZEN-27379 | With component groups containing vSphere pNICs, many will have the same name. the user will not be able to tell which pNIC goes with which host, or which vNIC with which VM. |

# ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 8: Release 5.2.4**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.5 | Same |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.2.0 | 2.1.3 |
| ZenPacks.zenoss.Microsoft.Windows | 2.7.0 | 2.6.11 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.9.0 | 1.8.2 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ZenPackLib | 2.0.5 | 2.0.4 |

# Zenoss Core 5.2.3

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## New features

Zenoss Core 5.2.3 provides the following new features:

- **ZenPacks installation**

  The ZenPack installation process is now greatly streamlined. During ZenPack installation or upgrade, changes to the model often occur. To avoid conflicts, the ZenPack installation process has been enhanced to briefly stop applied data maps in ZenHub and then restart them after installation. For revised ZenPack installation instructions, refer to the *Zenoss Core Administration Guide*.

- **Collection start**

  Getting device configurations from ZenHub on startup delays the start of collection. Implementation of a configuration caching layer shortens this delay. This enhancement enables collectors to start collecting (or continue collecting during restart) with the cached configurations while the new configurations are being loaded.

- **Appliance installation**

  This release provides ISO files for installing the Zenoss Core appliance as a virtual machine managed by Microsoft Hyper-V. There are separate ISO files for the master host and delegates.

- **High-availability deployments**

  Documentation for this release describes how to install, configure, and upgrade Zenoss Core on a high-availability Control Center cluster.

- **Upgrade process checks for sufficient storage space**

  A pre-upgrade check for sufficient DFS volume and metadata space prevents triggering emergency shutdown if space is insufficient. You can increase free storage space and then upgrade, or continue using the installed version of the product.

- **Alternate metric naming convention**

  Use of an alternate metric naming convention improves retrieval speed of metrics (graphing speed) for vSphere instances with thousands of LUNs or virtual machines. For new installations, the metrics for VMs and LUNs use the new naming convention. For upgrades, the metric names remain the same unless you edit the configuration properties to enable them. Note that changing the naming convention causes historical metrics to become inaccessible. For information about how to enable this enhancement, refer to the *Zenoss Core Upgrade Guide*.

# Fixed issues

**Table 9: Release 5.2.3**

| ID | Description |
|---|---|
| ZEN-6972 | Multi-graph reports are unable to show more than 39 entries in edit mode. |
| ZEN-19198 | FileSystem transform fails because evt.eventKey no longer contains the data point name. |
| ZEN-23471 | Date range filtering not working. |
| ZEN-23497 | Provide an option to exclude full device location in graph title. Use to read device names when locations become long. |
| ZEN-23499 | FQDN in multi-graph reports makes graphs difficult to read. |
| ZEN-23822 | When utilizing an event bookmark, only columns currently visible get the filters applied; not all columns specified in the bookmark. |
| ZEN-24504 | Select **EVENTS** > **Event Classes** > **Status** (as an example) and set the pull-down to **Mapping Instances**. The count at the bottom might display incorrect values when navigating. |
| ZEN-24685 | findposkeyerror reports trace backs with the log "AttributeError: 'NoneType' object has no attribute 'getDatabase". |
| ZEN-25471 | Devices can be added to **Component Group** as they are included in search results. |
| ZEN-26037 | Test data source browser interface functionality should test on device's actual collector. |
| ZEN-26380 | **Event View** dashboard portlet does not retain specified columns and filters. |
| ZEN-26449 | A DERIVE type data point is performing like a COUNTER data point in graphs. In particular, when the delta of the current and previous value are negative, the graph displays a spike instead of a drop. |
| ZEN-26522 | IPv6ServiceMap plug-in models services that are localhost-only. |
| ZEN-26530 | When using a Custom Production State and zProdStateThreshold to disable monitoring for a device, the configuration does not take effect immediately. |
| ZEN-26596 | When running an auto discovery on a very large network subnet, the discover job will timeout. |
| ZEN-26637 | `zenmodeler` logging 'Scan time' of modeling immediately after modeling starts, resulting in inaccurate logging of modeling times. |
| ZEN-26645 | `zeneventd` logging duplicate entries. |
| ZEN-26673 | When a user with role ZenManager adds a device and a component group to a new user as an Administered Object, the new user is unable to add components to the group. |
| ZEN-26674 | As a user with permissions only to a component group, clicking on a component from that group results in a redirect to the login prompt and resulting login will fail. |
| ZEN-26739 | Unable to selectively adjust zFileSystemSizeOffset based on filesystem type. For example: Ext4 filesystems have five percent reserves and the product must take that into account. |
| ZEN-26741 | When selecting **All on Same Graph** in Component Graphs, the legend will contain the device ID instead of the title, component ID instead of the title, GraphPoint legend is repeated, and device is included on each legend entry even though it is the same for all. |

