

Pivotal Greenplum Command Center

Version 1.2.2.3

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- [About Pivotal Greenplum Command Center](#)
- [Supported Greenplum Platforms](#)
 - [Greenplum Data Computing Appliance](#)
 - [Greenplum Database \(software-only environments\)](#)
- [About Pivotal Greenplum Command Center 1.2.2.3](#)
- [About Pivotal Greenplum Command Center 1.2.2.2](#)
- [About Pivotal Command Center 1.2.2.x](#)
- [What's New](#)
- [Installation and Upgrade Instructions](#)
 - [Greenplum Data Computing Appliance](#)
 - [Greenplum Database Software-only](#)
- [Accessing Command Center](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Compatibility](#)
 - [Data Computing Appliance Platform](#)
 - [Greenplum Database and Greenplum HD](#)
- [Pivotal Documentation](#)

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About Pivotal Software, Inc.

Greenplum transitioned to a new corporate identity (Pivotal, Inc.) in 2013. As a result of this transition, there will be some legacy instances of our former corporate identity (Greenplum) appearing in our products and documentation. If you have any questions or concerns, please do not hesitate to contact us through our web site: <http://gopivotal.com/about-pivotal/support>.

About Pivotal Greenplum Command Center

Pivotal Greenplum Command Center is a management tool for Pivotal's Greenplum Database. Pivotal Greenplum Command Center monitors system performance metrics, system health, and also provides administrators the ability to perform management tasks such as start, stop, and recovery of systems for Greenplum Database. Pivotal Greenplum Command Center is an interactive graphical web application that can be installed on a web server on the master host, and used to view and interact with the collected system data from Greenplum Database and optionally from Pivotal's Data Computing Appliance (DCA).

Pivotal Greenplum Command Center is comprised of data collection agents that run on the master host and each segment host (either Greenplum Hadoop (GPHD) or Greenplum Database (GPDB) hosts). The agents collect data about queries and system utilization and send it to the database's master host at regular intervals. Pivotal Greenplum Command Center stores its data and metrics in a dedicated Greenplum database (the Command Center database) whose information is distributed among the master host and segment hosts, like any other Greenplum Database. The data stored in the Pivotal Greenplum Command Center database can be accessed through the web application or through SQL queries.

Greenplum Database is a requirement for operating Command Center (Command Center stores its information in a Greenplum database).

Supported Greenplum Platforms

Pivotal Greenplum Command Center is currently certified for the Greenplum Data Computing Appliance (DCA) and Greenplum Database software-only environments. Command Center monitors the following for each environment:

Greenplum Data Computing Appliance

- Greenplum Database Module: 4.3 and 4.2.6.3 or higher (4.2.7.1 or higher is recommended for full functionality of this release)
- Greenplum Hadoop (HD) Module (version 1.1 and 1.2 only)
- Greenplum Data Integration Accelerator (DIA) Module
- Greenplum Data Computing Appliance Hardware (V1.2.x and V2.x)

Greenplum Database (software-only environments)

- Greenplum Database: 4.3 and 4.2.6.3 or higher (4.2.7.1 or higher is recommended for full functionality of this release)

About Pivotal Greenplum Command Center 1.2.2.3

- Greenplum Command Center 1.2.2.3 address an issue that occurs in environments without an internet connection. See [Resolved Issues](#) for more information.
- Adobe Flash Player: GPCC now requires Adobe Flash Player version 11 or higher. If this requirement is not met, you will see the following screen:



IMPORTANT

While Adobe Flash Player 11 or higher is required, we recommend that you always install the latest version of Adobe Flash Player to ensure you receive the latest security updates from Adobe.

About Pivotal Greenplum Command Center 1.2.2.2

Greenplum Command Center (GPCC) 1.2.2.0 and 1.2.2.1 rely upon OpenSSL version 1.0.1g. Based on OpenSSL security Advisory [05 June 2014], we released GPCC 1.2.2.2 with upgraded OpenSSL (1.0.1h). See <http://www.gopivotal.com/security> for more information regarding security vulnerabilities in Pivotal products.

See http://www.openssl.org/news/secadv_20140605.txt for more information about OpenSSL issues.

