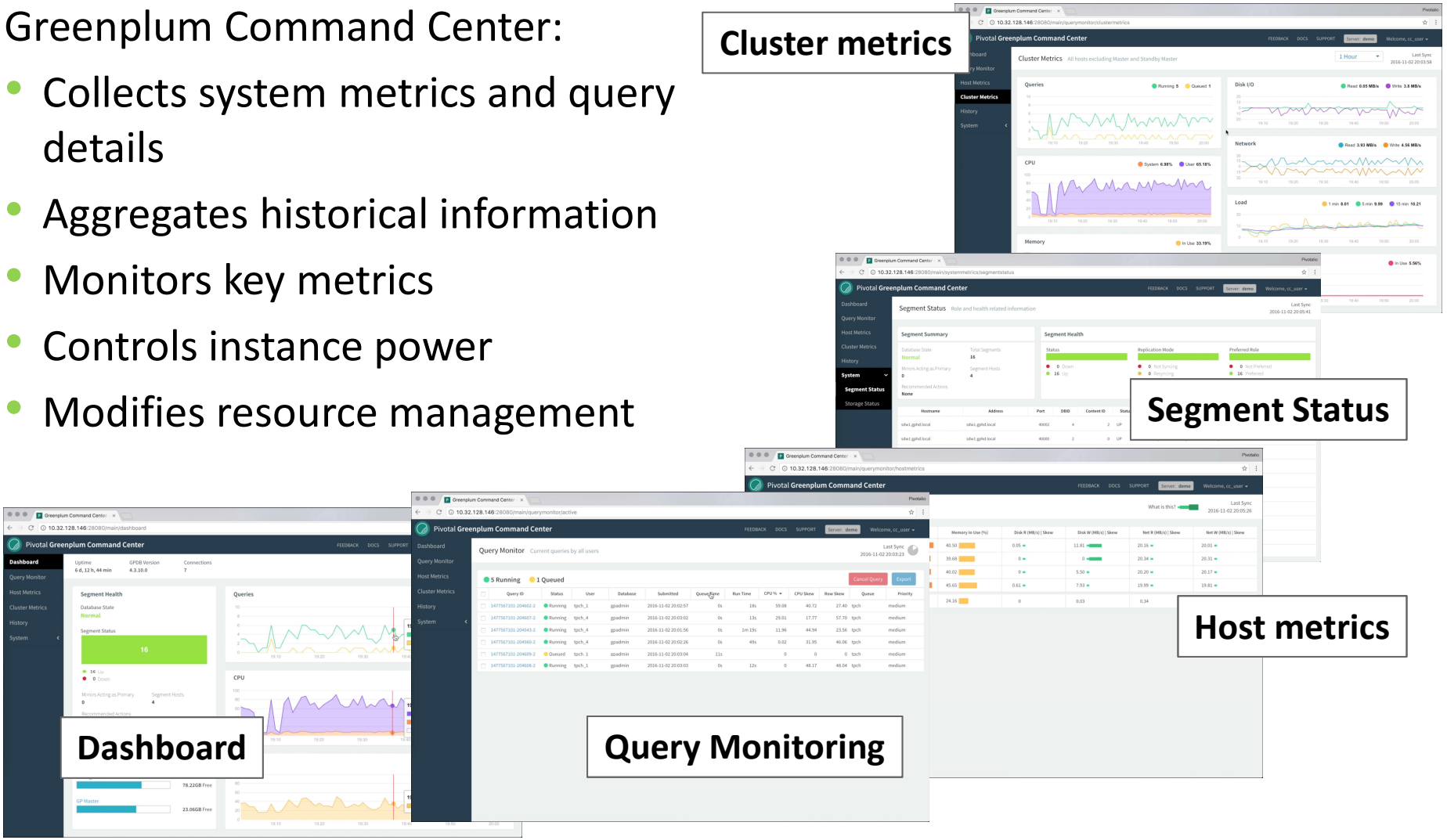
GPDB Command Center

Pivotal® Greenplum Database

Greenplum Command Center Overview

Greenplum Command Center:

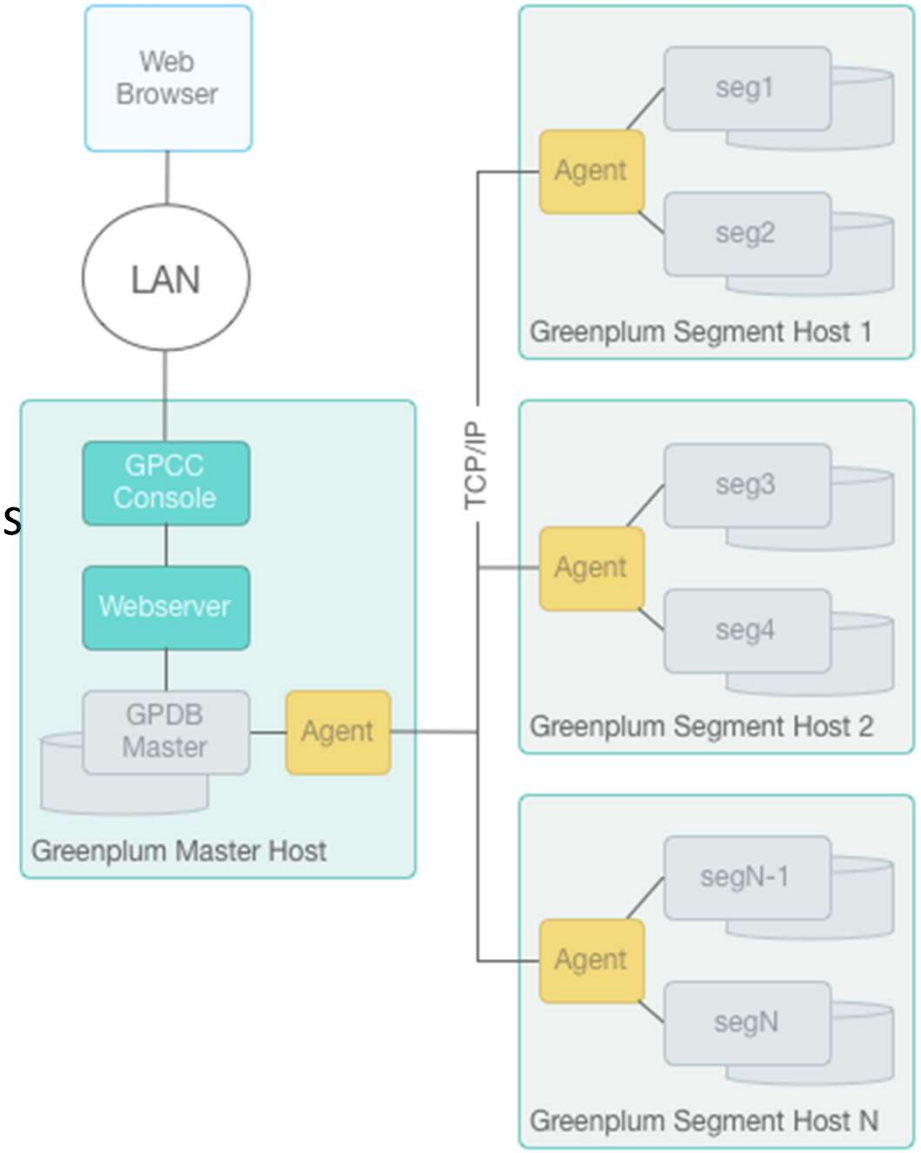
- Collects system metrics and query details
- Aggregates historical information
- Monitors key metrics
- Controls instance power
- Modifies resource management



Greenplum Command Center Architecture

Greenplum Command Center:

- Installs GPCC on Greenplum Master and Standby hosts
- Installs GPCC Agents on all Segments (including the Master and Standby)
- Collects system metrics and query details
- Aggregates historical information
- Monitors key metrics
- Controls instance power
- Modifies resource management



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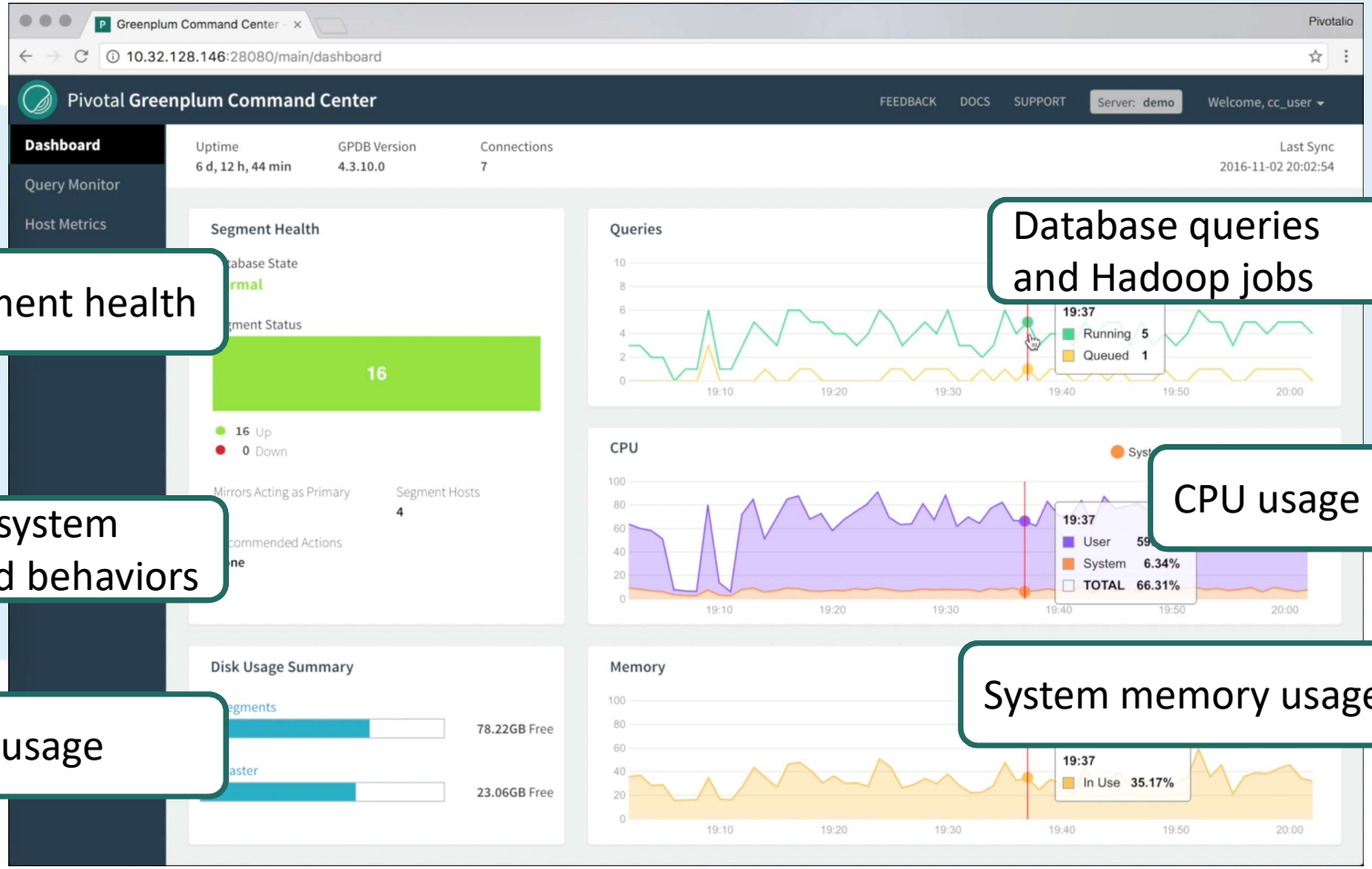
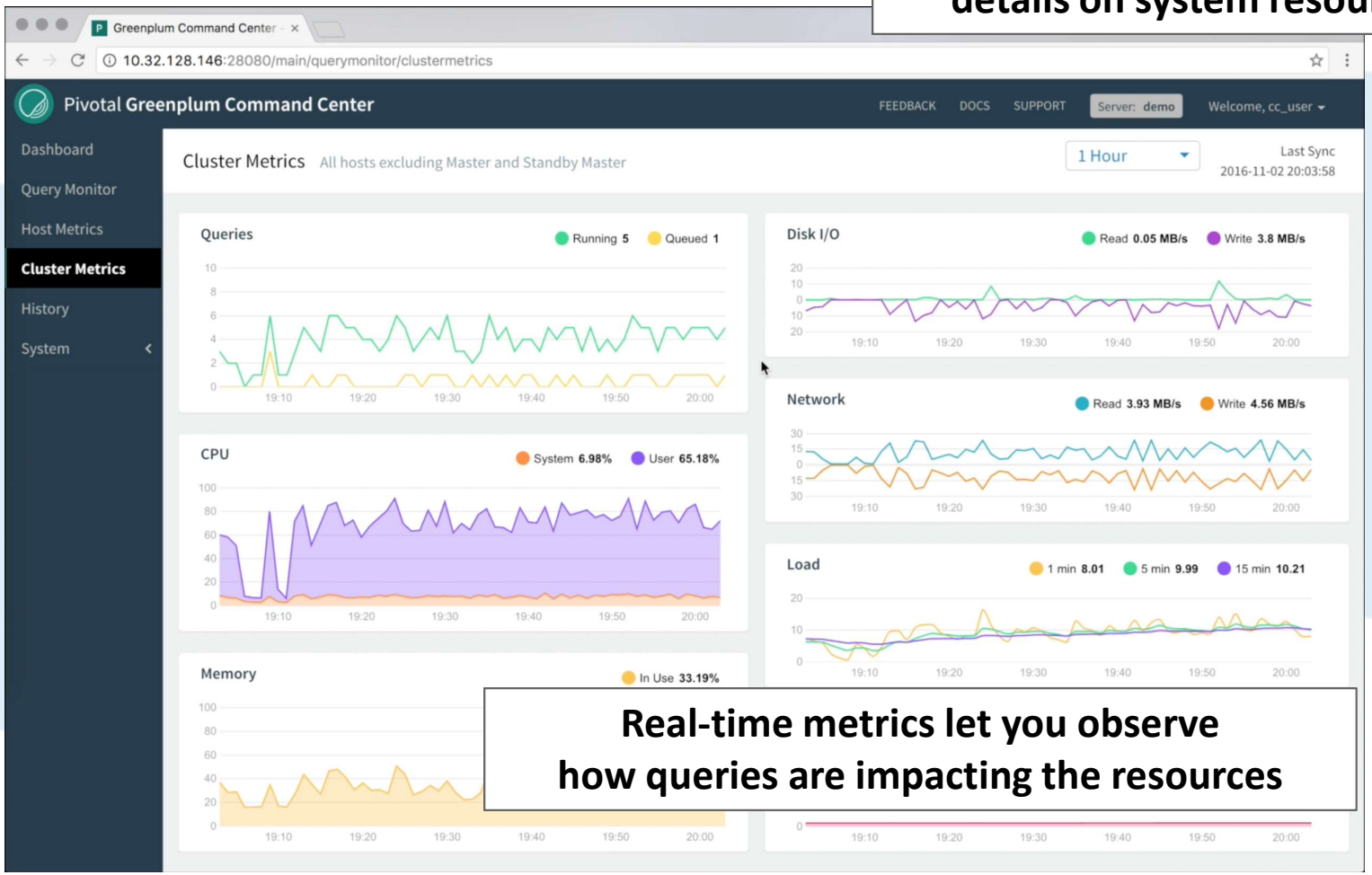
Monitoring and Managing with Greenplum Command Center