| ID | Description |
|---|---|
| ZEN-26754 | `audit.log` does not log changes to the **Infrastructure** > **Manufacturers** page. |
| ZEN-26795 | SNMP INFORM via SNMPv3 are not being processed. |
| ZEN-26821 | Bad transform events can cause an event loop. `zeneventd` will produce events sent to the root event class, events fail to find default mappings and mapped to `/Unknown`, and transform errors are logged. |
| ZEN-26829 | `zenhub stats` does not include the pid of the zenhubworker for which a task is assigned. This new information is useful when debugging `zenhub` and its workers, especially in cases where a worker might be hanging or deadlocked. |
| ZEN-26882 | `zenbatchload --nocommit` still commits changes. |
| ZEN-26883 | Graph refresh button will request new graph data, even if previous request is still being processed, which leads to slowing down the system. |
| ZEN-26884 | Graph continues to make refresh requests even when graphs are no longer visible, which leads to slowing down the system. |
| ZEN-26928 | When an error is encountered when evaluating min/max threshold, the resulting logged error on the hub does not specify the device/component from which the error originated. |
| ZEN-26936 | Device configuration loading speed is slow. |
| ZEN-26994 | Existing graph reports will not allow a user to add additional device-level graphs. |
| ZEN-27000 | RabbitMQ should not have an IP assignment because this limits the ability to provide application-level high-availability (HA) if a host fails. |
| ZEN-27008 | Viewing a device graph where the value fluctuates over time, the actual maximum value might not display correctly. Zoom out from the graph and at certain intervals, the max value will drop, even though the higher value will still be within the graph's time range. |
| ZEN-27030 | Setting the device parameter (evt.device) on an event transform prevents the production state from being set. |
| ZEN-27031 | Using a formatted email notification, extra spaces are added in the html. The extra spaces can break rendering and formatting. |
| ZEN-27042 | When a new data source name includes invalid characters, a message is needed to state the allowed characters. |
| ZEN-27044 | In the component graphs section, graphs can have a group of disparate values of different sizes. When displayed individually, graphs will render correctly; however, when they are grouped, they render too large to be viewed without scrolling. |
| ZEN-27046 | When deleting an organizational group, the devices that belong to that group are not completely removed from the group. Subsequently, if the group is re-created, the devices appear in the list of group members, even though the devices claim to not be a member of the group, and the group still claims to have zero members. |
| ZEN-27063 | Most component graphs display IDs instead of title in legend and summary. |

# Known issues

**Table 10: Release 5.2.3**

| ID | Description | Status |
|----|-------------|--------|
| ZEN-27381 | ZenPack dependencies not always installed in correct order during Zenoss Core upgrade | Open |

# ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 11: Release 5.2.3**

| ZenPack | Current version | Previous version |
|---------|-----------------|------------------|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.5 | Same |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.Microsoft.Windows | 2.6.11 | Same |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.8.2 | Same |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |
| ZenPacks.zenoss.ZenPackLib | 2.0.3 | 2.0.1 |

# Zenoss Core 5.2.2

6

## New features

Zenoss Core 5.2.2 provides the following new feature:

■ When installing, upgrading, or removing ZenPacks, you can do so without first stopping services. When Zenoss Core is managed by version 1.3.x or later of Control Center, rolling restart reduces or eliminates downtime for some services on restart.

## Fixed issues

**Table 12: Release 5.2.2**

| ID | Description |
|----|-------------|
| ZEN-22244 | Security: Restrictions are not placed on number of failed authentication attempts |
| ZEN-26171 | Logging from `zenossdbpack` is not retained |
| ZEN-26260 | Unable to change date format for First Seen/Last Seen columns in Event console |
| ZEN-26418 | Details for cold start traps differ depending on version of SNMP |
| ZEN-26581 | ZenPack loader and `zenmib` overwrites MIB files |
| ZEN-26629 | Security: XSS on the device's Details page |
| ZEN-26630 | Security: XSS in search results for events |
| ZEN-26631 | Auto-cleared events have transient severity |
| ZEN-26646 | Graph data point format is not honored in graph legend display |
| ZEN-26698 | Overridden objects UI shows the device classes of devices when it should show the actual devices |
| ZEN-26704 | Within Zenoss Core, the link from a VM to the vCenter or vSphere endpoint is broken |
| ZEN-26756 | Users are not alerted to missed collection runs |
| ZEN-26764 | HBase defect leads to out of control growth on disk |
| ZEN-26769 | Zoom in/Zoom out does not work on "Open in New Tab" |

