



# Control Center Release Notes

Release 1.3.3

Zenoss, Inc.

[www.zenoss.com](http://www.zenoss.com)

# Control Center Release Notes

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# About this document

*Control Center Release Notes* contains important information about minor and micro releases of Control Center.

**Table 1: Release dates**

Date	Release
20 June 2017	1.3.3
03 May 2017	1.3.2
13 April 2017	1.3.1
13 March 2017	1.3.0
27 February 2017	1.2.3
25 January 2017	1.2.2
16 December 2016	1.2.1
14 November 2016	1.2.0
17 October 2016	1.1.9
12 September 2016	1.1.8
20 July 2016	1.1.7
29 June 2016	1.1.6
31 May 2016	1.1.5
25 May 2016	1.1.4
20 April 2016	1.1.3
04 March 2016	1.1.2
29 February 2016	1.1.1

## Control Center 1.3.3

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**Note** As of 6 July 2017, the installation and upgrade procedures in the Control Center 1.3.3 documentation set have been modified to successfully install Docker CE 17.03, which was tested and certified for Control Center 1.3.3. A new release of Control Center is not necessary to work around the impact of Docker CE 17.06.

**Note** As of June 29, 2017, a new release of Docker (version 17.06) has negatively impacted our installation process for Control Center 1.3.3. A fix to this issue will be released on Monday, July 3, 2017 as Control Center 1.3.4.

### New features

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Control Center 1.3.3 replaces Docker 1.12.1 with Docker Community Edition (CE) 17.03.1. The following new configuration variables are available in `/etc/default/serviced` for tuning TCP/IP communications between ZooKeeper ensemble hosts and Control Center:

```
SERVICED_ZK_CONNECT_TIMEOUT
SERVICED_ZK_PER_HOST_CONNECT_DELAY
SERVICED_ZK_RECONNECT_START_DELAY
SERVICED_ZK_RECONNECT_MAX_DELAY
```

For information about removing the old version of Docker and installing the new, refer to the *Control Center Upgrade Guide*.

Before upgrading to Control Center 1.3.3, you *must* ensure you have sufficient free space in both the thin pool metadata volume and the thin pool data volume. The thin pool metadata volume should be at least 1% of the size of the thin pool data volume (if created by an earlier version of `serviced-storage`, it may be smaller). In addition, you must have at least 3GB of available space in the thin pool data volume because this is the minimum buffer before an emergency shutdown will commence. If less than 3GB is available, you must provision additional storage or `serviced` will fail to start after the upgrade. Refer to the *Control Center Upgrade Guide* for details.

### Fixed issues

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**Table 2: Release 1.3.3**

ID	Description
CC-1577	Application service details graphs may not populate for time periods less than last 12 hours.

ID	Description
CC-1621	Deleted application templates may be displayed again after a serviced restart, until the view is refreshed.
CC-1762	When localized, some elements of the Control Center UI are not translated as expected.
CC-3438	Status icon for hosts is the same whether offline or unauthorized.
CC-3511	RabbitMQ admin web interface links are broken for the /zenoss exchanges/queues.
CC-3519	When Control Center generates the logstash.conf file used by the Docker container <code>serviced-isvcs_logstash</code> , it might generate duplicate entries for some of the service-specific filters. When that happens, Logstash might not properly forward data to Elasticsearch.
CC-3520	When upgrading to Control Center 1.3.2, the check for <code>serviced</code> thinpool reports errors on delegates as if they do not have any thinpools.
CC-3563	When a Control Center delegate is disconnected from the Control Center master, <code>glog</code> attempts to reconnect very aggressively in an attempt to find Logstash. This behavior can lead to a flood of unneeded network requests.
CC-3575	Docker has been upgraded to 17.03.1 to address a variety of potential issues.
CC-3612	<code>serviced</code> base device potentially can grow after restart.

## Known issues

Table 3: Release 1.3.3

ID	Description	Status
CC-1302	Serviced may not shut down cleanly if it loses connection to a single ZooKeeper instance that is sharing a physical disk with Docker and data volumes.	Open
CC-1888	ZooKeeper maintains nodes for deleted public endpoints.	Open
CC-2791	There is a 20 second delay to view logs the first time after <code>serviced</code> starts or restarts.	Open
CC-3073	Missing device-mapper libraries	Open
CC-3255	Kernel message concerning container lockup that requires a reboot of the host.	Open

## Notes and workarounds

### Docker configuration on master host (CC-3455)

Previously, the Docker configuration procedures in the installation and upgrade guides instructed users to set the `--insecure-registry` flag in `/etc/sysconfig/docker` only on delegate hosts. Actually, this setting is required on all cluster hosts when the local Docker registry endpoint is not `localhost:5000`. The guides have been updated with the correct information.