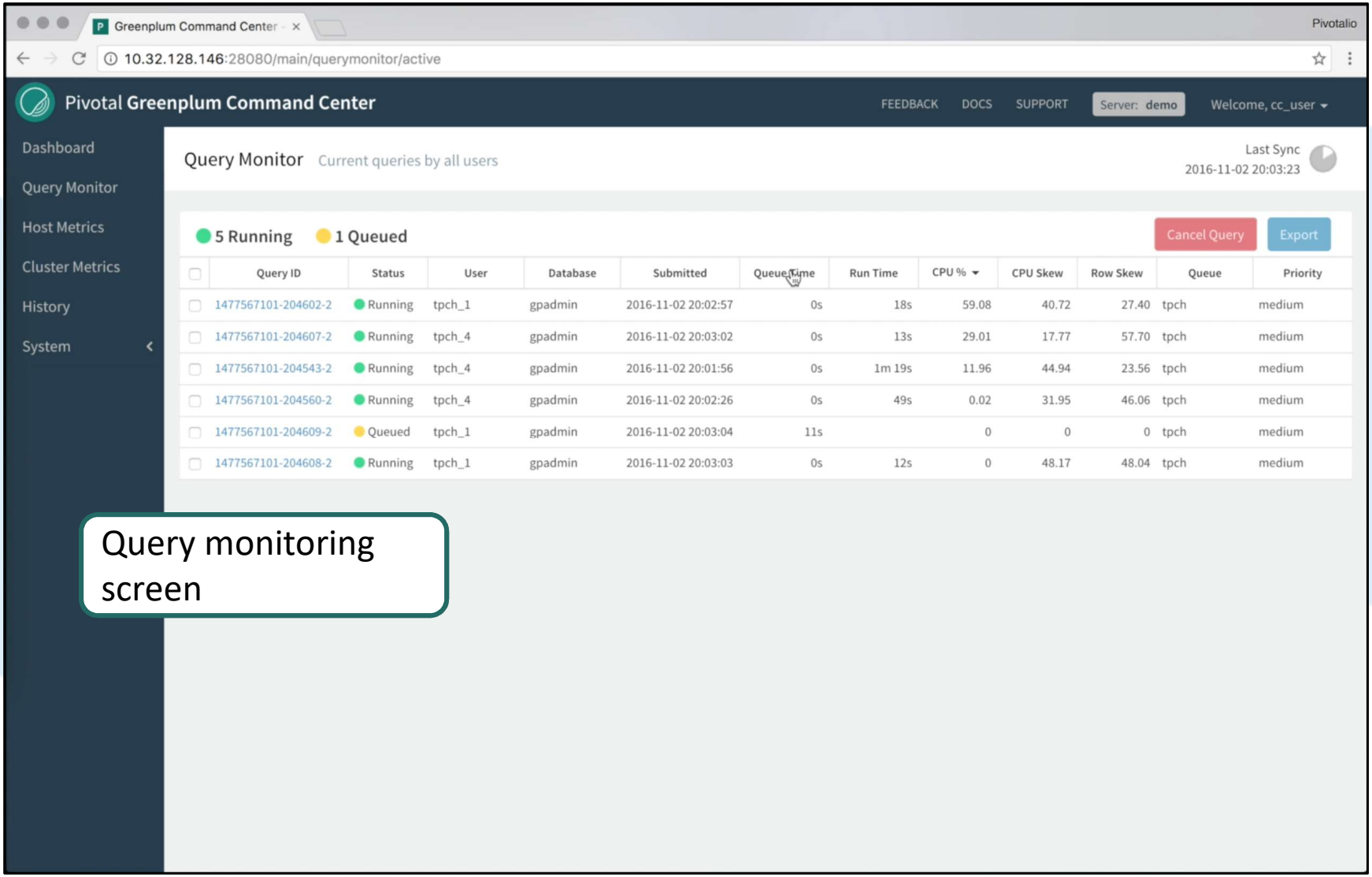
Cluster Metrics

Cluster Metrics provide greater details on system resources



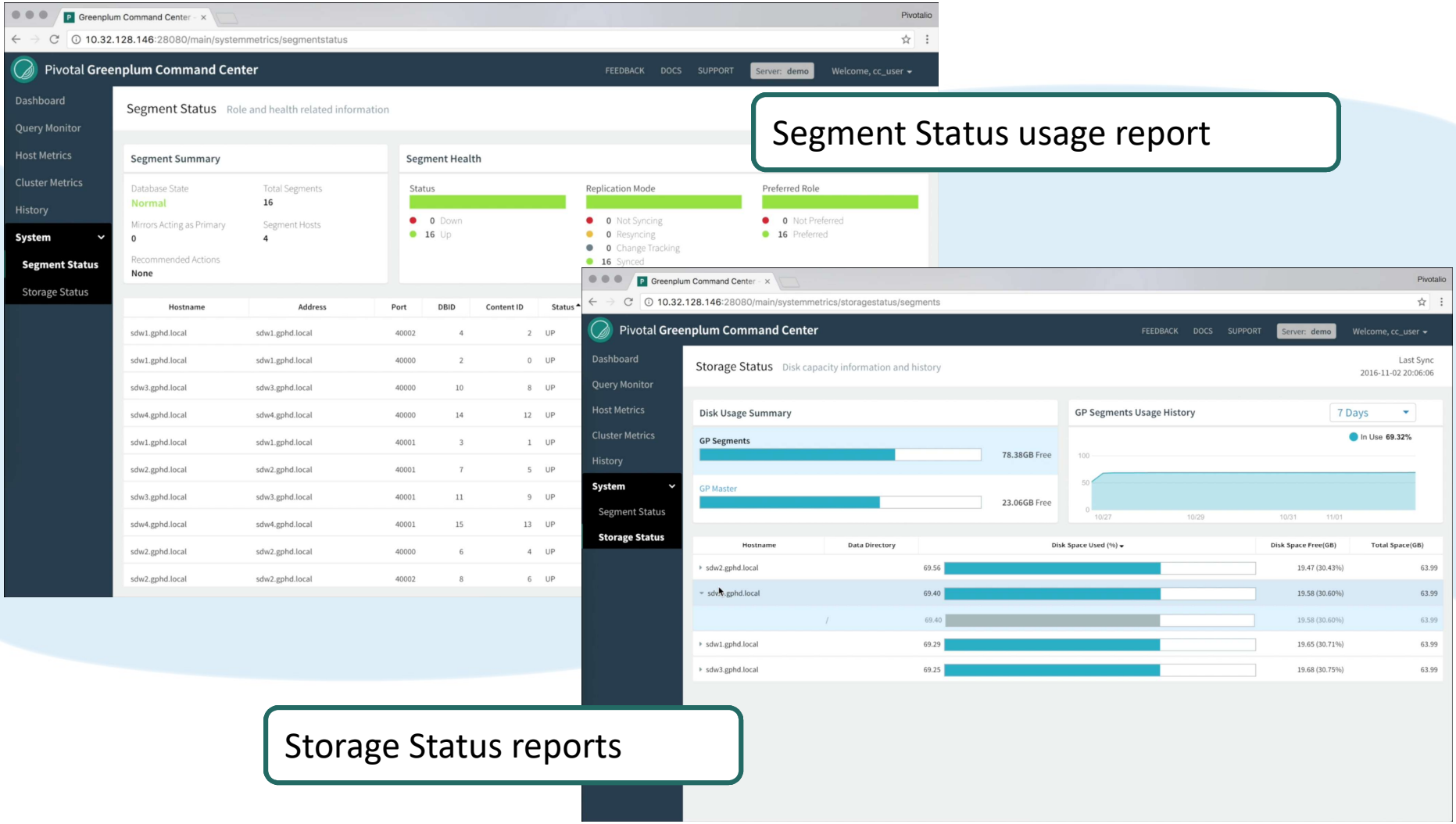
Real-time metrics let you observe how queries are impacting the resources

