

# Centreon Documentation

*Release 1.6.0*

**Centreon**

June 07, 2017







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### Presentation

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Centreon-Poller-Display is a module designed to provide a light version of Centreon locally on your pollers. This interface allows users to view the monitored resources of the poller from the poller itself.

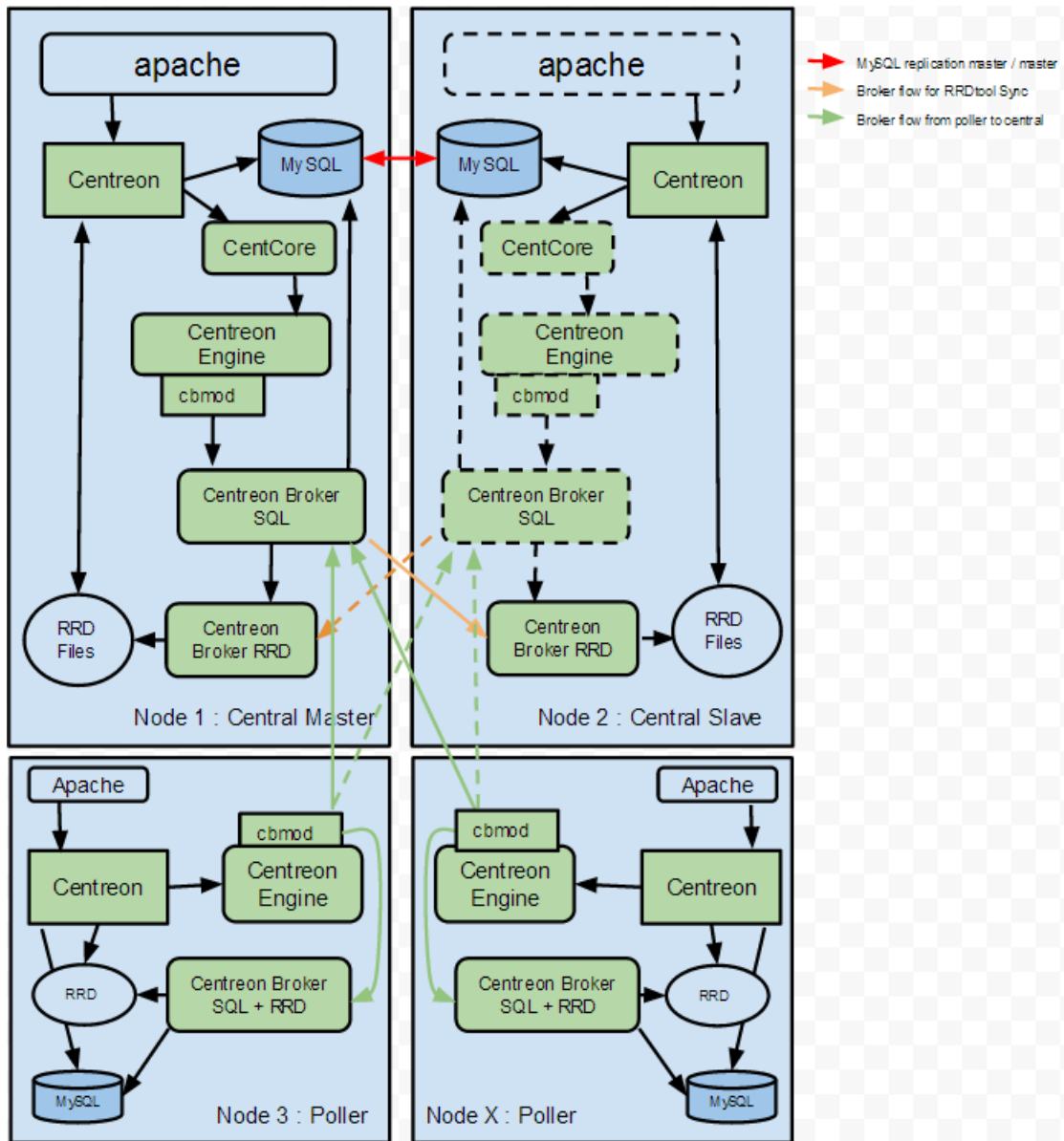
This is interesting for users who are near the Poller server and away from the Central or in case of a Central/network outage. It can be used as a backup solution. It also allows not to use WAN interconnections for example.

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**Note:** This interface is not compatible with poller which receives data from many pollers.

