



Zenoss Resource Manager Release Notes

Release 5.3.1

Zenoss, Inc.

www.zenoss.com

Zenoss Resource Manager Release Notes

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Part Number: 1002.17.244

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About this document

Zenoss Resource Manager Release Notes contains important information about minor and micro releases of Zenoss Resource Manager (Resource Manager).

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

This document provides information about the following releases of Resource Manager:

| Date | Release |
|----------------|---------|
| 31 August 2017 | 5.3.1 |
| 17 August 2017 | 5.3.0 |

Supported operating environments

The Resource Manager application is deployed in and managed by Control Center. The supported operating environments of Resource Manager are the environments that Control Center supports at a given release. The following sections identify the supported operating environments of Resource Manager.

Resource Manager, Control Center, and operating systems

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

| Resource Manager release | Control Center | |
|---|--|---------------------------------------|
| | release | Host OS |
| 5.3.0, 5.3.1 | 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) |

Hypervisors

| Hypervisor | Versions |
|-------------------|---|
| VMware vSphere | 5.0, 5.1, 5.5, 6.0, 6.5 |
| Microsoft Hyper-V | Version 2.0 with Windows Server 2008 R2 SP1 |

* Version 5.2.5 was withdrawn.

| Hypervisor | Versions |
|------------|--|
| | Version 3.0 with Windows Server 2012 and 2012 R2 |

Public cloud platforms

Amazon Web Services (AWS) is fully supported.

Microsoft Azure is supported only for collector pools. Deploying a full Control Center cluster to operate Resource Manager is NOT supported on Microsoft Azure.

Supported clients 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 |

* Support for Internet Explorer 10 will be withdrawn beginning with the next major release of Resource Manager.

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Resource Manager 5.3.1

The sole purpose of this release is to provide the fix described in [Fixed issue](#) on page 5.

All information Resource Manager 5.3.0 release notes apply to 5.3.1. For details, see the following sections:

- [New features](#) on page 6
- [Fixed issues](#) on page 7
- [Known issues](#) on page 9
- [Notes and workarounds](#) on page 11
- [ZenPacks](#) on page 9
- [Limitations, errata, and documentation](#) on page 13

Note If you are upgrading from Resource Manager 5.3.0, an additional procedure is required. For information, refer to the *Zenoss Resource Manager Upgrade Guide*.

Fixed issue

Table 1: Release 5.3.1

| ID | Description |
|-----------|---|
| ZEN-28477 | ZenPacks with MIB data throw traceback errors during installation or upgrade. |
| ZPS-1988 | |

Resource Manager 5.3.0

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 Resource Manager artifacts are no longer available from Docker Hub, and a Docker Hub account is no longer required to access Resource Manager images. Use your LeapFILE account to download all artifacts.

For Resource Manager versions earlier than 5.3.0, artifacts will remain available from Docker Hub for as long as Zenoss maintains that release. Customers should carefully review the Install and Upgrade Guides for both Resource Manager and Control Center for details.

New features

This release of Resource Manager provides the following new features.

Audit logging enhancements

The Resource Manager audit log tracks user actions in log files in a format that is optimized for searching and reporting. Audit logs are stored in ElasticSearch and are viewable in the Kibana browser interface.

In this release, audit logs are also propagated to a flat file so that retention policies and export actions can be applied to them separately from Resource Manager operational logs. By default, the audit logs are stored at `/opt/zenoss/log/audit.log`. The retention rules of the `applicationaudit.log` file are governed by the `logrotate` configuration file. For more information, refer to the *Zenoss Resource Manager Administration Guide*.

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.

Dedicated Zopes

To maintain responsiveness of the browser interface, Resource Manager now provides dedicated Zope instances for the following purposes:

- Reporting - The service `zenreports` provides a Zope instance that is dedicated to long-running report generation.
- JSON API use - The service `zenapi` provides a Zope instance to support heavy use of the Resource Manager JSON API.
- Debugging - The service `zendebug` enables the Zenoss Support team to bring up a separate Zope instance for troubleshooting.

By default, `zenreports` and `zenapi` start when you launch Resource Manager, and you can disable these services. By default, `zendebug` is stopped, and you can enable the service when instructed to do so by Zenoss Support. Do not remove `zendebug` from the Resource Manager service definition because it is a supportability service.

For more information, refer to the *Zenoss Resource Manager Administration Guide*.