| ID | Description |
|---|---|
| ZEN-26770 | Expand graph pop-up window does not show data below window frame without scroll bar |
| ZEN-26775 | Unable to change Docker IP address via menu |
| ZEN-26779 | Graphs do not display thresholds unless threshold name is clicked |
| ZEN-26818 | Time stamps are not consistent (local time vs. UTC) in event logs and some graph displays |
| ZEN-26830 | Allow an admin to configure the number of reports a single user can run at a time, preventing UI slowness or `zope` crashes |
| ZEN-26859 | Pop-up windows, resulting from hovering over a data point, can be hidden behind the left-side panel |
| ZEN-26873 | SNMPv2c and SNMPv3 traps are not always associated with the agent's source address |

## Known issues

**Table 13: Release 5.2.2**

| ID | Description | Status |
|---|---|---|
| ZEN-26258 | Device graph does not display the maximum value correctly. This issue has been removed from Zenoss Core 5.2.2. It was previously listed as fixed in version 5.2.1. | Open |

## ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 14: Release 5.2.2**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.5 | Same |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.Microsoft.Windows | 2.6.11 | Same |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |

| ZenPack | Current version | Previous version |
|---------|-----------------|------------------|
| ZenPacks.zenoss.PythonCollector | 1.8.2 | Same |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |
| ZenPacks.zenoss.ZenPackLib | 2.0.3 | 2.0.1 |

# Notes and workarounds

### Perform migration after upgrading Control Center to 1.3.0 (ZEN-26904)

Zenoss Core 5.2.2 was released before Control Center 1.3.0. If you installed or upgraded Zenoss Core to 5.2.2 before upgrading Control Center to 1.3.0, run the zenmigrate command. The migration command enables Zenoss Core services to utilize the Control Center 1.3.0 emergency shutdown feature. For more information, see *Enabling emergency shutdown in Zenoss Core* on page 23.

## Enabling emergency shutdown in Zenoss Core

Before performing this procedure, start Control Center and Zenoss Core.

Use this procedure to enable Zenoss Core services to utilize the emergency shutdown feature of Control Center 1.3.0. This procedure is only necessary for Zenoss Core 5.2.2 deployments that upgraded Control Center from 1.2.x to 1.3.0 **after** installing or upgrading to Zenoss Core 5.2.2.

1  Log in to the Control Center master host as root, or as a user with superuser privileges.
2  Invoke the migration script.

```
serviced service shell zope su - zenoss \
  -c "zenmigrate --step=AddServiceRunLevels"
```

# Zenoss Core 5.2.1

<div style="text-align: right; font-size: 3em;">7</div>

## New features

Zenoss Core 5.2.1 provides the following new feature:

- **Updated release and inclusion of the Zenoss ZenPack SDK**: This software development kit (SDK) is included as a ZenPack (`ZenPacks.zenoss.ZenPackLib`) and it contains numerous developer-focused enhancements that allow users to more easily build, test, and deploy custom ZenPacks. For more information, visit *ZenPack SDK*.

## Fixed issues

**Table 15: Release 5.2.1**

| ID | Description |
|---|---|
| ZEN-21950 | Links to Event views with time value filter do not include those time values when the link is followed. |
| ZEN-23196 | Zen Packs that add or modify sequence numbers do not log the changes that were made during installation. |
| ZEN-23987 | Exporting events does not work properly when the operator "!!" is used in filters. |
| ZEN-25636 | For maintenance windows, the clearing event does not close the associated started maintenance window event. |
| ZEN-25963 | User and time stamp for event log entries span multiple lines. |
| ZEN-25995 | Possible XSS vulnerability when performing device searches. |
| ZEN-26020 | MetricShipper can fail silently when the connection to MetricConsumer fails. |
| ZEN-26108 | When displayed columns are configured in the Event Console, the Create Incident button disappears. |
| ZEN-26147 | Date range filtering does not functioning in the Event Console. |
| ZEN-26254 | Adding a new device or line to a graph does not get dynamically added to the link to the graph; only 28 items can be added. |
| ZEN-26258 | Device graph does not display the maximum value correctly. |

