Control Center Release Notes

Release 1.1.8

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Control Center Release Notes

About this document

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

Table 1: Release dates

Date	Release
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

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Fixed issues

Table 2: Release 1.1.8

ID	Description
CC-2255	`serviced` makes repeated attempts to connect to ZooKeeper without a pause until a connection is established causing numerous syslog messages and load spikes.
CC-2514	`serviced` 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

Table 3: Release 1.1.8

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

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Notes and workarounds

CentOS kernel defect affects volume status feature

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

Control Center 1.1.7

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New features

- `serviced volume status` command

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

- Public endpoints

  Another feature available is the ability to create public endpoints for access to the Control Center web servers.

Fixed issues

Table 4: 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 `serviced-fstrim` cron script does not work.

Known issues

Table 5: 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

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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 `df` 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 `/etc/sysconfig/docker`, 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*), 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.

Control Center 1.1.6

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Fixed issues

Table 6: 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

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Notes and workarounds

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`

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Fixed issues

Table 7: Release 1.1.5

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

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Fixed issues

Table 8: Release 1.1.4

ID	Description
CC-2149	PAM failure for `system_user` spams the Control Center logs
CC-2162	Deleting a restored application generates an `Internal Server Error: could not remove snapshot` 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

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Fixed issues

Table 9: 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 `/var/lib/docker`
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	`serviced-pool` 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

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
```

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Fixed issues

Table 10: Release 1.1.2

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

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New features

Control Center storage

- The storage underlying Control Center has changed from btrfs to DeviceMapper. Migration to DeviceMapper is required as part of the upgrade process.

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.

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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 11: 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 12: 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
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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 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, CentOS 6.5	Firefox 30 and above
	Chrome 37 and above

Additional information

Related publications

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

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.