Interactive Management of Queries

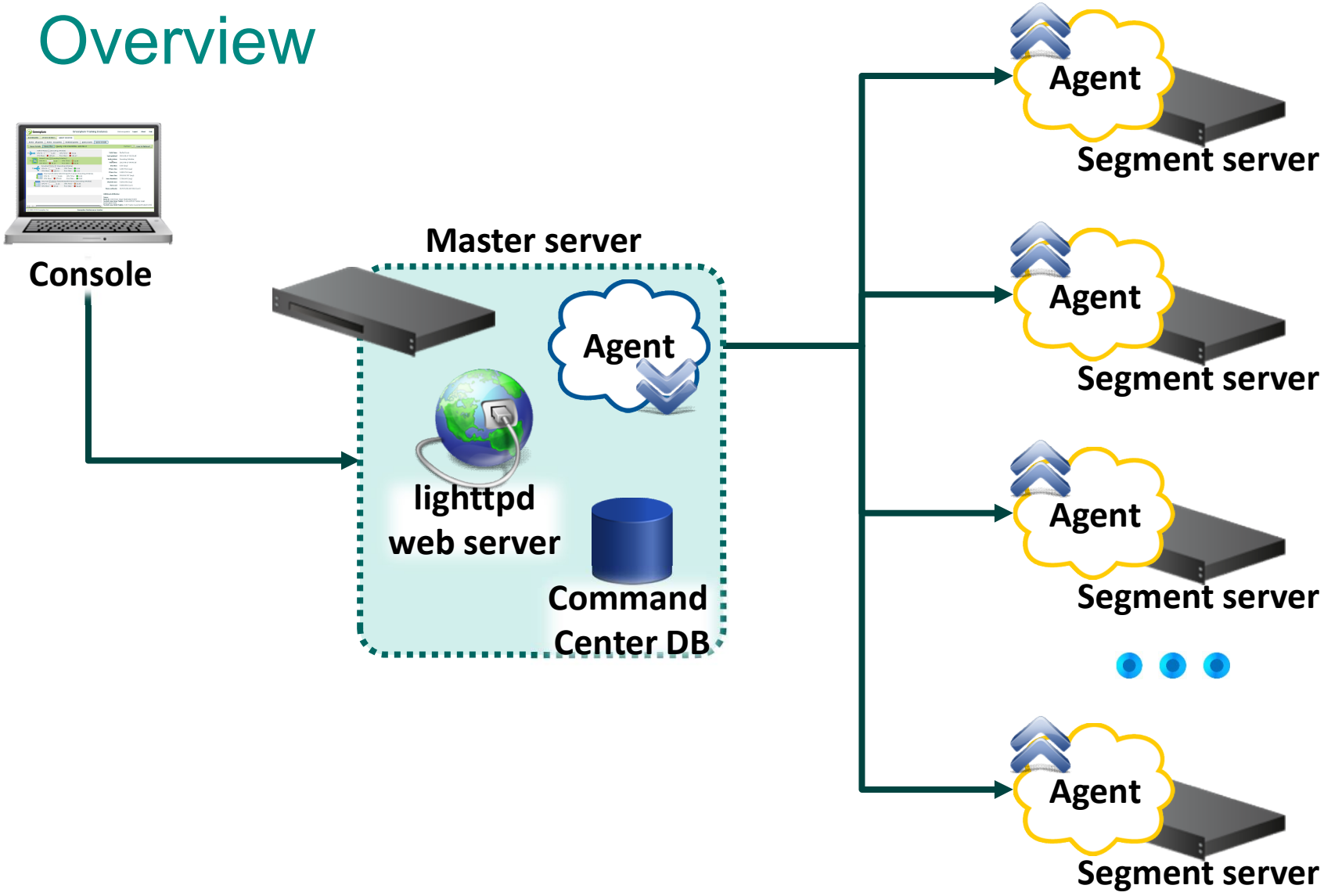


Query monitoring screen

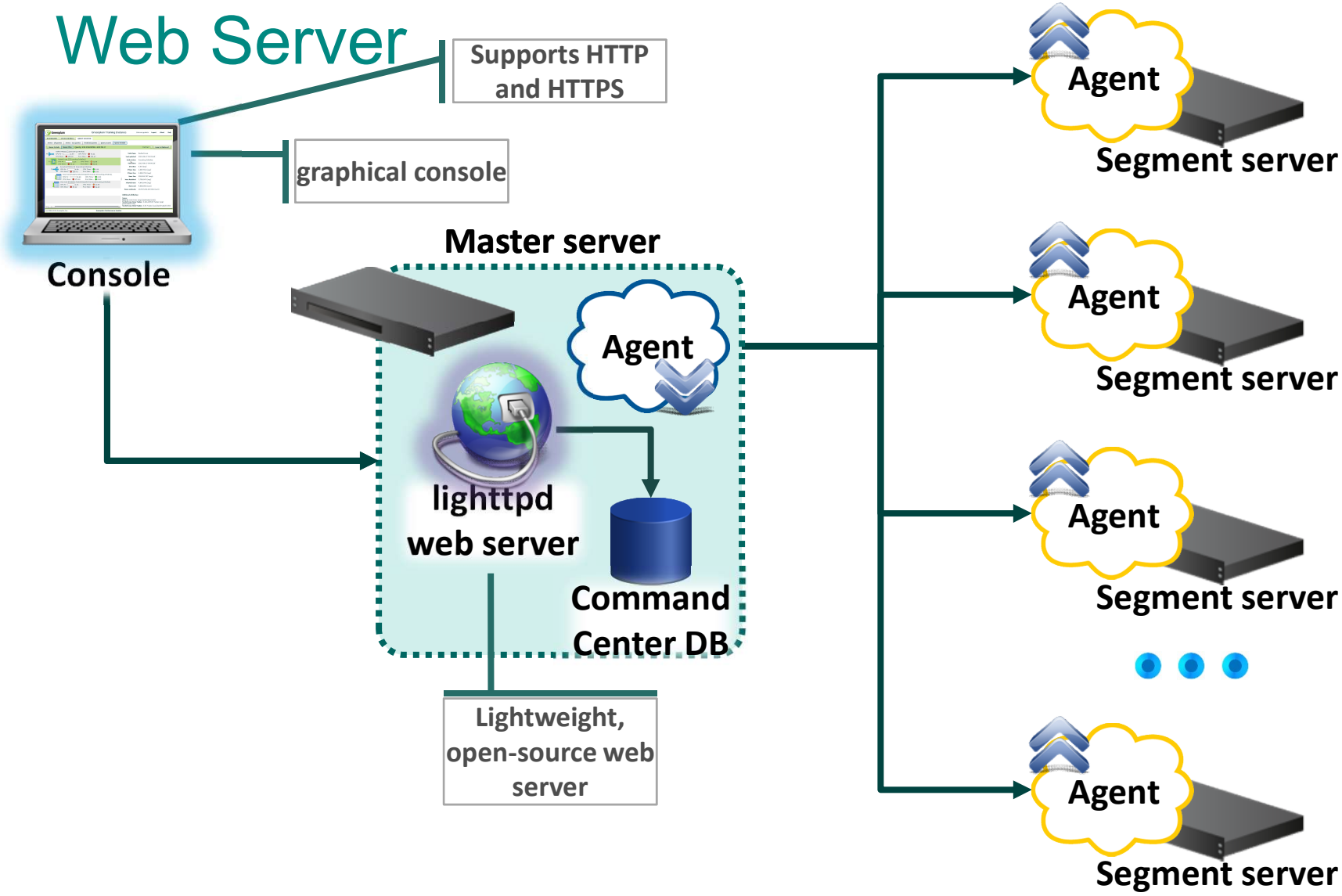
Segment Status and Storage Status Reports



