



# **Control Center Release Notes**

Release 1.1.9

Zenoss, Inc.

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# 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 |
|-------------------|---------|
| 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 1.1.9

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## Fixed issues

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**Table 2: Release 1.1.9**

| ID      | Description  |
|---------|--|
| CC-2328 | Add ability to customize ZooKeeper settings.   |
| CC-2538 | In an HA environment, services are not starting after failing over. In the <code>serviced.log</code> , the following error is seen: <code>failed: coord-client: node does not exist</code> |
| CC-2553 | Snapshot devices may be orphaned leading to an increased amount of space within the thin pool.   |
| CC-2703 | Attempting to run a shell with TLS disabled results in a nil pointer.  |

## Known issues

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**Table 3: Release 1.1.9**

| 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  | Open   |
| CC-1621 | Deleted application templates may be displayed again after a serviced restart, until the view is refreshed  | Open   |
| CC-1762 | When localized, some elements of the Control Center UI are not translated as expected   | Open   |
| CC-1888 | Zookeeper maintains nodes for deleted public endpoints  | Open   |

## 2

# Control Center 1.1.8

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## Fixed issues

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**Table 4: Release 1.1.8**

| ID      | Description   |
|---------|---|
| CC-2255 | <code>serviced</code> makes repeated attempts to connect to ZooKeeper without a pause until a connection is established causing numerous syslog messages and load spikes. |
| CC-2514 | <code>serviced</code> daemon can start in a state that degrades memcached performance.  |
| CC-2525 | Disabling TLS can cause failed connections.   |
| CC-2530 | Specific directories can be excluded from application backups.  |
| CC-2573 | Message "service associated with <public endpoint name> is not running" is reported even though the endpoint is running.  |
| CC-2642 | Administrators can now set environment variables in a service definition.   |

## Known issues

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**Table 5: Release 1.1.8**

| ID      | Description  | Status |
|---------|--|--------|
| CC-1302 | Service 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   | Open   |
| CC-1621 | Deleted application templates may be displayed again after a serviced restart, until the view is refreshed   | Open   |
| CC-1762 | When localized, some elements of the Control Center UI are not translated as expected  | Open   |
| CC-1888 | Zookeeper maintains nodes for deleted public endpoints   | Open   |

## Notes and workarounds

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### **CentOS kernel defect affects volume status feature**

Due to an issue in the CentOS kernel ([https://bugzilla.redhat.com/show\\_bug.cgi?id=1286500](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.

## 3

# Control Center 1.1.7

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## New features

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- `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 Control Center web servers.

## Fixed issues

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**Table 6: Release 1.1.7**

| ID      | Description  |
|---------|--|
| CC-1808 | Application service is missing after application upgrade.  |
| CC-2163 | Turn off logical volume monitoring for the serviced pool.  |
| CC-2247 | Control Center master timeout running healthcheck fails if leader cannot be contacted, despite a ZooKeeper quorum. |
| CC-2348 | CentralQuery isvc uses too much memory.  |
| CC-2375 | Upgrade application fails if current Docker images were restored from a backup.                                    |
| CC-2413 | The <code>serviced-fstrim</code> cron script does not work.  |

## Known issues

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**Table 7: Release 1.1.1**

| 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  | Open   |
| CC-1593 | IP Assignment values cannot be edited   | Open   |
| CC-1621 | Deleted application templates may be displayed again after a serviced restart, until the view is refreshed  | Open   |
| CC-1762 | When localized, some elements of the Control Center UI are not translated as expected   | Open   |
| CC-1845 | Inspector tool will not run if <code>df</code> command has hung   | Open   |
| CC-1888 | Zookeeper maintains nodes for deleted public endpoints  | Open   |
| CC-1906 | Container memory and CPU stats can be incorrect   | Open   |
| CC-1974 | NFS client cannot be disabled on remote pool hosts. Systems with remote NFS clients disabled will not upgrade to Control Center 1.1.1                     | Open   |
| CC-1978 | Docker may fail to start on the first two attempts after applying a new configuration in <code>/etc/sysconfig/docker</code> , but will start on third try | Open   |

## 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](https://bugzilla.redhat.com/show_bug.cgi?id=1286500)), the `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.



## 4

# Control Center 1.1.6

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## Fixed issues

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**Table 8: Release 1.1.6**

| ID      | Description  |
|---------|--|
| CC-1634 | zproxy has a bad list of endpoints   |
| CC-1982 | Add SERVICED_NFS_CLIENT to /etc/default/serviced   |
| CC-2045 | Commented out values in /etc/default/serviced must reflect actual values   |
| CC-2223 | Restore of backups larger than 100G fails  |
| CC-2224 | Restore fails if snapshot volumes are left in /opt/serviced/var/volumes/<tenantid>/devicemapper/volumes                    |
| CC-2230 | Application services do not receive incoming messages due to errant iptables rules   |
| CC-2238 | In zookeeper, set lock on read/write connection  |
| CC-2258 | In HA environment, serviced-storage resource agent is active on two nodes  |
| CC-2263 | Serviced private subnet should accept CIDR addresses   |
| CC-2267 | Backup is creating a race condition  |
| CC-2286 | Serviced is going down after creating backups  |
| CC-2298 | Parallel gzipping of backups can use all CPU capacity  |
| CC-2302 | Serviced fails to start up claiming it cannot take ownership of a thin pool, despite previously having used that thin pool |
| CC-2315 | Make zookeeper session timeout configurable  |
| CC-2318 | Serviced leaks defunct dumpe2fs processes  |
| CC-2323 | Restore may hang forever if restoring the volume fails   |
| CC-2341 | Backup leaves zombie tar processes upon successful backup  |