## Control Center 1.3.2

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### New features

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There are no new features in Control Center 1.3.2, however before upgrading to Control Center 1.3.2, you *must* ensure you have sufficient free space in both the thin pool metadata volume and the thin pool data volume. The thin pool metadata volume should be at least 1% of the size of the thin pool data volume (if created by an earlier version of `serviced-storage`, it may be smaller). In addition, you must have at least 3GB of available space in the thin pool data volume, as this is the minimum buffer before an emergency shutdown will commence. If less than 3GB is available, you must provision additional storage or `serviced` will fail to start after the upgrade. See the *Control Center Upgrade Guide* for details.

### Fixed issues

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**Table 4: Release 1.3.2**

ID	Description
CC-3506	When running multiple remote hubs in resource pools, details regarding the host and resource pool for hub/daemon log records should be logged.
CC-3520	When upgrading Control Center, a check for <code>serviced</code> thinpool happens, but <code>delegate</code> do not have a thinpool, so the upgrade will fail.

### Known issues

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**Table 5: Release 1.3.2**

ID	Description	Status
CC-1302	<code>serviced</code> may not shut down cleanly if it loses connection to a single ZooKeeper instance that is sharing a physical disk with Docker and data volumes	Open
CC-1577	Application service details graphs may not populate for time periods less than last 12 hours	Fixed in 1.3.3
CC-1621	Deleted application templates may be displayed again after a <code>serviced</code> restart, until the view is refreshed	Fixed in 1.3.3

ID	Description	Status
CC-1762	When localized, some elements of the Control Center UI are not translated as expected	Fixed in 1.3.3
CC-1888	ZooKeeper maintains nodes for deleted public endpoints	Open
CC-2791	There is a 20 second delay to view logs the first time after <code>serviced</code> starts or restarts.	Open
CC-3073	Missing device-mapper libraries	Open
CC-3255	Kernel message concerning container lockup that requires a reboot of the host	Open

## Notes and workarounds

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### Docker configuration on master host (CC-3455)

Previously, the Docker configuration procedures in the *Control Center Installation Guide* and the *Control Center Upgrade Guide* instructed users to set the `--insecure-registry` flag in `/etc/sysconfig/docker`. This setting is not needed on the master host in a Control Center cluster, and required on all delegate hosts.

## Control Center 1.3.1

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### New features

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Control Center 1.3.1 introduces enhancements in the following functional areas:

- The PCS resource agents for Control Center package includes important fixes that improve failover reliability. Zenoss strongly recommends that all high-availability deployments upgrade the installed PCS resource agents for Control Center package to version 1.0.0 as soon as possible. You can upgrade the resource agents without upgrading Control Center. For more information about upgrading the package, refer to the *Control Center Upgrade Guide for High-Availability Deployments*.
- This release includes the new serviced group and changes to the file permissions. To execute the Control Center command-line interface (CLI), you must be the `root` user or a member of the `serviced` group. For more information, refer to the *Control Center Installation Guide*.

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**Note** Before upgrading to Control Center 1.3.1, you *must* ensure you have sufficient free space in both the thin pool metadata volume and the thin pool data volume. The thin pool metadata volume should be at least 1% of the size of the thin pool data volume (if created by an earlier version of `serviced-storage`, it may be smaller). In addition, you must have at least 3GB of available space in the thin pool data volume, as this is the minimum buffer before an emergency shutdown will commence. If less than 3GB is available, you must provision additional storage or `serviced` will fail to start after the upgrade. See the *Control Center Upgrade Guide* for details.

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### Additional upgrade instructions

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When upgrading a Control Center delegate, the following instructions are a mandatory workaround:

#### Error in PREIN scriptlet in rpm package of serviced (CC-3512)

When upgrading to Control Center 1.3.1, the rpm package checks for a `serviced` thinpool. Since delegates do not have a thinpool, the upgrade fails. To workaround this issue, prepend `NOCHECK=1` before the `yum install` command. The updated command should read:

```
NOCHECK=1 yum --enablerepo=zenoss-stable install serviced-1.3.1
```