Low storage event alerts

`ZenPacks.zenoss.ControlCenter` monitors the Control Center application management and orchestration system. Updates in version 1.2.1 of this ZenPack enable Resource Manager to alert you to low storage events in the tenant application file systems and the underlying thin pool data metadata devices before a severe outage occurs. Available with Control Center version 1.1.6 and later, the ZenPack provides

- Graceful degradation of monitoring capability.
- Storage usage reports for the thin pool data and metadata devices.
- Usage statistics in MiB/GiB units in both the browser interface and the command-line interface (`serviced volume status` command).
- For DFS volumes and thin pool data and metadata devices, events as follows:
 - At 80% full, generates a "space low" warning.
 - At 90% full, generates a "space very low" alarm.

Fixed issues

Table 2: Release 5.3.0

| ID | Description |
|-----------|--|
| ZEN-5652 | <code>audit.log</code> does not properly log removal of templates from device classes. |
| ZEN-18127 | Missing <code>audit.log</code> messages if SMTP configuration is wrong. |
| ZEN-19495 | Zope containers are failing when modeling from the UI. |
| ZEN-21035 | <code>audit.log</code> file is difficult to search in version 5.x. |

| ID | Description |
|-----------|--|
| 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 <code>serviced</code> definition for <code>zenosssdbpack</code> command does not get updated during upgrade. |
| ZEN-26387 | The <code>stateChange</code> field in <code>.csv</code> export in epoch time is inconsistent with other fields. |
| ZEN-26414 | The ControlCenter ZenPack reports incorrect values for services with multiple entries. |
| ZEN-26670 | <code>zenosssdbpack.log</code> gets logging from unrelated daemons. |
| ZEN-27118 | The <code>PowerNet-MIB.mib</code> 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 suppressed events. |
| ZEN-27458 | <code>smidump</code> introduces zeroes into Zenoss MIBs. |
| ZEN-27605 | Cisco UCS devices not batch loading correctly using <code>zenbatchload</code> command. |
| ZEN-27612 | ZEN-26581 degrades, rather than enhances MIB management functionality. |
| ZEN-27727 | Special characters in the Infrastructure > Devices view can cause <code>CatalogServiceException</code> flares. |
| ZEN-27735 | vSphere devices are not filtered with <code>Down</code> 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 TALEX expressions cause notifications to fail. |
| ZEN-27796 | <code>audit.log</code> lacking detail for changes to mappings. |
| 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 (<code>Advanced/ControlCenter/RemoteCollector/Graphs</code>). |
| ZEN-27925 | Email notifications are concatenating content onto a single line. |
| 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 | Resource Manager site portal URL point to wrong page. |
| ZEN-28025 | Google map portlet: Viewing parent location generates a site error. |
| ZEN-28055 | <code>quiesce-rabbitmq.sh</code> script fails to pause service during backup. |
| ZEN-28058 | Set default RAM value to 32 GB for PoC appliance. |

Known issues

Table 3: Release 5.3.0

| ID | Description | Status |
|-----------------------|---|----------------|
| ZEN-23606 | When modeling Linux servers as a <code>root</code> user, you must not require the <code>root</code> 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 Resource Manager 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 |
| ZEN-28227 | Audit log information level is not configurable in a permanent way. Whenever a container is bounced, the configuration changes are lost unless the container is committed. | Open |
| ZPS-1988 ZEN-28477 | 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. | Fixed in 5.3.1 |

ZenPacks

This release of Resource Manager 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 4: Release 5.3.0

| ZenPack | Current version | Previous version |
|---------------------------------------|-----------------|------------------|
| ZenPacks.zenoss.AdvancedSearch | 1.2.1 | Same |
| ZenPacks.zenoss.AixMonitor | 2.2.3 | 2.2.2 |
| ZenPacks.zenoss.ApacheMonitor | 2.1.4 | Same |
| ZenPacks.zenoss.AuditLog | 1.4.1 | 1.4.0 |
| ZenPacks.zenoss.BigIpMonitor | 2.7.1 | Same |
| ZenPacks.zenoss.BrocadeMonitor | 2.1.1 | Same |
| ZenPacks.zenoss.CalculatedPerformance | 2.4.1 | Same |
| ZenPacks.zenoss.CatalogService | 3.1.3 | 3.1.1 |
| ZenPacks.zenoss.CheckPointMonitor | 2.0.2 | Same |
| ZenPacks.zenoss.CiscoMonitor | 5.8.0 | Same |
| ZenPacks.zenoss.CiscoUCS | 2.6.1 | Same |
| ZenPacks.zenoss.ComponentGroups | 1.4.0 | Same |
| ZenPacks.zenoss.ControlCenter | 1.5.2 | 1.5.1 |
| ZenPacks.zenoss.Dashboard | 1.2.6 | 1.2.5 |