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Centreon Poller Display allows to build the following architecture:



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## Installation

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### 2.1 Installation on the central server

#### 2.1.1 From the repository

Refer to [Centreon Web's documentation](#) to properly install and configure your central server.

Once done, you will need to install the *centreon-poller-display-central* module.

```
yum install centreon-poller-display-central
```

#### 2.1.2 Web Installation

Next installation steps are made from **Centreon** Web interface.

Go to the modules management menu : Administration > Extensions

Administration > Extensions > Modules

Name	Real name	Information	Release	Author	Expiration date	Installed	Status	Actions
centreon-poller-display-central	centreon-poller-display-central	centreon-poller-display-central	1.6.0	Centreon	N/A	No	?	⚙️
centreon-bam-server	Centreon Business Activity Monitoring	Business Activity Monitoring	3.4.7	Centreon	01/05/2017	Yes	✓	🔧 ✖️

Click on the installation icon of the **centreon-poller-display-central** module.

On the next page, click on “Install Module”.

Module is now installed.

### 2.2 Installation on the poller

#### 2.2.1 From the repository

Centreon-poller-display is only compatible with pollers made with CES distribution.

To install, proceed with the Central Server with Database installation option of the CES installation (including Database, Apache, Broker... components) and configure it like a Poller. Next you will be able to install the module :

```
yum install centreon-base-config-centreon-engine centreon-poller-display
```

**Note:** It is possible to install the package on an already existing Poller.

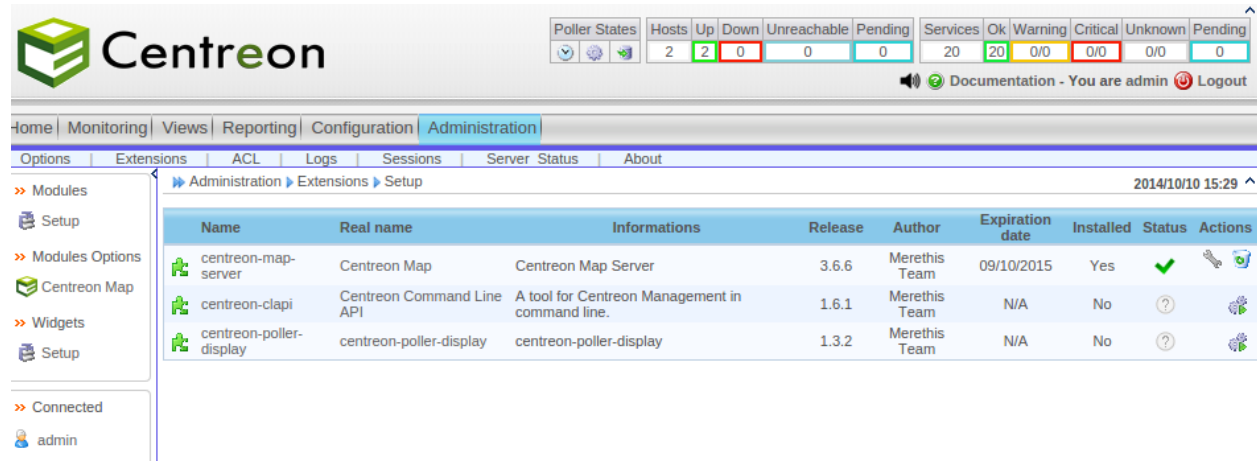
**Warning:** In case of installation on an existing poller it is necessary to reconfigure centreontrapd (installation process overrides the configuration).





## 2.2.2 Web Installation

**Note:** Before enable this module, you have to create your users account and set ACL definition. Indeed, if the module is enabled, the menus to configure this objects will no more available. However, you can disable the module to configure this objects and enable after.

Next installation steps are made from **Centreon** Web interface.

Go to the modules management menu : Administration > Extensions



Name	Real name	Informations	Release	Author	Expiration date	Installed	Status	Actions
centreon-map-server	Centreon Map	Centreon Map Server	3.6.6	Merethis Team	09/10/2015	Yes	✓	 
centreon-clapi	Centreon Command Line API	A tool for Centreon Management in command line.	1.6.1	Merethis Team	N/A	No	?	
centreon-poller-display	centreon-poller-display	centreon-poller-display	1.3.2	Merethis Team	N/A	No	?	

Click on the installation icon of the **centreon-poller-display** module.

On the next page, click on “Install Module”.

Module is now installed.

The Centreon interface menus should not be visible anymore.



