

Pivotal Command Center

Version 2.2.1

Rev: A01 – April 30, 2014

This document provides information related to the Pivotal Command Center 2.2.1 release. It includes the following topics:

- Welcome to Pivotal Command Center
- What's New
 - User Management
 - Logging
- Resolved Issues
- Known Issues
- Versioning and Compatibility
- Documentation

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Welcome to Pivotal Command Center

Pivotal Command Center (PCC) is a multi-tier graphical web application that allows you to configure, deploy, monitor, and manage your Pivotal HD clusters. PCC 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 also provides:

- Detailed monitoring capabilities for MapReduce Jobs, as well as information on specific jobs and tasks.
- Monitoring capabilities for YARN (MapReduce 2.0) applications.
- Basic monitoring of running HAWQ queries if HAWQ is installed on the cluster. HAWQ is a parallel SQL query engine that combines the advantages of the Greenplum Database Massively Parallel Processing (MPP) relational database engine and the Hadoop parallel processing framework.



Pivotal Command Center 2.2 has been tested with Pivotal HD Enterprise 2.0

What's New

As well as general performance enhancements and bug fixes, this release includes the following new features and functionality:

User Management

User management has been improved by the introduction of a new non-administrative user type.

Administrative users can create new users; during this process they specify whether the new user has administrative privileges or not. If not, the new user will only have read-only privileges and their actions and menu options will be limited.

Further details are provided in the *Pivotal Command Center 2.2 User Guide*.

Logging

You can now view system logs via the Command Center UI.

- **Filters:** You can filter the logs displayed by log level, host, or roles.

- **Search:** You can filter the logs displayed by performing a keyword search.
- **Time Range:** You can further filter your results by specifying a time range.
- **Details:** You can see summaries of log messages, or click to see more details.

Further details are provided in the *Pivotal Command Center 2.2 User Guide*

Resolved Issues

This section lists issues that have been resolved in Pivotal Command Center 2.2.1



For resolved issues relating to the installation and any non-UI functionality of Command Center, see the Pivotal HD Release Notes.

Issue	Description
HD-9504	For larger clusters; PCC was unable to display HBase status.
CC-3274	The installation will fail if the shell is using a non-UTF8 locale.
CC-3311	The status of a running Command Center (<code>commander status</code>) was incorrectly shown as <code>stopped</code> .
CC-3540	Due to permissions issues, during PCC installation, puppetmaster failed to start with the following error: "Could not prepare for execution: Invalid group: 0"
CC-3337	Installation of PCC failed when <code>"/usr/local/bin"</code> was not specified in <code>\$PATH</code> . PCC installation appeared successful despite a hidden error reported during installation. Thin service was not started and commander database was not created post installation.
CC-3325	Not all PCC (<code>commander</code>) services could not be stopped after attempt to <code>commander start</code> failed. Now the <code>service commander stop</code> will attempt to stop all services regardless of whether any of them are already running and will throw appropriate error messages after running the <code>service commander status</code> command
CC-3254	PCC Cluster Status page: After being clicked, the label on the Start button turned into Uninstall .
CC-2987	Web application vulnerabilities as a result of cross-site request forgery have been addressed.

Known Issues

This section lists the known issues in Pivotal Command Center 2.2. A work-around is provided where applicable.



For known issues relating to the installation and any non-UI functionality of Command Center, see the Pivotal HD Release Notes