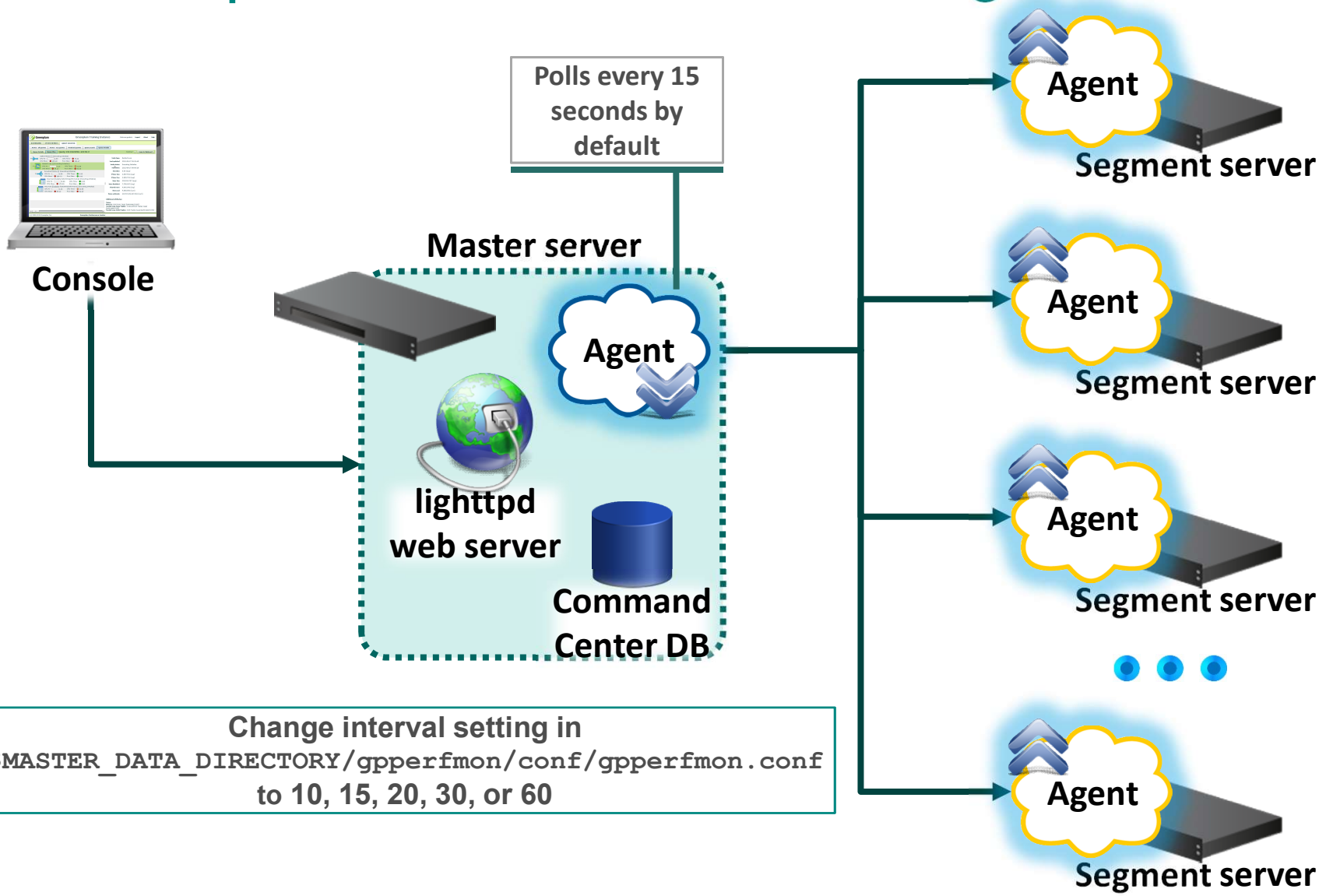
Greenplum Command Center Architectural Overview



Greenplum Command Center Console and Web Server



Greenplum Command Center Agents



Change interval setting in
`$MASTER_DATA_DIRECTORY/gpperfmon/conf/gpperfmon.conf`
to 10, 15, 20, 30, or 60

