
Welcome to Pivotal Command Center

Pivotal Command Center provides a visual management console that helps administrators monitor cluster performance and track Hadoop job execution.

About Pivotal, Inc.

Greenplum is currently transitioning to a new corporate identity (Pivotal, Inc.). We estimate that this transition will be completed in 2013. During 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 Command Center 2.0.1

Pivotal Command Center 2.0.1 is a multi-tier graphical web application that allows you to monitor and manage your Pivotal HD 1.0.1 clusters, as well as initiating Pivotal HD 1.0.1 cluster installations via the integrated Pivotal HD Manager component. This management console enables administrators to view aggregated and non-aggregated system metrics data as well as Hadoop specific metrics for a selected cluster. Users are also able analyze and gain insights on their cluster by drilling down into specific services or categories of nodes. Metrics are provided on how a cluster is performing in real-time and trending over time.

Pivotal Command Center 2.0.1 also provides detailed monitoring capabilities for MapReduce Jobs as well as information on specific jobs and tasks. YARN (MapReduce 2.0) applications can also be monitored and basic monitoring of running HAWQ queries are shown if HAWQ is installed on the cluster.

HAWQ is a parallel SQL query engine that combines the merits of the Greenplum Database Massively Parallel Processing (MPP) relational database engine and the Hadoop parallel processing framework.

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

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What's New in this Release

Pivotal Command Center 2.0.1 is the first version of an overhauled Greenplum Command Center product. Written using Ruby on Rails, it utilizes improved web interface artifacts to provide a modern interface to managing and monitoring your Pivotal HD clusters.

Pivotal Command Center also includes Pivotal HD Manager, the Pivotal HD component that allows you to install, configure, monitor and manage the cluster. It is installed automatically with Pivotal Command Center. See the *Pivotal Command Center 2.0 Installation and User Guide* for details on installing Pivotal Command Center; see the *Pivotal HD Enterprise 1.0 Installation and Administrator Guide* for details on installing Pivotal HD 1.0.

Written using Ruby on Rails and front-end technologies such as HTML, JavaScript, CSS, and SVG. Most modern browsers will support rendering of Pivotal Command Center.

The following new functionality is in this release:

- Seamless installation of Command Center and Pivotal HD Manager through a unified installer.
- Multiple Cluster monitoring and management.
- Performance monitoring of HD services, categories, and individual nodes through cluster analysis.
- MapReduce Job Monitoring and Job details.
- YARN Application Monitoring.
- HAWQ Queries (if applicable).

Requirements

- Java: Oracle JDK is required to be installed prior to a cluster installation. This step is including in the installation process described in the *Pivotal HD Enterprise 1.0 Installation and Administrator Guide*.

Supported Platforms

- Red Hat Enterprise License (RHEL): 6.1 - 64 bit; 6.2 - 64 bit
- CentOS: 6.1 - 64 bit; 6.2 - 64 bit

Resolved Issues in Pivotal Command Center

This section lists issues that have been resolved in Pivotal Command Center since release 2.0.

Table 1 Resolved Issues in Pivotal Command Center 2.0.1

Issue	Description
HD-2532	Installation: HD Cluster had to be started with <code>-f</code> option. A HD cluster appeared to be successfully deployed, but could only be started using the <code>-f</code> option to force start it.
HD-2511	<code>totalMapRunning</code> and <code>totalReducerRunning</code> were always empty when using URL such as: <code>/v1/clusters/<cluster_id>/services/<mapreduce>/metrics/slot_utilization</code>
HD-2476	Utilization, job status, and namenode trends API return incorrect start and end times. The calculation for the end time was sometimes wrong by one interval slot.
HD-2436	Install "ruby" and "facter" from Admin's local repo onto all cluster nodes: You may have had to install/upgrade ruby and facter on all the cluster nodes.
HD-2386	A cluster node could not be on the same host as the Admin node.
GPCC-190	Quick, successive selections/clicks in the Command Center UI was slowing performance.

Known Issues in Pivotal Command Center

This section lists the known issues in Pivotal Command Center 2.0.1. A work-around is provided where applicable.

Table 2 All Known Issues in Pivotal Command Center

Issue	Description
N/A	This version of Pivotal Command Center 2.0.1 only supports Pivotal HD 1.0.1. It does not yet support DCA hardware and Greenplum DB monitoring and management.
N/A	Pivotal Command Center and Pivotal HD must have the same OS.
HD-2209	After uninstalling a cluster, some of the following RPMs may be left behind: <ul style="list-style-type: none"> • <code>bigtop-jsvc.x86_64</code> • <code>bigtop-utils.noarch</code> • <code>zookeeper.noarch</code> • <code>zookeeper-server.noarch</code>
HD-2477	Job History web URL is not correct: The resource manager Dashboard UI history link directs to the job history server. As it uses a short hostname instead of a fully qualified domain name as the job history server hostname, it will fail from outside the domain browser.
N/A	Pivotal HD Manager currently does not support upgrading or downgrading the Hadoop version on the entire cluster.
N/A	Pivotal Data Loader, USS, Mahout, Sqoop, Flume, and Spring Hadoop cannot be installed via the Pivotal HD Manager. See the <i>Pivotal HD Enterprise 1.0 Installation and Administrator Guide</i> for further details on installing these components.
N/A	Pivotal Command Center hostnames must only contain lower case letters.

Table 2 All Known Issues in Pivotal Command Center

Issue	Description
HD-2537	Installation: IP addresses are not supported in this release.
N/A	Pivotal Command Center 2.0.1 has not been tested with, and may not work with Pivotal HD version 1.0.0.
N/A	<code>bundle: command not found</code> error message appears after attempting to run the install script. Workaround: Check if <code>/usr/local/bin/bundle</code> exists, if it doesn't, build it by running the following command: <code>gem install bundler</code>
GPCC-252	Command Center status page: If the status of a cluster is anything other than 'started' (including blank), the cluster name is grayed out/disabled and you cannot click on the cluster name to navigate to information about that cluster. Workaround: Stop (if not already stopped), then restart the cluster.
GPCC-256	Command Center Yarn Monitor page: If you click on a "Pending" application, you will get a "GPHD Manager is down" error message. Once the status of the application changes to "Running", you can click on it without an error message being displayed.
GPCC-270	Upgraded Command Center not showing graphs for CPU, Network Bandwidth. Workaround: Change the <code>port</code> value in the <code>nmon-site.xml</code> file to 10432: <pre><uri> <value>localhost:10432</value> <description>The ip:port for contacting the database</description> </uri></pre>
GPCC-269	HBASE did not start after user stop/start HDFS and YARN.
GPCC-267	<code>service commander stop</code> results in ERROR.
GPCC-260	User can not log out from HAWQ Queries if HAWQ is stopped.

Pivotal Command Center Documentation

The following Pivotal Command Center and related documentation is available in PDF format on our website at www.gopivotal.com.

Additionally, you can still access product documentation from EMC's [Support Zone](#):

Table 3 Pivotal Command Center 2.0.1 and Related Documentation

Title	Revision
Pivotal Command Center 2.0.1 Release Notes (this document)	A02
Pivotal Command Center 1.0 Installation and User Guide	A03
Pivotal HD Enterprise 1.0 Installation and Administrator Guide	A05
Pivotal HD DataLoader 2.0 Installation and User Guide	A02
Pivotal HD Stack and Tool Reference Guide	A03
Pivotal ADS 1.1 Administrator Guide	A03
HAWQ 1.1.0.1 Installation Guide	A06

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