| ID | Description |
|---|---|
| ZEN-26321 | The default date format can be configured in User Settings. |
| ZEN-26403 | One of the metricreporters in MetricConsumer and CentralQuery fail authentication. |
| ZEN-26439 | Event summary and message details are displayed over multiple lines when the screen has room to display more of the content on the same line. |
| ZEN-26459 | Pressing the Enter key does not add entries in an event log. |
| ZEN-26460 | Typing a partial IP address into the IP address search box on the Infrastructure page results in meaningless log entries. |
| ZEN-26580 | IPv6 addresses are not displayed in device interface components. |
| ZEN-26590 | HRFileSystemMap plugin does not convert unsigned integers. |
| ZEN-26621 | Pulling device configurations from a collector with large number of devices performs slowly. |

# ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 16: Release 5.2.1**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.5 | 1.2.4 |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.1.0 | 2.0.4 |
| ZenPacks.zenoss.Microsoft.Windows | 2.6.11 | 2.6.8 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.8.2 | 1.8.1 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |
| ZenPacks.zenoss.ZenMail | 5.1.0 | 5.0.2 |
| ZenPacks.zenoss.ZenPackLib | 2.0.1 | New |

# Zenoss Core 5.2.0

<span style="font-size:3em;font-weight:bold;color:gray;float:right;">8</span>

## New features

Zenoss Core 5.2.0 provides the following performance improvements:

- **Improved browser interface scalability**: The browser interface has been enhanced to support dozens of simultaneous users. In practice, the limit on the number of concurrent users will be subject to actual system sizing and activity level.
- **Improved performance for production state changes**: The amount of time required to change production state on a device (typically, to put a device into or out of maintenance mode) has been greatly reduced, allowing Zenoss Core to put many hundreds of devices into maintenance mode in a few minutes. The actual performance will vary depending on the types of devices involved, particularly the number of components each device has.
- **Upgraded service libraries**: The following libraries have been updated with fixes for defects and enhancements:

  - **OpenTSDB**: Randomized unique identifiers provide better distribution among regions.
  - **Logstash**: Improved reliability under heavy loads.
  - **Kibana**: Improved log viewing.
  - **Java 8**: Enhanced security.
  - **Docker**: Performance enhancements.
  - **Twisted**: Enhanced SSH security.
  - **Nginx**: Performance enhancements.

## Fixed issues

**Table 17: Release 5.2.0**

| ID | Description |
|---|---|
| ZEN-2851 | Default first seen and last seen column width is too short |
| ZEN-5419 | Modeling devices gives "running_extractAddressAndPort" messages |
| ZEN-6979 | Cross-Site Request Forgery (CSRF) vulnerabilities |
| ZEN-10184 | The `prod_state` option in `zendisc.conf` is not respected |
| ZEN-15322 | Special characters in organizer names cause IpServices page not to load |

| ID | Description |
|---|---|
| ZEN-15367 | Notifications created in ZenPack zep/actions.json do not get default values |
| ZEN-16792 | Using the `zenprocess.conf` showprocs option breaks data collection |
| ZEN-19240 | Ensure that the SSL certs use SHA-256 |
| ZEN-20437 | Zenoss Core should indicate if the device has no data to show in the graphs |
| ZEN-21978 | Not able to remove a data source from a monitoring template class |
| ZEN-22056 | Multigraph reports show incorrect data |
| ZEN-22068 | Multigraph reports show the same data for all devices/components for a particular datapoint |
| ZEN-22368 | All LinuxMonitor graphs are too small |
| ZEN-22413 | Legend color sequence mismatch in component graphs when "All on Same Graph" is used with hidden graphpoints |
| ZEN-22748 | Zenoss Core 5.1.1 SSH incompatible with OpenSSH 7.x |
| ZEN-23768 | Unable to add component groups as administered objects to users and groups |

# ZenPacks

This release of Zenoss Core supports ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

**Table 18: Release 5.2.0**

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.Dashboard | 1.2.4 | 1.2.3 |
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.1.0 | 2.0.4 |
| ZenPacks.zenoss.Microsoft.Windows | 2.6.8 | 2.6.3 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PythonCollector | 1.8.2 | 1.8.1 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |

| ZenPack | Current version | Previous version |
|---|---|---|
| ZenPacks.zenoss.ZenMail | 5.1.0 | 5.0.2 |

# Limitations, errata, and documentation A

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 Planning 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 sync 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.

### Documentation feedback

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