Issue	Description
HD-9912	Known issue with Apache JIRA HDFS-5557 : <i>Write pipeline recovery for the last packet in the block may cause rejection of valid replicas</i> . Customers are advised to be aware of this rare HDFS anomaly and should feel free to contact Pivotal support if they see symptoms similar to the ones mentioned in HDFS-5557. This bug only impacts Apache Hadoop 2.2 release, and will be resolved once Pivotal HD moves to more recent Hadoop release (> Hadoop 2.2).
HD-9474, HD-9410	PCC has the following known limitations when monitoring a secure cluster (where kerberos authentication is enabled): HD-9474: Unable to display Hive Metastore status HD-9410: Unable to perform HDFS rebalancing
CC-3420	If the user does not define a secondary namenode during installation, an empty xml tag is added to the configuration file.
CC-3553	As the <code>gpadmin</code> user; you can remove admin privileges for yourself. Workaround: On the admin node, use the <code>commander-user</code> command line utility with the <code>admin</code> option (make sure <code>/usr/local/bin</code> is in the path, the full path of the utility is <code>/usr/local/bin/commander-user</code>): <code>./commander-user admin</code> You will receive the following two prompts: 1. 'Please provide a username' (Valid input: any user in PCC) 2. 'Allow the user to have administrative privileges' (Valid input: <code>[y]es [n]o</code>)
CC-3494	Install/Upgrades: If the RHEL ssl certificate for subscription-manager plugin has expired, yum will fail. Workaround: If <code>yum -list</code> reports an error on any of the cluster nodes then check the yum configurations files, <code>/etc/yum.repos.d/</code> and make sure all remote repositories are DNS resolvable.
CC-3339	The ability to start/stop HAWQ via the PCC UI is non-functional. Workaround: Use the PCC CLI to start / stop HAWQ. See the <i>Pivotal HD Enterprise Installation and Administrator Guide</i> for specific commands.
HD-8493	Unable to configure cluster if the root password contains certain special characters, for example: <code>\$</code>
CC-3305	If a running job is killed, the PCC UI MapReduce Slot Utilization Graph shows incorrect information.
CC-3083	Command Center does not show any data for graphs related to DataNode due to hostname mismatch. Workaround: Change <code>/etc/sysconfig/network</code> on all cluster nodes to use Fully Qualified Domain Names (FQDN).

Issue	Description
HD-6715	<p>After you upgrading PCC, you are unable to start/stop clusters with invalid hostnames. This is because there is now a check for invalid characters in cluster names.</p> <p>Workaround: Reconfigure the cluster with a different, valid name, then restart the cluster.</p>
CC-3563	Pivotal Command Center 2.2.n only supports Pivotal HD 2.0.n. It does not support Greenplum HD.
CC-3564	Pivotal Command Center and Pivotal HD must have the same OS.
CC-3501	Pivotal Command Center hostnames can only contain lower case letters.
CC-1972	<p>HBASE did not start after user stop/start HDFS and YARN.</p> <p>This is expected behavior, in this case, HBASE requires a manual restart.</p>
CC-3565	<p>bundle: command not found error message appears after attempting to run the install script.</p> <p>Workaround: Check if <code>/usr/local/bin/bundle</code> exists, if it doesn't, build it by running the following command:</p> <pre>gem install bundler</pre>

Versioning and Compatibility

Product	Version	OS/Browser
Pivotal HD	2.0.1	RedHat 64-bit: 6.2, 6.4 CentOS 64-bit: 6.2, 6.4
Pivotal Command Center	2.2.1	RedHat 64-bit: 6.2, 6.4 CentOS 64-bit: 6.2, 6.4 Firefox 21, 22 Chrome Version 28.0.1500.95 IE 9, 10
HAWQ *	1.2.0.1	RedHat 64-bit: 6.2, 6.4 CentOS 64-bit: 6.2, 6.4
PXF *	2.2	RedHat 64-bit: 6.2, 6.4 CentOS 64-bit: 6.2, 6.4

* Distributed with Pivotal ADS 1.2

Documentation

The following Pivotal HD Enterprise and related documentation is available in HTML and PDF format on our website at docs.gopivotal.com/pivotalhd/. Documentation for previous releases is available from EMC's [Support Zone](#).

Title	Revision
Pivotal Command Center 2.2.1 Release Notes (this document)	A01
Pivotal Command Center 2.2 User Guide	A02
Pivotal HD Enterprise 2.0 Installation and Administrator Guide	A02
Pivotal HD 2.0 Stack and Tool Reference Guide	A02
Pivotal HAWQ 1.2 Administrator Guide	A02
Pivotal HAWQ 1.2 Installation Guide	A02
Pivotal Extension Framework 2.2 Installation and User Guide	A02