## Fixed issues

**Table 6: Release 1.3.1**

ID	Description
CC-2651	serviced volume status fails and logs "can't load a volume that uses the base device..." to serviced logs when stale metadata entries for old applications are present.
CC-3182	After updating the interface on a host, Control Center does not display the updated interface name.
CC-3207	A restore will fail if the backup has resource pools with VIPs that do not exist in the target Control Center.
CC-3223	Defect with RHEL 7.3 in certain configurations where disabling the consistent network device naming and then restarting will cause inconsistent, changing, or missing network device names.
CC-3243	A timeout of <code>serviced</code> health checks forces failover in a high-availability cluster. This fix is included in the PCS resource agents for Control Center package.
CC-3247	After restoring a backup, only non-virtual IP assignments are restored.
CC-3283	The <code>serviced-storage</code> resource agent does not deactivate all of the Control Center storage devices during a failover. This fix is included in the PCS resource agents for Control Center package.
CC-3355	Delegate authentication will fail if the master time is too far ahead of the delegate time. Allow for authentication to be less sensitive to time drift.
CC-3359	A flare message should be displayed if a user clicks start/restart button for a group of services that are in emergency state.
CC-3362	Services that have been emergency stopped should not have a way to change state or status except with the CLI command <code>serviced service clear-emergency</code> .
CC-3382	A backup can be started even if there is not enough space to store it.
CC-3396	When using the <code>--force-restart</code> option, a rollback to a snapshot does not automatically start services.
CC-3397	Services with VIP assignments do not move to another available host if the timeout is exceeded on an outage.
CC-3404	Backup will fail when remote collectors are unavailable.

## Known issues

**Table 7: Release 1.3.1**

ID	Description	Status
CC-1302	Serviced may not shut down cleanly if it loses connection to a single ZooKeeper instance that is sharing a physical disk with Docker and data volumes	Open

ID	Description	Status
CC-1577	Application service details graphs may not populate for time periods less than last 12 hours	Fixed in 1.3.3
CC-1621	Deleted application templates may be displayed again after a serviced restart, until the view is refreshed	Fixed in 1.3.3
CC-1762	When localized, some elements of the Control Center UI are not translated as expected	Fixed in 1.3.3
CC-1888	ZooKeeper maintains nodes for deleted public endpoints	Open
CC-2791	There is a 20 second delay to view logs the first time after <code>serviced</code> starts or restarts.	Open
CC-3073	Missing device-mapper libraries	Open

## Notes and workarounds

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### Docker configuration on master host (CC-3455)

Previously, the Docker configuration procedures in the *Control Center Installation Guide* and the *Control Center Upgrade Guide* instructed users to set the `--insecure-registry` flag in `/etc/sysconfig/docker`. This setting is not needed on the master host in a Control Center cluster, and required on all delegate hosts.

# Control Center 1.3.0

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## New features

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Control Center 1.3.0 introduces enhancements in the following functional areas:

- **Emergency shutdown**

For services in a resource pool with DFS access, Control Center monitors storage usage levels and trends. Using collected data, it predicts when a service will exhaust storage space. Data corruption can result if thin pool or metadata volume space is exhausted. If Control Center projects that the service is likely to exhaust available storage space in a pre-determined window, it will initiate an automatic emergency shutdown of the service, while enough space is still available to perform recovery operations. Support for this feature requires at least 3GB of free space in the thin pool for data and metadata. For more information on this feature, including how to view current storage utilization and how to recover from an emergency shutdown, see the *Control Center Reference Guide*.

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**Note** Before upgrading to Control Center 1.3.0, you *must* ensure you have sufficient free space in both the thin pool metadata volume and the thin pool data volume. The thin pool metadata volume should be at least 1% of the size of the thin pool data volume (if created by an earlier version of `serviced-storage`, it may be smaller). In addition, you must have at least 3GB of available space in the thin pool data volume, as this is the minimum buffer before an emergency shutdown will commence. If less than 3GB is available, you must provision additional storage or `serviced` will fail to start after the upgrade. See the *Control Center Upgrade Guide* for details.

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**Note** Zenoss applications may require additional steps to prepare to use this release. For more information, refer to the documentation for your application.

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- **Rolling restart**

Control Center now restarts instances of multi-instance services one at a time. This rolling restart reduces or eliminates downtime for these services on Restart, such as following a ZenPack install or upgrade. In a WAN outage, the rolling restart proceeds, and instances on disconnected hosts restart when the WAN is restored.

- **Graceful shutdown**

Improved service startup, restart, and shutdown order to optimize startup times and perform normal shutdowns more gracefully. When taking a snapshot, all services pause while the snapshot is taken, and then

return to their prior state. Requests to start, stop, or restart a service during the snapshot are delayed until after the snapshot.