## Notes and workarounds

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### **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`

# Control Center 1.1.5

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# 5

## Fixed issues

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**Table 9: Release 1.1.5**

| ID      | Description  |
|---------|--|
| CC-2244 | serviced volume status functionality caused panic in backups |

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## Control Center 1.1.4

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### Fixed issues

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**Table 10: Release 1.1.4**

| ID      | Description  |
|---------|--|
| CC-2149 | PAM failure for <code>system_user</code> spams the Control Center logs   |
| CC-2162 | Deleting a restored application generates an <code>Internal Server Error: could not remove snapshot</code> message |
| CC-2200 | Central query becomes unresponsive with too many connections   |
| CC-2207 | If the primary Control Center host is removed, the RabbitMQ vhost goes with it until manually reset                |
| CC-2217 | Unable to look up instance memory stats  |
| CC-2226 | Unable to see detailed storage stats for devicemapper  |

## 7

## Control Center 1.1.3

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### Fixed issues

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**Table 11: Release 1.1.3**

| ID      | Description   |
|---------|---|
| CC-283  | Host graphs switch their display back and forth from 800 to .80K.   |
| CC-1851 | Metricshipper logging filled <code>/var/lib/docker</code>   |
| CC-2000 | Unable to manually overwrite the docker registry  |
| CC-2008 | Failure on backup and restore commands  |
| CC-2011 | Add option to change the logstash purge frequency   |
| CC-2025 | Backups should not backup the service template images   |
| CC-2033 | Too many simultaneous open browsers loading the Control Center UI makes the system too slow to use            |
| CC-2036 | Backups fail after upgrade to Control Center 1.1.x  |
| CC-2038 | <code>serviced-pool</code> does not discard unused blocks on a regular basis causing it to grow out of space. |
| CC-2040 | Control Center UI polling interval should be configurable.  |
| CC-2079 | Control Center backups are taking much longer than in Control Center 1.1.2.                                   |

### Notes and workarounds

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#### Turn off logical volume monitoring for the serviced pool (CC-2158)

Sometimes LVM decides to resize itself and if it doesn't have enough space it will unmount the device. To avoid this situation you should turn off the LVM self monitoring for the serviced-pool using the following command:

```
lvchange --monitor n serviced/serviced-pool
```

# Control Center 1.1.2

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## Fixed issues

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**Table 12: Release 1.1.2**

| ID      | Description                                    |
|---------|--|
| CC-1975 | Cannot disable NFS client on remote pool hosts |

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## 9

# Control Center 1.1.1

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## New features

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### 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.

### 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.

### 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.

### Removal of Ubuntu support

- Ubuntu is no longer a supported platform for Control Center 1.1.1 or later.

## Fixed issues

**Table 13: Release 1.1.1**

| ID      | Description   |
|---------|---|
| CC-1471 | The Control Center command line interface does not show RAM statistics in a multi-host deployment |
| CC-1791 | Control Center uses the deprecated SHA-1 certificate type   |
| CC-1813 | When performing backups in Control Center, "invalid argument" errors appearing in log files       |
| CC-1889 | Control Center users have no way to modify a host's RAM allocation                                |

## Known issues

**Table 14: Release 1.1.1**

| ID      | Description   | Status |
|---------|---|--------|
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| CC-1845 | Inspector tool will not run if <code>df</code> command has hung   | Open   |
| CC-1888 | Zookeeper maintains nodes for deleted public endpoints  | Open   |
| CC-1906 | Container memory and CPU stats can be incorrect   | Open   |
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| CC-1978 | Docker may fail to start on the first two attempts after applying a new configuration in <code>/etc/sysconfig/docker</code> , but will start on third try | Open   |



# Limitations, errata, and documentation

# A

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 clients and browsers

The following table identifies the client operating systems and web browser combinations supported in this release.

**Note** Compatibility mode is not supported in Internet Explorer.

| 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,<br>CentOS 6.5 | Firefox 30 and above                                |
|   | Chrome 37 and above                                 |

## Additional information

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### Related publications

| Title                               | Description   |
|-------------------------------------|---|
| <i>Control Center Online Help</i>   | Describes the features of the Control Center browser interface.   |
| <i>Control Center Release Notes</i> | Describes known issues, fixed issues, and late-breaking information not included in other publications. |

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### Documentation feedback

To provide technical feedback on this document, or to report an error or omission, please use the Zenoss community forum. We appreciate your feedback.