| ZenPack | Current version | Previous version |
|--------------------------------------|-----------------|------------------|
| ZenPacks.zenoss.DellMonitor | 2.2.0 | Same |
| ZenPacks.zenoss.DeviceSearch | 1.2.2 | Same |
| ZenPacks.zenoss.Diagram | 1.3.1 | Same |
| ZenPacks.zenoss.DigMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.DistributedCollector | 3.1.5 | 3.1.4 |
| ZenPacks.zenoss.DnsMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.DynamicView | 1.5.0 | Same |
| ZenPacks.zenoss.EnterpriseCollector | 1.7.4 | Same |
| ZenPacks.zenoss.EnterpriseReports | 2.4.1 | Same |
| ZenPacks.zenoss.EnterpriseSecurity | 1.2.0 | Same |
| ZenPacks.zenoss.EnterpriseSkin | 3.3.4 | Same |
| ZenPacks.zenoss.FtpMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.HPMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.HpuxMonitor | 2.0.2 | 2.0.1 |
| ZenPacks.zenoss.HttpMonitor | 2.1.0 | Same |
| ZenPacks.zenoss.JBossMonitor | 2.4.2 | Same |
| ZenPacks.zenoss.JuniperMonitor | 2.1.1 | Same |
| ZenPacks.zenoss.LDAPAuthenticator | 3.3.0 | Same |
| ZenPacks.zenoss.LDAPMonitor | 1.4.1 | Same |
| ZenPacks.zenoss.Licensing | 0.2.0 | Same |
| ZenPacks.zenoss.LinuxMonitor | 2.2.6 | 2.2.2 |
| ZenPacks.zenoss.Microsoft.HyperV | 1.4.0 | Same |
| ZenPacks.zenoss.Microsoft.Windows | 2.7.8 | 2.7.4 |
| ZenPacks.zenoss.MySqlMonitor | 3.0.7 | Same |
| ZenPacks.zenoss.NetAppMonitor | 3.5.0 | 3.3.2 |
| ZenPacks.zenoss.NetScreenMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.NortelMonitor | 2.0.2 | Same |
| ZenPacks.zenoss.NtpMonitor | 2.2.2 | Same |
| ZenPacks.zenoss.PredictiveThreshold | 1.2.2 | 1.2.1 |
| ZenPacks.zenoss.PropertyMonitor | 1.1.0 | Same |
| ZenPacks.zenoss.PythonCollector | 1.9.0 | 1.8.2 |
| ZenPacks.zenoss.SolarisMonitor | 2.5.0 | Same |
| ZenPacks.zenoss.StorageBase | 1.4.1 | Same |
| ZenPacks.zenoss.SupportBundle | 1.1.1 | 1.1.0 |

| ZenPack | Current version | Previous version |
|----------------------------------|-----------------|------------------|
| ZenPacks.zenoss.TomcatMonitor | 2.3.0 | Same |
| ZenPacks.zenoss.vCloud | 1.4.9 | Same |
| ZenPacks.zenoss.vSphere | 3.6.3 | 3.6.2 |
| ZenPacks.zenoss.WBEM | 1.0.3 | Same |
| ZenPacks.zenoss.WebLogicMonitor | 2.2.3 | Same |
| ZenPacks.zenoss.WebsphereMonitor | 1.2.2 | Same |
| ZenPacks.zenoss.ZenDeviceACL | 2.2.0 | Same |
| ZenPacks.zenoss.ZenJMX | 3.12.1 | Same |
| ZenPacks.zenoss.ZenMail | 5.1.0 | Same |
| ZenPacks.zenoss.ZenMailTx | 2.6.0 | Same |
| ZenPacks.zenoss.ZenOperatorRole | 2.1.0 | Same |
| ZenPacks.zenoss.ZenPackLib | 2.0.6 | 2.0.5 |
| ZenPacks.zenoss.ZenSQLTx | 2.6.5 | Same |
| ZenPacks.zenoss.ZenWebTx | 3.0.1 | 3.0.0 |

Notes and workarounds

ZEN-27866: Loading MIBs change

Resource Manager prevents duplicate OID values in the database, regardless of the MIB module in which the OID exists. When loading a MIB, Resource Manager 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.

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Limitations, errata, and documentation

This section includes the following information:

- Known limitations of Resource Manager
- 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 Resource Manager distributions include PDF versions of the following documents:

- *Zenoss Resource Manager Planning Guide*
- *Zenoss Resource Manager Configuration Guide*
- *Zenoss Resource Manager 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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