## Configuration

**Note:** All configuration will occur on the central server.

### 3.1 Declare poller as poller-display-enabled

On the central server, you first need to declare the poller as poller-display-enabled. This can be done thanks to the **centreon-poller-display-central** module. Go to:

:: Configuration > Pollers > Poller display

Add your poller to the list of poller-display-enabled pollers and save the changes.

### 3.2 Centreon Broker configuration

Specific Centreon Broker streams configurations are required for the “Poller” server that will host Centreon Poller Display. These streams are configured from the Central server like monitored resources configuration. Only ACLs, contacts and general options can be configured at the Poller’s end.

It is necessary to setup three Centreon-Broker streams:

- A “classic” configuration for the streams between Centreon-Broker module on the Poller server and Centreon-Broker daemon (cbd) on the Central server
- A configuration for the stream between Centreon-Broker module on the Poller server and Centreon-Broker daemon (cbd) on the Poller server

- A configuration for the stream between Centreon-Broker module on the Poller server and Centreon-Broker daemon (cbd) on the Central server for RRDs files generation

### 3.2.1 “Poller” Configuration

In the first step you need a classic configuration for your Poller server which can be handled by the wizard. In the menu :

Configuration > Centreon > Centreon-Broker > Configuration > Add with wizard

- Select *Simple Poller* option.
- Click Next.
- Give a name to your configuration file (We will use “Poller” in our example).
- Select the desired Requester.
- Select communication protocol (NDO or BBDO). Protocol must be the same as the one used on the Central.
- Specify the Central server IP address.

You may not have to proceed with this step if your Poller server is already linked to the Central server.

However you need to configure the stream between Centreon-Broker module on the Poller server and the Centreon-Broker daemon (cbd) on the Poller server.

For that, in the Poller configuration, you need to add an **IPv4 Output** type :

The screenshot shows a configuration form for 'Output 1 - IPv4'. The form has a light blue header and a white body. It contains several input fields and radio buttons. The 'Name' field is filled with 'Poller-Display'. The 'Connection port' field is filled with '5672'. The 'Host to connect to' field is filled with 'localhost'. The 'Failover name' field is empty. The 'Retry interval' and 'Buffering timeout' fields are empty. The 'Serialization protocol' dropdown is set to 'BBDO Protocol'. The 'Enable TLS encryption' radio buttons are set to 'No'. The 'Private key file', 'Public certificate', and 'Trusted CA's certificate' fields are empty. The 'Enable negotiation' radio buttons are set to 'Yes'. The 'One peer retention' radio buttons are set to 'No'. The 'Filter category' section has a table with 'Available' and 'Selected' columns. The 'Available' column contains 'Correlation', 'Dumper', 'Neb', and 'Storage'. The 'Selected' column is empty. There are 'Add' and 'Remove' buttons between the columns. The 'Compression (zlib)' radio buttons are set to 'No'. The 'Compression level' and 'Compression buffer size' fields are empty.

### 3.2.2 “Poller-Display-Broker” Configuration

The second step is to configure the stream between Centreon-Broker module on the Poller server and Centreon-Broker daemon (cbd) on the Poller server. A Centreon-Broker daemon (cbd) is required on the poller to generate datas in centreon\_storage database for the Centreon light GUI to work. For that, go to:

Configuration > Centreon > Centreon-Broker > Configuration > Add

And follow the following steps.

#### Step 1 : General tab

General Correlation Input **Logger** Output Stats Temporary

**Modify a Centreon-Broker Configuration**

Centreon Broker information

Name \* Poller-Display-Broker

Config file name \* central-broker.xml

Write timestamp  Yes  No

Write thread id  Yes  No

Status  Enabled  Disabled

Requester Poller-1 ▼

Event queue max size 50000

Configure your Broker file.

**Note:** You must name the configuration of the SQL Broker daemon file on the Poller with the same name of the Central for the init file to work out without any major changes. The name must be Central-Broker.xml even if server is a Poller.

## Step 2 : Input tab

General Correlation **Input** Logger Output Stats Temporary

**Modify a Centreon-Broker Configuration**

Centreon-Broker Input

TCP - IPv4 ▼ + Add

Input 1 - IPv4

Name \* Poller-Display

Connection port \* 5672

Host to connect to

Failover name

Retry interval

Buffering timeout

Serialization protocol BBDO Protocol ▼

Enable TLS encryption  Auto  No  Yes

Private key file.