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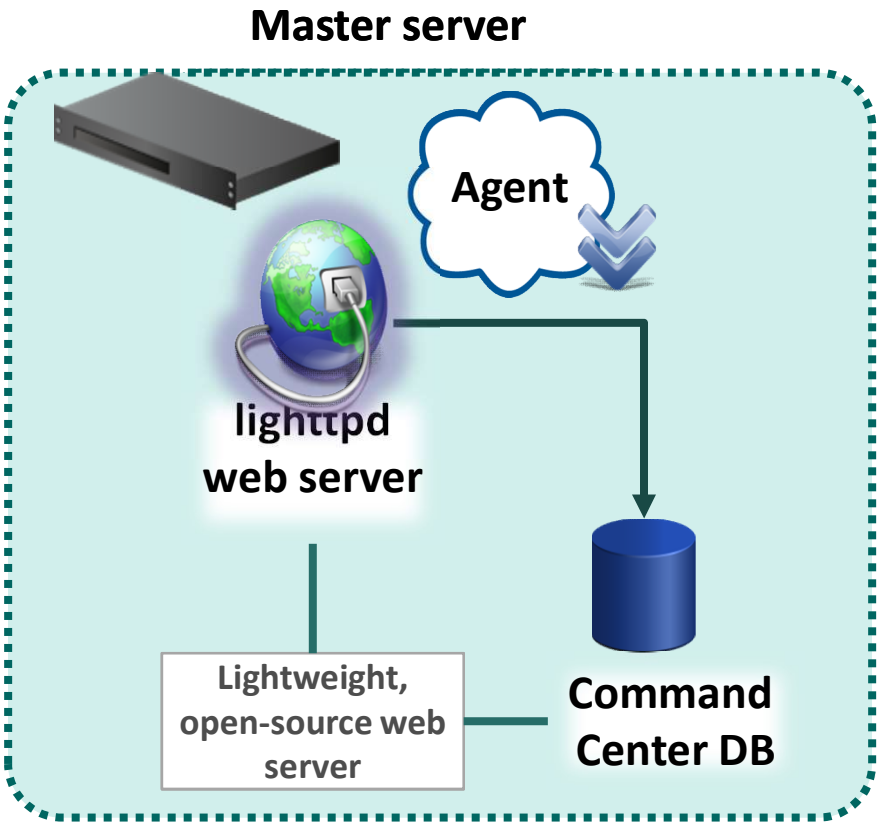
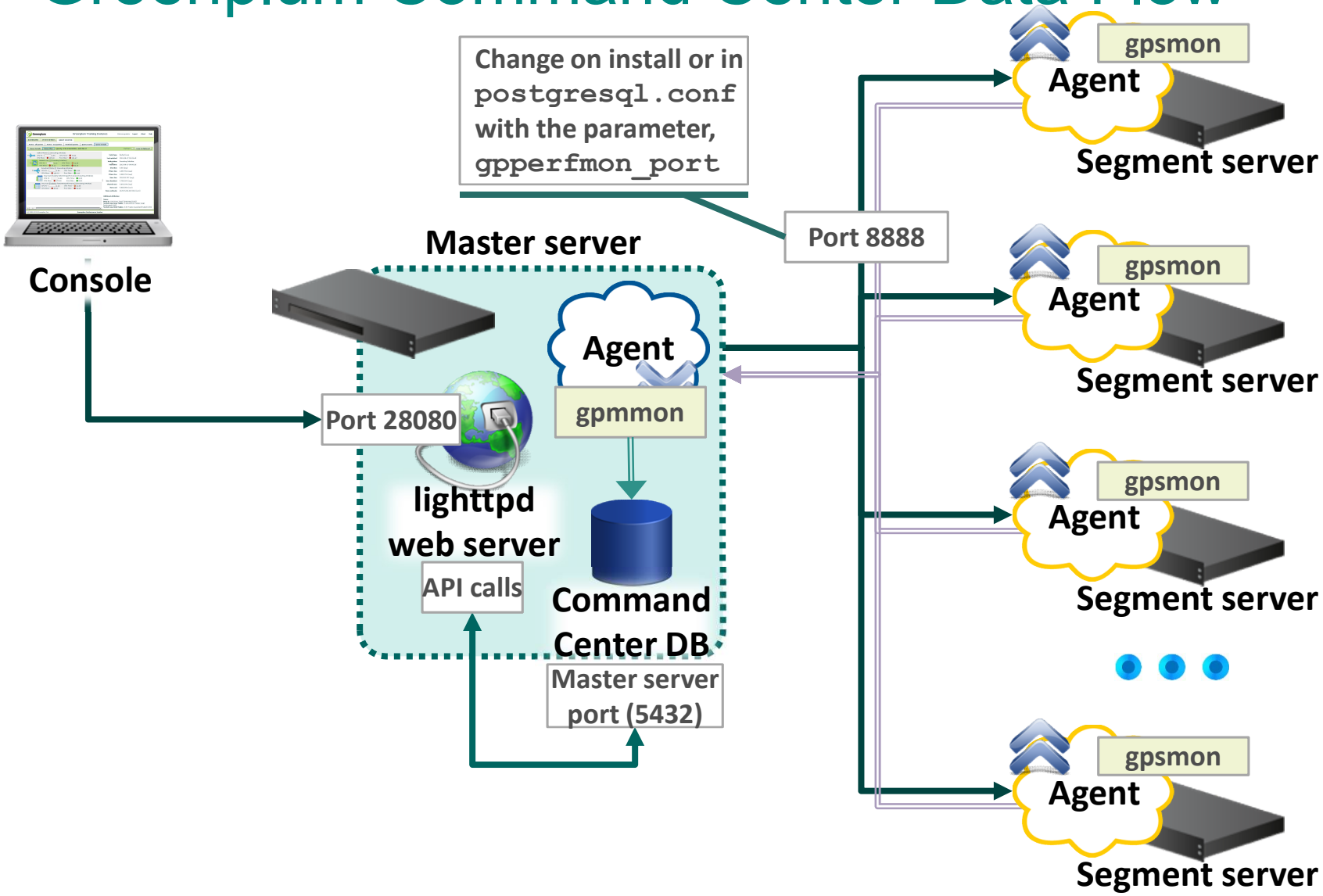
Greenplum Command Center Database

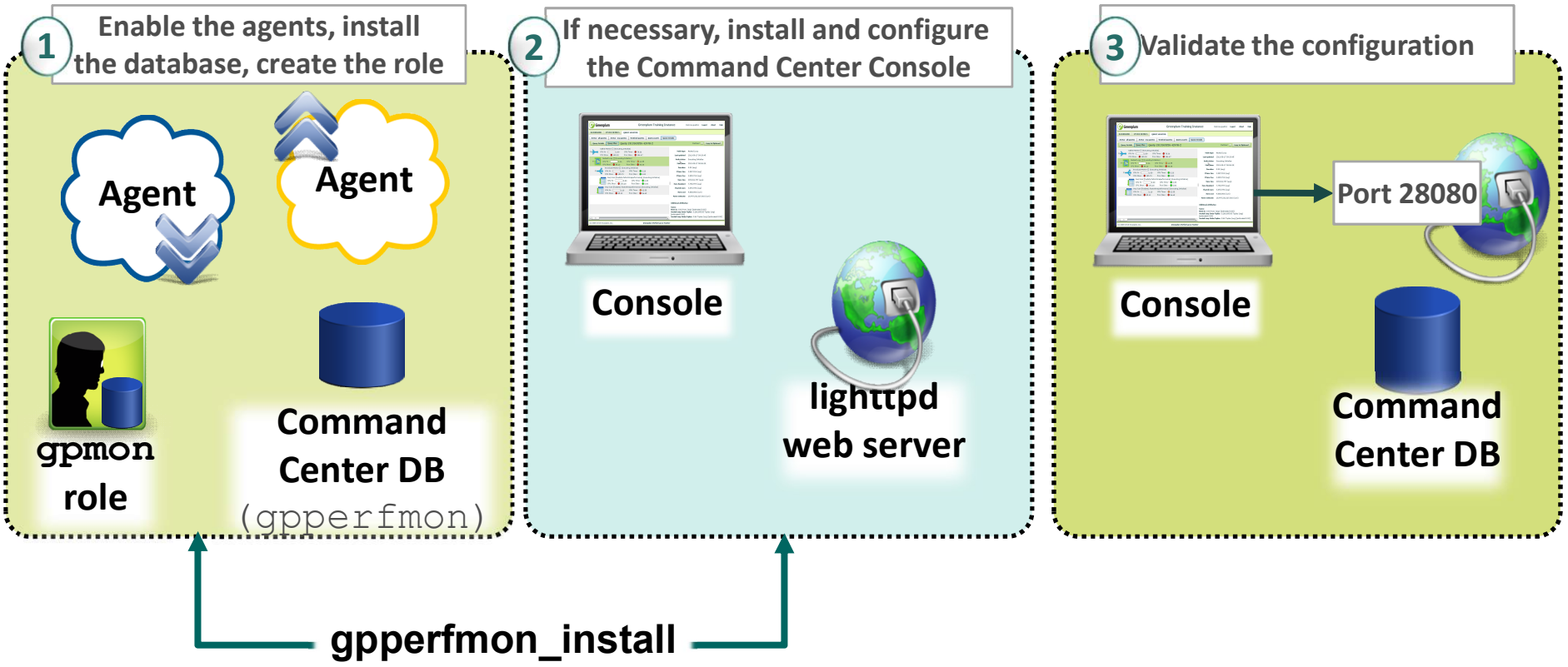
Command Center stores the data collected by the agents in to the gpperfmon database under the `gpmon` role.