About Pivotal Command Center 1.2.2.x

Refer to the following sections for more information about GPCC 1.2.2.x:

- [What's New](#)
- [Installation and Upgrade Instructions](#)
- [Resolved Issues](#)

- [Known Issues](#)
- [Greenplum Command Center Compatibility](#)
- [Documentation](#)

What's New

The following enhancements and new features were introduced in GPCC 1.2.2.x:

New Parameters

- **New Greenplum Database Server Configuration Parameter**

Greenplum Database 4.2.7.1 included a new Greenplum Database configuration parameter that improves the performance of Pivotal Greenplum Command Center when monitoring a Greenplum database:

`gpperfmon_log_alert_level` controls which message levels are written to the `gpperfmon` log. The log is used by the Greenplum Command Center.

This new parameter is documented in the *Greenplum Database Server Configuration Parameters* section of the *Pivotal Greenplum Command Center 1.2.2 Administrator Guide*.

- **New Command Center Agent Parameter**

Greenplum Database 4.2.7.1 included a new Command Center agent parameter that enables administrators to automatically clean out logs after a specified amount of time:

`partition_age` is the number of months that Greenplum Command Center statistics data will be retained. The default is 0, which means we won't drop any data.

This new parameter is documented in the *Command Center Agent Parameters* section of the *Pivotal Greenplum Command Center 1.2.2 Administrator Guide*.

Security

- This release of Pivotal Greenplum Command Center addresses several security vulnerabilities. See [Resolved Issues](#) for details.

Installation and Upgrade Instructions

Greenplum Data Computing Appliance

Pivotal Greenplum Command Center is already installed on the appliance (versions 1.2.x and 2.x). EMC Services will work with you to further configure Command Center for your environment.

For more information about setting up, upgrading, and configuring Pivotal Greenplum Command Center on an EMC Greenplum DCA, refer to the appropriate versions of the *Greenplum Data Computing Appliance Software Upgrade Guide* and *Greenplum Data Computing Appliance Installation and Configuration Guide*.

Greenplum Database Software-only

Instructions for installing, configuring, and upgrading your system for Pivotal Greenplum Command Center are provided in the latest *Pivotal Greenplum Command Center 1.2.2 Administrator Guide* (see [Documentation](#) for availability).

Pivotal Greenplum Command Center replaced a monitoring tool called Greenplum Performance Monitor. You are not required to upgrade to Pivotal Greenplum Command Center; you can continue using Performance Monitor as before. To continue running Performance Monitor, do not setup Command Center. You will not be able to access new monitoring features if you decide not to upgrade. You may also run Performance Monitor and Command Center in parallel (for example, to compare functionality before upgrading). For parallel operations, assign a different port number to Command Center during setup.

Accessing Command Center

The Command Center administrative user, `gpmon`, is created automatically by the `dca_setup` utility on the Data Computing Appliance, and by the `gpperfmon_install` utility in a Greenplum Database software-only environment.

Any other Greenplum Database users with appropriate privileges can access Command Center.

To create a new Command Center user, first you have to create a Greenplum Database user, then edit the `pg_hba.conf` file to give that user access to Command Center. An example of this procedure is provided in the *Pivotal Greenplum Command Center Administrator Guide* and more detailed information can be found in the *Pivotal Greenplum Database Administrator Guide*.

Resolved Issues

The following table lists Command Center-related issues that were resolved in Greenplum Database 4.2.7.1:

If you are running an older version of Greenplum Database these will still be issues for your system.

Issue	Description
MPP-22254	In some cases, Command Center displayed incorrect CPU system information in the System Metrics tab.
MPP-21050	Under some conditions, the Command Center process gpsmon would consume a large amount of memory.
MPP-20997	The performance of Command Center was slow when processing log alerts from a very large log file. The log processing has been enhanced and the new Greenplum Database server configuration parameter <code>gpperfmon_log_alert_level</code> can control the growth of the gpperfmon log.
MPP-20970	When Command Center had been running for a long time, the query it used for disk usage information could not be stopped.
MPP-19930	In some cases, the Command Center web server process that ran gpmonws could consume a very large amount of memory. This caused the host machine to run out of memory.
MPP-18635	In some cases, Command Center incorrectly listed SQL queries as active that were no longer active.