Public certificate

Trusted CA's certificate

Enable negotiation  No  Yes

One peer retention  No  Yes

Filter category

Available	Selected
Correlation	
Dumper	
Neb	
Storage	

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add an *IPV4* output type

## Step 3 : Logger tab

General Correlation Input **Logger** Output Stats Temporary

**Modify a Centreon-Broker Configuration**

Centreon-Broker Logger

Core - File ▼ + Add

Logger 1 - File

Name of the logger \* /var/log/centreon-broker/poller-broker.log

Configuration messages  No  Yes

Debug messages  No  Yes

Error messages  No  Yes

Informational messages  No  Yes

Logging level Base ▼

Max file size in bytes

Add a *Logger of File* type

## Step 4 : Output tab

Now we add several *output*.

### Step 4a : 'Real time' database connection

The screenshot shows the 'Modify a Centreon-Broker Configuration' window with the 'Output' tab selected. The configuration is for 'Output 1 - Broker SQL database' with the following settings:

- Name: central-broker-sql-master
- DB type: MySQL
- Fallover name: central-broker-sql-master-fallover
- Retry interval: (empty)
- Buffering timeout: (empty)
- DB host: localhost
- DB port: 3306
- DB user: centreon
- DB password: (masked with asterisks)
- DB name: centreon\_storage
- Maximum queries per transaction: (empty)
- Transaction commit timeout: (empty)
- Replication enabled:  No  Yes
- Filter category: Correlation, Dumper, Storage
- Cleanup check interval: (empty)
- Instance timeout: (empty)

Add a *Broker SQL database* output type

**Note:** Warning, Centreon database access is made on the poller. Use the centreon MySQL user credentials of the poller.

### Step 4b : data\_bin data storage

Add a *Perfdata Generator (Centreon Storage)* output type

The screenshot shows the 'Modify a Centreon-Broker Configuration' window with the 'Output' tab selected. The configuration is for 'Output 2 - Perfdata Generator (Centreon Storage)' with the following settings:

- Name: central-broker-perfdata-master
- Interval length: 60
- Retry interval: (empty)
- Buffering timeout: (empty)
- Fallover name: central-broker-perfdata-master-fallover
- RRD length: 15552000
- DB type: MySQL
- DB host: localhost
- DB port: 3306
- DB user: centreon
- DB password: (masked with asterisks)
- DB name: centreon\_storage
- Maximum queries per transaction: (empty)
- Transaction commit timeout: (empty)
- Replication enabled:  No  Yes
- Rebuild check interval in seconds: (empty)
- Store in performance data in data\_bin:  No  Yes
- Insert in index data: 1
- Filter category: Correlation, Dumper, Storage

**Note:** The option **Store in performance data in data\_bin** and **Insert in index data** must be set to **Yes** otherwise graphs won't be generated.

Add an *IPV4* output type

**Note:** Warning, Centreon database access is made on the poller. Use the centreon MySQL user credentials of the poller.

### Step 4c : Network stream to the local RRD Broker

**Output 3 - IPv4**

? Name \* central-broker-rd-master

? Connection port \* 5670

? Host to connect to localhost

? Failover name central-broker-rd-master-failover

? Retry interval

? Buffering timeout

? Serialization protocol BBDO Protocol ▼

? Enable TLS encryption  Auto  No  Yes

? Private key file

? Public certificate

? Trusted CA's certificate

? Enable negotiation  No  Yes

? One peer retention  No  Yes

? Filter category

Available Selected

Correlation Dumper Neb

Storage

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add an *IPv4* output type

### Step 4d : Network stream to the local MySQL Broker

**Output 4 - File**

? Name \* central-broker-sql-master-failover

? File path \* /var/lib/centreon-broker/central-broker-sql-master.retention

? Failover name

? Serialization protocol BBDO Protocol ▼

? Retry interval

? Buffering timeout

? Maximum size of file 500000000

? Filter category

Available Selected

Correlation Dumper Storage Neb

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add an *IPv4* output type

### Step 4e : RRD Failover

**Output 5 - File**

? Name \* central-broker-rd-master-failover

? File path \* /var/lib/centreon-broker/central-broker-rd-master.retention

? Failover name

? Serialization protocol BBDO Protocol ▼

? Retry interval

? Buffering timeout

? Maximum size of file 500000000

? Filter category

Available Selected

Correlation Dumper Neb Storage

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add a *File* output type

### Step 4f : SQL Failover

**Output 6 - File**

? Name \* central-broker-perfdata-master-failover

? File path \* /var/lib/centreon-broker/central-broker-perfdata-master.retention

? Failover name

? Serialization protocol BBDO Protocol ▼

? Retry interval

? Buffering timeout

? Maximum size of file 500000000

? Filter category

Available Selected

Correlation Dumper Storage Neb

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add a *File* output type

You can now validate form. Configuration is now Ok for this object.