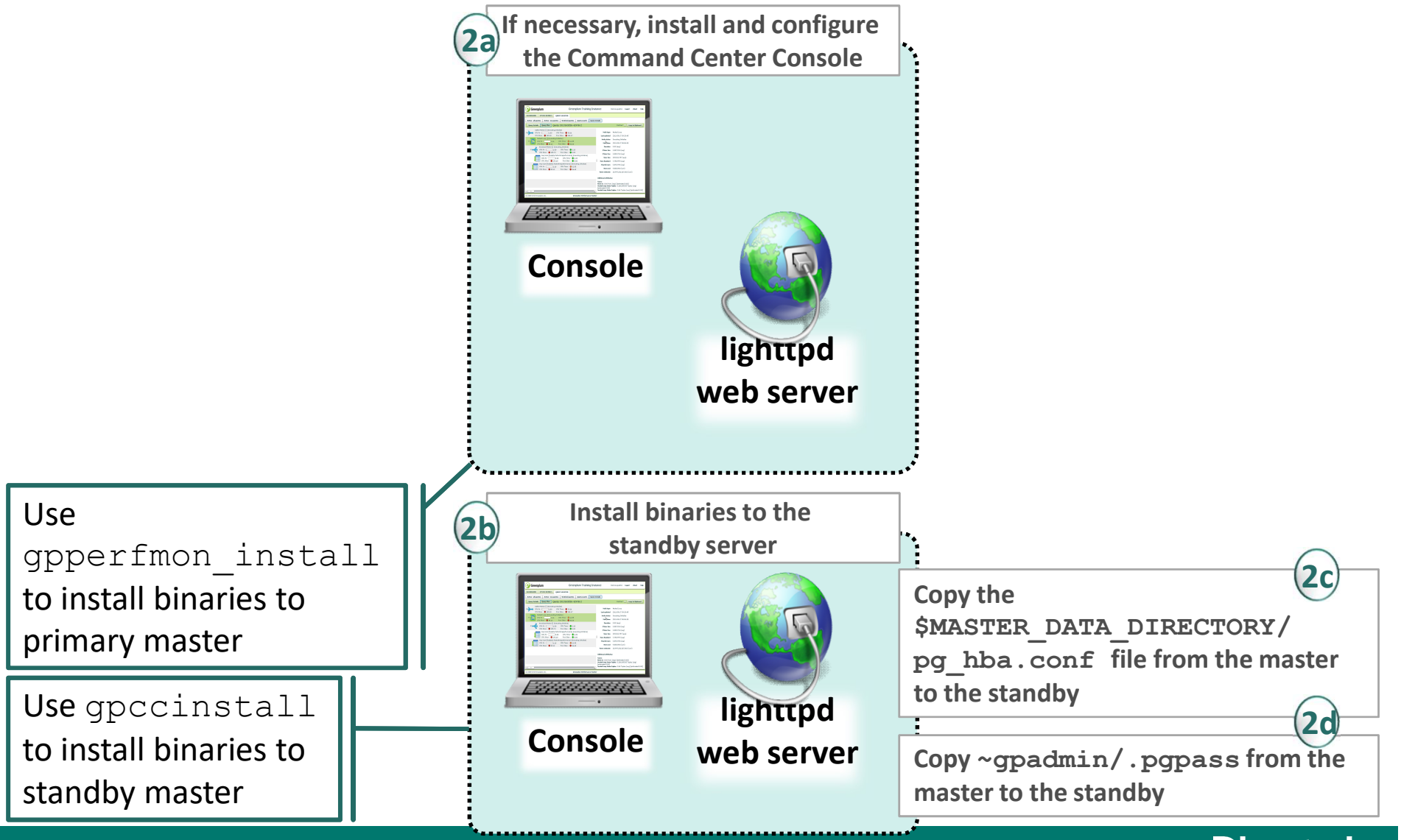
Greenplum Command Center Data Flow



Configuring Greenplum Command Center



Configuring the Standby Server



Greenplum Command Center Users and Roles

Superuser

- Uses all Command Center features
- Can view all database queries
- Can access all metrics
- Can perform all administrative tasks

Requires MD5-encrypted password by default

Operator

- This is a role that you must create in Greenplum
- Assign GPDB users to the role
- Can view and cancel all queries
- Limited administrative task access

Regular User

- All GPDB users have access
- Can only view their own database queries
- Cannot access the Administrative tab

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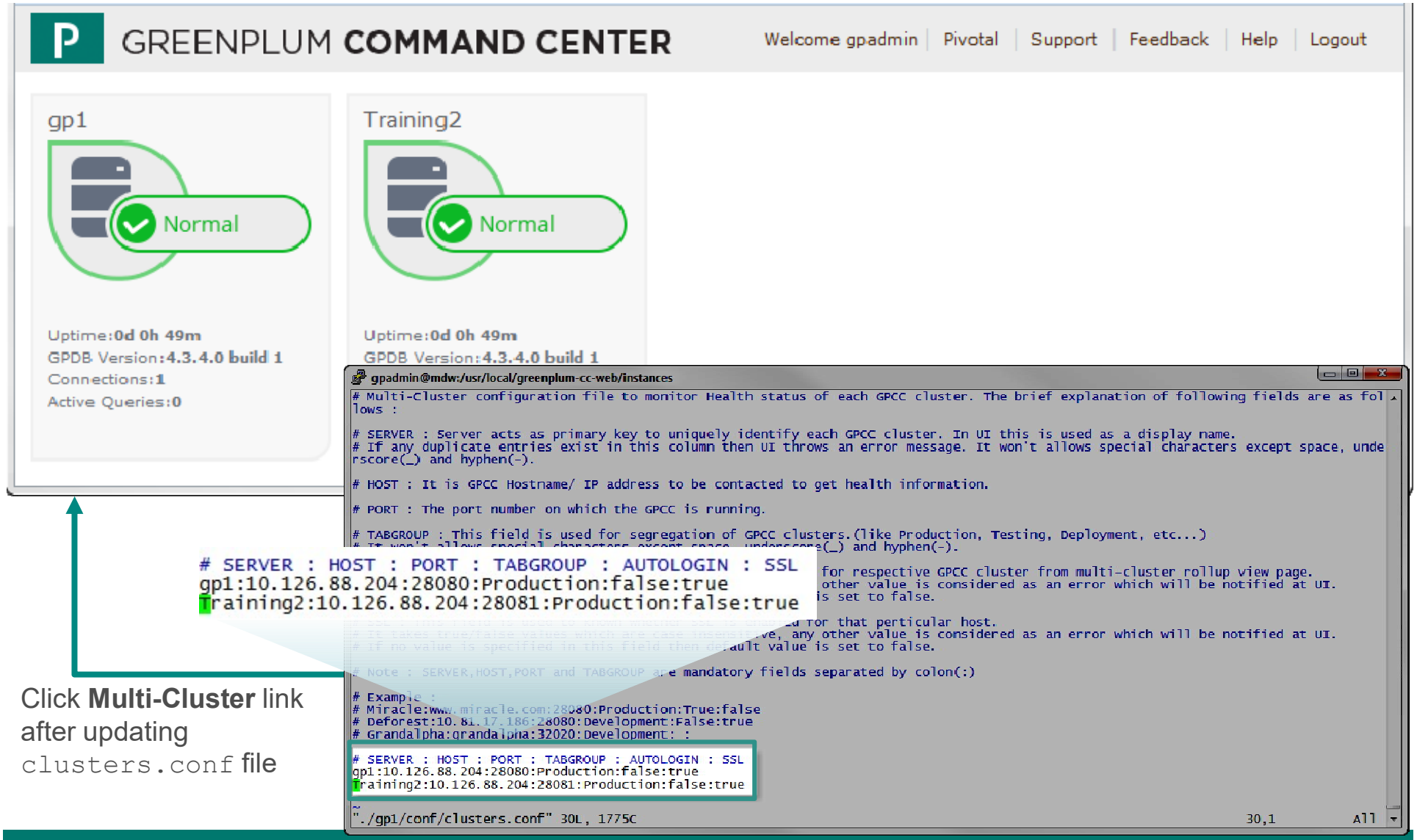
Multi-Cluster Support



Click **Multi-Cluster** link after updating `clusters.conf` file

Defining and Managing Console Instances

`gpcmdr` Option	Description
`--setup`	Configure a unique Greenplum Command Center instance
`--restart [instance]`	Restart Greenplum Command Center instance(s)
`--start [instance]`	Start Greenplum Command Center instance(s)
`--stop [instance]`	Stop Greenplum Command Center instance(s)
`--status [instance]`	Display Greenplum Command Center instance information