- **NAT support**

Control Center supports the use of network address translation (NAT). When you add a delegate host, you specify the hostname or IP address and port for the NAT device, and then transfer host keys to the delegate hosts and register them.

## Fixed issues

**Table 8: Release 1.3.0**

ID	Description
CC-2076	By default, <code>serviced</code> binary is available to all users.
CC-2261	Variables <code>SERVICED_DM_BASESIZE</code> and <code>SERVICED_DM_THINPOOLDEV</code> are not present in defaults of <code>serviced</code> configuration file.
CC-2362	HTTP Strict Transport Security (HSTS) is missing from the HTTPS server.
CC-2612	Control Center security: Cross-site scripting on the Resource Pool name
CC-2828	When adding an invalid or duplicate host, the error flare messages are displayed behind the Add Hosts window.
CC-2848	Cannot add a new pool via UI after having a failed attempt.
CC-2900	Upgrading to Go 1.7.3 fixes issues with <code>crypto/tls</code> and <code>net/http</code> .
CC-2940	Docker network bridge automatically remaps service IPs, then loses internal network sync.
CC-3025	The Control Center Resource Pools page generates too many requests and causes <code>serviced</code> CPU usage to go up.
CC-3032	Cannot use <code>mariadb-model</code> by name in CLI commands.
CC-3034	Change "Worker" to "Delegate" on Edit Resource Pool dialog.
CC-3069	Warn/Show Error when authorization fails due to clock drifts between hosts.
CC-3084	" <code>Serviced unable to get memory metrics</code> " message should not be present.
CC-3093	Services never show the over-commitment red dot.
CC-3155	Naming conventions for delegates not consistent in Control Center UI.
CC-3158	Log progress updates on Backups and Restores.
CC-3211	Loading services page causes JS errors.
CC-3215	<code>pam</code> crashes <code>serviced</code> .
CC-3235	Unable to add collector to Control Center when NAT is involved.
CC-3262	Elastic is being locked up for the duration of a backup.
CC-3264	Edits to service config files are not always saved.

## Known issues

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**Table 9: Release 1.3.0**

ID	Description	Status
CC-1302	Serviced may not shut down cleanly if it loses connection to a single ZooKeeper instance that is sharing a physical disk with Docker and data volumes	Open
CC-1577	Application service details graphs may not populate for time periods less than last 12 hours	Fixed in 1.3.3
CC-1621	Deleted application templates may be displayed again after a serviced restart, until the view is refreshed	Fixed in 1.3.3
CC-1762	When localized, some elements of the Control Center UI are not translated as expected	Fixed in 1.3.3
CC-1888	ZooKeeper maintains nodes for deleted public endpoints	Open
CC-2421	Do not start a backup if there is not enough space to store it.	Fixed in 1.3.1
CC-2791	There is a 20 second delay to view logs the first time after serviced starts or restarts.	Open
CC-3073	Missing device-mapper libraries	Open



## Limitations, errata, and documentation

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This section includes the following information:

- The list of supported browser clients.
- The known limitations of Control Center, if any.
- Release-specific documentation errata, if any.
- Descriptions of additional documentation.

### Supported operating systems and browsers

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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

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\* Support for Internet Explorer 10 will be withdrawn beginning with the next feature release of Control Center.

Client OS	Supported Browsers
Red Hat Enterprise Linux 6.5, CentOS 6.5	Firefox 30 and above Chrome 37 and above

## Additional information

### Related publications

Title	Description
<i>Control Center Release Notes</i>	Describes known issues, fixed issues, and late-breaking information not included in other publications.
<i>Control Center Planning Guide</i>	Provides both general and specific information about preparing to deploy a Control Center cluster.
<i>Control Center Installation Guide</i>	Provides detailed procedures for installing and configuring a Control Center cluster.
<i>Control Center Installation Guide for High-Availability Deployments</i>	Provides detailed procedures for installing and configuring Control Center in a high-availability deployment.
<i>Control Center Reference Guide</i>	Provides information and procedures for managing Control Center. This information is also available as online help in the Control Center browser interface.
<i>Control Center Upgrade Guide</i>	Provides detailed procedures for updating a Control Center deployment to the latest release.
<i>Control Center Upgrade Guide for High-Availability Deployments</i>	Provides detailed procedures for updating a high-availability deployment of Control Center to the latest release.

### Documentation feedback

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