### 3.2.3 “Poller-Display-RRD” configuration

This step aims to configure the dedicated stream for RRD’s file generation on the Poller. For this go to :

Configuration > Centreon > Centreon-Broker > Configuration > Add

and follow this steps.

#### Step 1 : General tab

The screenshot shows the 'Add a Centreon-Broker Configuration' form with the 'General' tab selected. The form contains the following fields and options:

Name *	Poller-Display-RRD
Config file name *	central-rrd.xml
Write timestamp	<input checked="" type="radio"/> Yes <input type="radio"/> No
Write thread id	<input type="radio"/> Yes <input checked="" type="radio"/> No
Status	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Requester	Poller-1 ▼
Event queue max size	50000

Configure your Broker file

**Note:** You must name the configuration of the RRD Broker daemon file on the Poller with the same name of the Central for the init file to work out without any major changes. The name must be Central-rrd.xml even if server is a Poller.

#### Step 2 : Input tab

The screenshot shows the 'Modify a Centreon-Broker Configuration' form with the 'Input' tab selected. The form contains the following fields and options:

TCP - IPv4 + Add	
Input 1 - IPv4	
Name *	poller-rrd-master
Connection port *	5670
Host to connect to	
Failover name	
Retry interval	
Buffering timeout	
Serialization protocol	BBDO Protocol ▼
Enable TLS encryption	<input type="radio"/> Auto <input checked="" type="radio"/> No <input type="radio"/> Yes
Private key file.	
Public certificate	
Trusted CA's certificate	
Enable negotiation	<input type="radio"/> No <input checked="" type="radio"/> Yes
One peer retention	<input checked="" type="radio"/> No <input type="radio"/> Yes
Filter category	Available: Correlation, Dumper, Neb. Selected: Storage. Buttons: Add, Remove.
Compression (zlib)	<input type="radio"/> Auto <input checked="" type="radio"/> No <input type="radio"/> Yes
Compression level	
Compression buffer size	

Add an *IPV4* output type

### Step 3 : Logger tab

General Correlation Input **Logger** Output Stats Temporary

Modify a Centreon-Broker Configuration

Centreon-Broker Logger

Core - File + Add

Logger 1 - File

Name of the logger \* /var/log/centreon-broker/poller-rd.log

Configuration messages  No  Yes

Debug messages  No  Yes

Error messages  No  Yes

Informational messages  No  Yes

Logging level Base

Max file size in bytes

Add a *Logger of File* type

### Step 4 : Output tab

General Correlation Input **Logger** **Output** Stats Temporary

Modify a Centreon-Broker Configuration

Centreon-Broker Output

RRD - RRD file generator + Add

Output 1 - RRD file generator

Name \* central-rd-output-master

RRD file directory for metrics /var/lib/centreon/metrics/

RRD file directory for statuses /var/lib/centreon/status/

Failover name central-rd-output-master-failover

Retry interval

Buffering timeout

TCP port

Unix socket

Write metrics  No  Yes

Store in performance data in data\_bin  No  Yes

Write status  No  Yes

Insert in index data 1

Filter category

Correlation Dumper Neb Available Add Storage Selected Remove

Add an *IPV4* output type

### Step 5 : Add a Failover

Output 2 - File

Name \* central-rd-output-master-failover

File path \* /var/log/centreon-broker/central-rd-master.retention

Failover name

Serialization protocol BBDO Protocol

Retry interval

Buffering timeout

Maximum size of file 500000000

Filter category

Correlation Dumper Neb Available Add Storage Selected Remove

Compression (zlib)  Auto  No  Yes

Compression level

Compression buffer size

Add a *File* output type

You can now validate form. Configuration is done for this object.

**Warning:** On the Central web interface in the menu : **Administration > Options > Centstorage > Options**, the option **Enable resources's insertion in index\_data by Centreon** must be checked.

You can now proceed to the next step to apply changes.



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### Utilisation

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Now you must apply new configuration to the Poller from the Central. For this please proceed with this steps in the following order :

- Generate new configuration for the Poller
- Test new configuration
- Export new configuration
- Connect on the Poller and start the Broker (`/etc/init.d/cbd start`)
- Start centreon-engine on the Poller.

Monitoring states, performance graphs and Dashboard are now available on the Poller in addition to the Central.

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**Note:** If you don't use at least Centreon Engine 1.4, consider putting at least one host or Centreon Engine won't start.

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You can make use of ACL's on the poller. Consider configuring auto import of users with LDAP authentication.