Instance information is stored in
`$GPPERFMONHOME/instances/<instance_name>`

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Accessing Console Log Files

gpadmin@mdw:/usr/local/greenplum-cc-web/instances/gp1/logs

```
10.96.50.71 10.126.88.204:28080 - [04/Mar/2015:08:42:18 -0500] "GET /hea
lthinfo?serverName=gp1&callback=_jqjsp&_1425480517983= HTTP/1.1" 200 316
 "https://10.126.88.204:28080/multiCluster?auto" "Mozilla/5.0 (Windows N
T 6.1; WOW64; rv:35.0) Gecko/20100101 Firefox/35.0"
10.96.50.71 10.126.88.204:28080 - [04/Mar/2015:08:42:48 -0500] "GET /hea
lthinfo?serverName=gp1&callback=_jqjsp&_1425480547985= HTTP/1.1" 200 316
 "https://10.126.88.204:28080/multiCluster?auto" "Mozilla/5.0 (Windows N
T 6.1; WOW64; rv:35.0) Gecko/20100101 Firefox/35.0"
```

lighttpd-access.log

gpadmin@mdw:/usr/local/greenplum-cc-web/instances/gp1/logs

```
2015-02-25 10:12:48: (log.c.164) server started
2015-02-25 10:21:34: (connections.c.305) SSL: 1 error:1407609C:SSL routi
nes:SSL23_GET_CLIENT_HELLO:http request
2015-02-25 10:22:03: (server.c.1563) server stopped by UID = 501 PID = 6
732
2015-02-25 10:22:22: (log.c.164) server started
2015-02-27 12:45:26: (log.c.164) server started
2015-03-03 09:37:53: (server.c.1563) server stopped by UID = 501 PID = 9
150
```

lighttpd-error.log

gpadmin@mdw:/usr/local/greenplum-cc-web/instances/

```
2015-02-25 10:12:48,508 - gpmonws started
2015-02-25 10:12:48,512 - Configuration file: {'GPMMON': {'quantum': 15}
, 'WEB_APP': {'allowautologin': 'True', 'server_name': 'traindb', 'diskt
hresholdvalue': '80', 'maxconnections': '10', 'ssh_full_path': 'ssh', 't
imeout': '1800', 'master_port': '5432', 'csrf_protect': 'False', 'ssl_en
abled': 'True', 'pollinterval': '30000', 'securedbhealth': 'False'}}
2015-02-25 10:12:48,512 - remote = False
2015-02-25 10:12:48,512 - verbose = False
2015-02-25 10:12:48,512 - server_name = traindb
2015-02-25 10:12:48,512 - ssl_enabled = True
2015-02-25 10:12:48,512 - quantum = 15
2015-02-25 10:12:48,512 - csrf_enabled = False
2015-02-25 10:12:48,512 - ssh_full_path = ssh
2015-02-25 10:12:48,512 - diskThresholdValue = 80
2015-02-25 10:12:48,513 - allowAutoLogin = True
2015-02-25 10:12:48,513 - setting default GRANTS on tables
2015-02-25 10:12:48,513 - GRANT ALL ON TABLE database_history TO public
```

gpmonws.log

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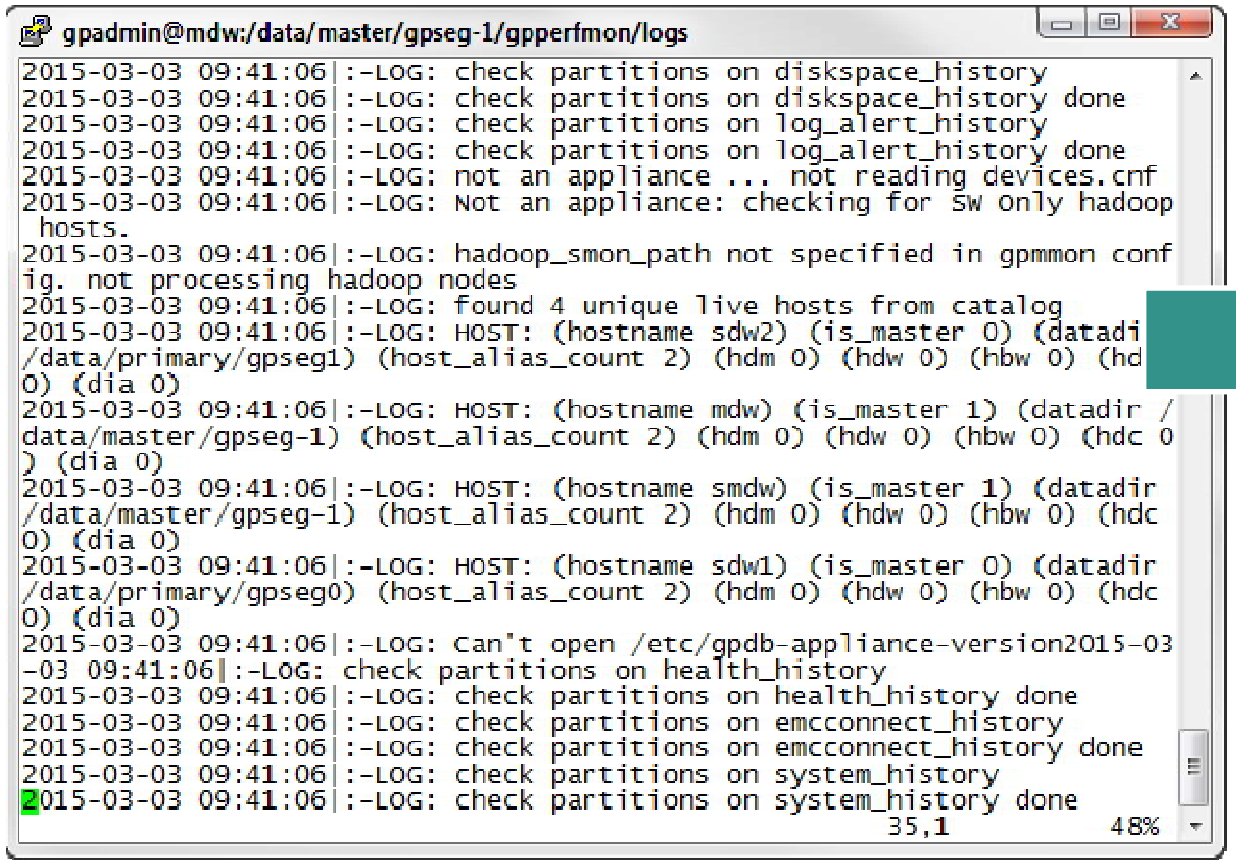
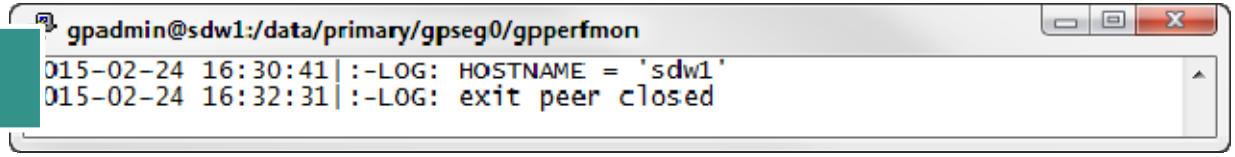
Accessing Agent Log Files



gpmmon.log

gpsmon.log



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Lab: Install and Configure Pivotal Greenplum Command Center

In this lab, you install Greenplum Command Center and validate that it was successfully installed.

You will:

- Enable the Greenplum Command Center agents
- Install the Greenplum Command Center Console
- Configure the Greenplum Command Center Console and enable access to the console for `gpadmin`

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Lab: Navigating Pivotal Greenplum Command Center

In this lab, you install Greenplum Command Center and validate that it was successfully installed.

You will:

- Navigate the Pivotal Greenplum Command Center dashboards
- Obtain information on the Greenplum environment using the tabs


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