



Welcome to Greenplum Command Center

Greenplum Command Center is a management tool for the Greenplum Big Data Platform. 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 in a Greenplum environment. The Greenplum Command Center Console is an interactive graphical web application that can optionally be installed on a web server on the master host, and used to view and interact with the collected Greenplum system data.

Greenplum Command Center is comprised of data collection agents that run on the master host and each segment host (either Greenplum Hadoop or Greenplum Database hosts). The agents collect data about queries and system utilization and send it to the Greenplum master host at regular intervals. 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 Greenplum Command Center database can be accessed through the Greenplum Command Center Console or through SQL queries.

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

Supported Greenplum Platforms

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 (version 4.0 and higher supported, 4.2.1 or higher recommended)
- Greenplum Hadoop (HD) Module (version 1.1 and above)
- Greenplum Data Integration Accelerator (DIA) Module
- Greenplum Data Computing Appliance Hardware

Greenplum Database (software-only environments):

- Greenplum Database (4.0 and higher supported, 4.2.1 or higher recommended)

About Greenplum Command Center 1.2.0.1

This release of Greenplum Command Center supports both Greenplum Data Computing Appliance (DCA) and GPDB Software only platforms

Please refer to the following sections for more information about this release.

- [Greenplum Command Center Overview](#)
- [Installation and Upgrade Instructions](#)
- [Known Issues in Greenplum Command Center 1.2](#)
- [Greenplum Command Center Compatibility](#)
- [Greenplum Command Center Documentation](#)

Greenplum Command Center Overview

Greenplum Command Center provides the following functionality:

- **Database Administrative Controls**
 - Ability to stop/start the database
 - Ability to recover / rebalance segments
- **An interactive View of System Metrics**
 - Realtime
 - Historic (configurable by time)
- **An Interactive View of System Hardware Health**

This functionality is only available for Greenplum Data Computing Appliance environment.
- **Database Query Monitoring**
 - Ability to view, search, prioritize, or cancel any query in the system.
 - Ability to view the internals of any query, including the query plan, query plan iterator-level details, and real-time information about individual scans and joins.
- **Database Workload Management**
 - Ability to configure resource queues
 - Ability to prioritize users

Installation and Upgrade Instructions

Greenplum Data Computing Appliance

The Greenplum Data Computing Appliance (DCA) version of the Greenplum Command Center is already installed on the appliance (versions 1.2 and above). EMC Services will work with you to further configure Command Center for your environment.

For more information about setting up and configuring Greenplum Command Center on a Greenplum DCA, refer to the *Greenplum Data Computing Appliance Software Upgrade Guide 1.1.0.x > 1.2.0.0*, and the *Greenplum Data Computing Appliance Installation and Configuration Guide, 1.2.0.0*

Greenplum Database Software-only

Instructions for installing, configuring, and upgrading your system for Greenplum Command Center are provided in the *Greenplum Command Center 1.2 Administrator Guide*, available from [Powerlink](#).

Note: You are not required to upgrade to 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 *Command Center Administrator Guide* and more detailed information can be found in the *Greenplum Database Administrator Guide*.

Known Issues in Greenplum Command Center 1.2

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

Table 1 All Known Issues in 1.2

Issue	Description
DCA-2923	<p>Segment Health: Selecting a specific status or role in the pie charts only temporary sorts the details displayed</p> <p>After you click 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 is lost. For example, if you click on Segment Status > Down, the details below show all segments that are Down first. After 15 seconds the details revert to the order in which they were before you clicked Segment Status > Down.</p>
DCA-2762	<p>Refreshing the Command Center Console browser causes the user to be logged out</p> <p>Clicking the Refresh button in the browser window logs you out of Command Center without a warning prompt.</p>

Table 1 All Known Issues in 1.2

Issue	Description
DCA-2204	Large amounts of memory consumption Running Command Center in Internet Explorer for long periods of time can consume large amounts of memory.
DCA-3385	Unintuitive message is displayed if Adobe Flash is not installed Greenplum Command Center requires Adobe Flash. If Flash is not detected, the message that displays in the browser should be improved to be more intuitive and visually clearer.
DCA-3601	Storage Monitoring page sometimes does not show data when the time duration selected is one hour The line graph displaying disk usage on the Storage Monitor section of the Administration tab sometimes will not show any data when the Duration is changed from any other selection to 1 hour.
DVCA-2754	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.

Greenplum Command Center Compatibility

Greenplum Data Computing Appliance Platform

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

Greenplum Database and Greenplum HD Compatibility

To take advantage of all Greenplum Command Center features and functionality, we recommend that you use Greenplum Database version 4.2.1. Other versions of Greenplum Database are compatible with Greenplum Command Center (see [Table 2](#)) but have limitations (see [Table 3](#)).

Table 2 Greenplum Command Center 1.2 Compatibility Matrix

DCA	Greenplum Database	Greenplum HD
1.2	4.2.x	1.1
	4.1.x	1.1
	4.0.x	1.1

Greenplum Database Software Platform

Greenplum Command Center is compatible with Greenplum Database software version 4.0 and above. If you have been using Greenplum's earlier monitoring tool, Performance Monitor with an older Database release, we recommend you upgrade to the latest Greenplum Database.

Limitations

The table below displays the limitations of Greenplum Command Center 1.2 when using a Greenplum Database other than 4.2.1

Table 3 Greenplum Command Center 1.2 limitations by Greenplum Database Version

Feature	Greenplum Database 4.2.0.0	Greenplum Database 4.1.x	Greenplum Database 4.0.x
Cancel Query The ability to cancel a query from the Query Monitor tab	Not Supported	Not Supported	Not Supported
Storage Monitoring The Storage Monitoring section of the Administration tab	Not Supported	Not Supported	Not Supported
Query Priority The priority of the query displays in a column on the Query Monitor tab	Supported for running queries. Not supported for queued queries.	Supported for running queries. Not supported for queued queries.	Supported for running queries. Not supported for queued queries.
Set Query Priority The ability to change the priority of a query by using the drop-down menu in the Priority column on the Query Monitor tab.	Supported for running queries. Not supported for queued queries.	Supported for running queries. Not supported for queued queries.	Supported for running queries. Not supported for queued queries.
Rebalance The ability to rebalance a recovered segment from the Segment Health section of the Administration tab.	Supported	Supported	You need to restart the Database before you rebalance a recovered segment. You are prompted to do this in the UI.

Greenplum Command Center Documentation

Greenplum Command Center end-user information is provided in the online help accessible from the Command Center Console.

The following Greenplum Command Center documentation is available in PDF format from [Powerlink](#).

Table 4 Greenplum Command Center 1.2 Documentation

Title	Part Number	Revision
Greenplum Command Center 1.2 Administrator Guide	300-012-844	A01
Greenplum Command Center 1.2.0.1 Release Notes	300-013-xxx	A01

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