The following table lists issues that were resolved in Pivotal Greenplum Command Center (Command Center) 1.2.2.x:

Issue	Resolved In	Description
CMDR-1871 CMDR-1874 CMDR-1878	1.2.2.3	As of GPCC 1.2.2.0, in browser environments that did not have internet access, when the GPCC UI was launched, the page would load to 100% and then freeze/hang.
CMDR-1864	1.2.2.2	Known issue in 1.2.2.1 and 1.2.2.0: The OpenSSL library that GPCC relies upon has been upgraded to version 1.0.1h to address a serious security vulnerability (OpenSSL Security Advisory [05 Jun 2014]).
CMDR-1843	1.2.2.1	Known issue in GPCC 1.2.2.0 only: A database connection error was thrown when a user tried to login to GPCC UI/website.
CMDR-1854	1.2.2.1	Known issue in GPCC 1.2.2.0 only: Valid users that were not "gpadmin" or "gpmon" were unable to login to the GPCC UI/website.
CMDR-1826	1.2.2.1	Misleading error message was given when using incorrect login credentials. The error message has been updated to improve clarity.
CMDR-1840	1.2.2.0	The OpenSSL library that GPCC relies upon has been upgraded to version 1.0.1g to address a serious security vulnerability (TLS heartbeat read overrun (CVE-2014-0160)).
CMDR-1761	1.2.2.0	Selecting Generate Report from the Administration Tab>Disk Usage Report failed to display a report.
CMDR-1775	1.2.2.0	Web application vulnerabilities as a result of cross-site request forgery have been addressed.

Issue	Resolved In	Description
CMDR-1777	1.2.2.0	Session cookies are now being updated after a session completes, this addresses potential vulnerabilities to session fixation attacks.
CMDR-1774	1.2.2.0	The web application vulnerability of mis-using cookies for cross-site scripting has been addressed.
CMDR-1773	1.2.2.0	The HTTP response headers are now secured so that web server version is not revealed.
CMDR-1772	1.2.2.0	The web application now uses longer/ stronger key length for Public keys
CMDR-1771	1.2.2.0	The web application now supports only SSL v3 and above, this addresses "Browser Exploit Against SSL/TLS" vulnerabilities.
CMDR-1767	1.2.2.0	Login request responses are now obfuscated and do not reveal a valid user for the web application.
CMDR-1766	1.2.2.0	Sensitive data that was being cached in the browser is now removed.
DCA-3601/ CMDR-305	DCA	The line graph displaying disk usage on the Storage Monitor section of the Administration tab sometimes did not display any data when the Duration was changed from any other selection to 1 hour.
DCA-2923	DCA	Segment Health: Selecting a specific status or role in the pie charts only temporary sorted the details displayed. After you clicked on a specific segment in one of the pie charts displayed on the Segment Health section of the Administrative tab, the details displayed below are sorted by your selection. After the 15 second (default) refresh, that order was lost.
DCA-2762	DCA	Refreshing the Command Center Console browser caused the user to be logged out without a warning prompt.

Known Issues

This section lists the known issues in Pivotal Greenplum Command Center 1.2.x. A work-around is provided where applicable.

Issue	Description
CMDR-1861	Errors are given when a non-superuser logs into GPCC that prevent some of the data from being displayed in the UI. Workaround: All gpperfmon objects must be granted select permission to users who will be viewing the GPCC UI.
CMDR-297	Heavy workload on the Greenplum Database can affect responsiveness The refresh rate of the Command Center user interface can be adversely affected by simultaneous heavy workload on the underlying Greenplum Database.

Compatibility

Data Computing Appliance Platform

Pivotal Greenplum Command Center is compatible with Greenplum Data Computing Appliance (DCA) version 1.2.x and 2.x software. If you have been using Greenplum's earlier monitoring tool, Performance Monitor with an older DCA release, we recommend you upgrade to a supported version of DCA.

Greenplum Database and Greenplum HD

To take advantage of all Pivotal Greenplum Command Center features and functionality, we recommend that you use Greenplum Database version 4.2.6.3 and above. Other versions of Greenplum Database are compatible with Pivotal Greenplum Command Center (see table below) but have limitations (see limitations table)

Data Computing Appliance (DCA)	Greenplum Database	Greenplum HD
*1.2.x	4.2.x	1.2
2.x	4.2.x	1.2

*Limited testing only

Pivotal Documentation

The following Pivotal Greenplum Command Center and related documentation is available on our website at docs.gopivotal.com

You can also still access product documentation from EMC's [Support Zone](#).

Title	Revision
Pivotal Greenplum Command Center 1.2.2 Administrator Guide	A01
Pivotal Greenplum Command Center 1.2.2.3 Release Notes (this document)	A01

Additionally, we provide end user information via online help. To launch the online help, click the **Help** button at the top right of the GPCC user interface.