



# How to monitor the use and performance of BI Server using the plug-ins: **Pentaho** **CE Audit** and **Pentaho** **Performance**

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# Who am I?

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- Brazilian and Spanish, married, father of two girls;
- Works with Pentaho since 2007 at IT4biz;
- Founder of IT4biz Global;
- Lives in Madrid, Spain;
- Participant of PCM 2009, 2013 (speaker) and 2015 (speaker).
- Twitter: @caiomsouza | Github: <http://github.com/caiomsouza/>



# Current Scenario - Pentaho BI Server traditional

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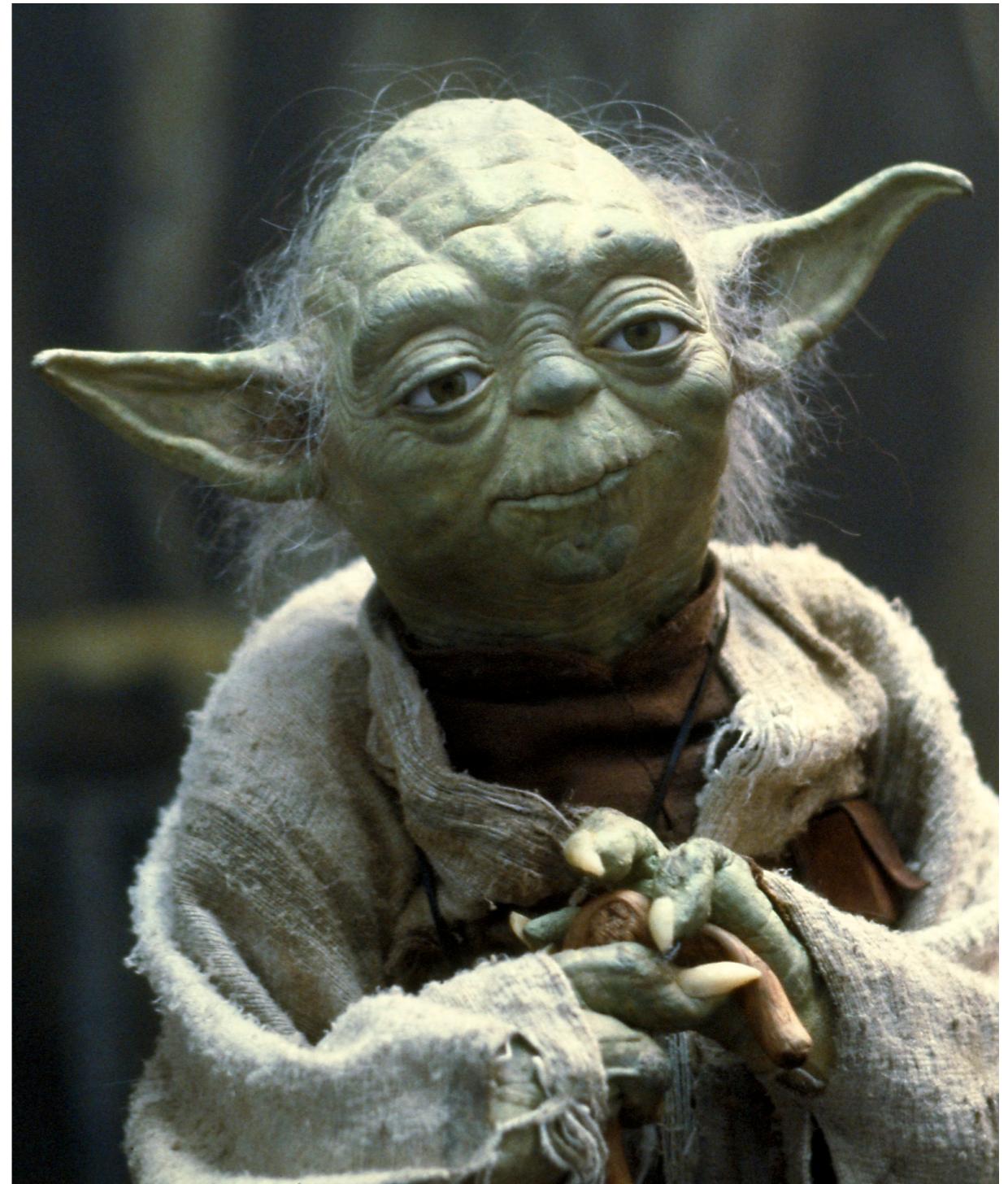
- Hard time trying to know who logged, when logged and what this person accessed, when accessed;
- Hard time trying to know which MDX and SQL queries are frequently performed, which are the fastest and the slowest.



# Become the Master Yoda of your Pentaho

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- Very often we are disoriented about our BI Server and we do not have the necessary information to take decisions relating to our customer's BI Server administration.
- Using **Pentaho CE Audit** and **Pentaho Performance Monitoring** you become the Master Yoda of your Pentaho.



# Master Yoda Scenario - Pentaho BI Server

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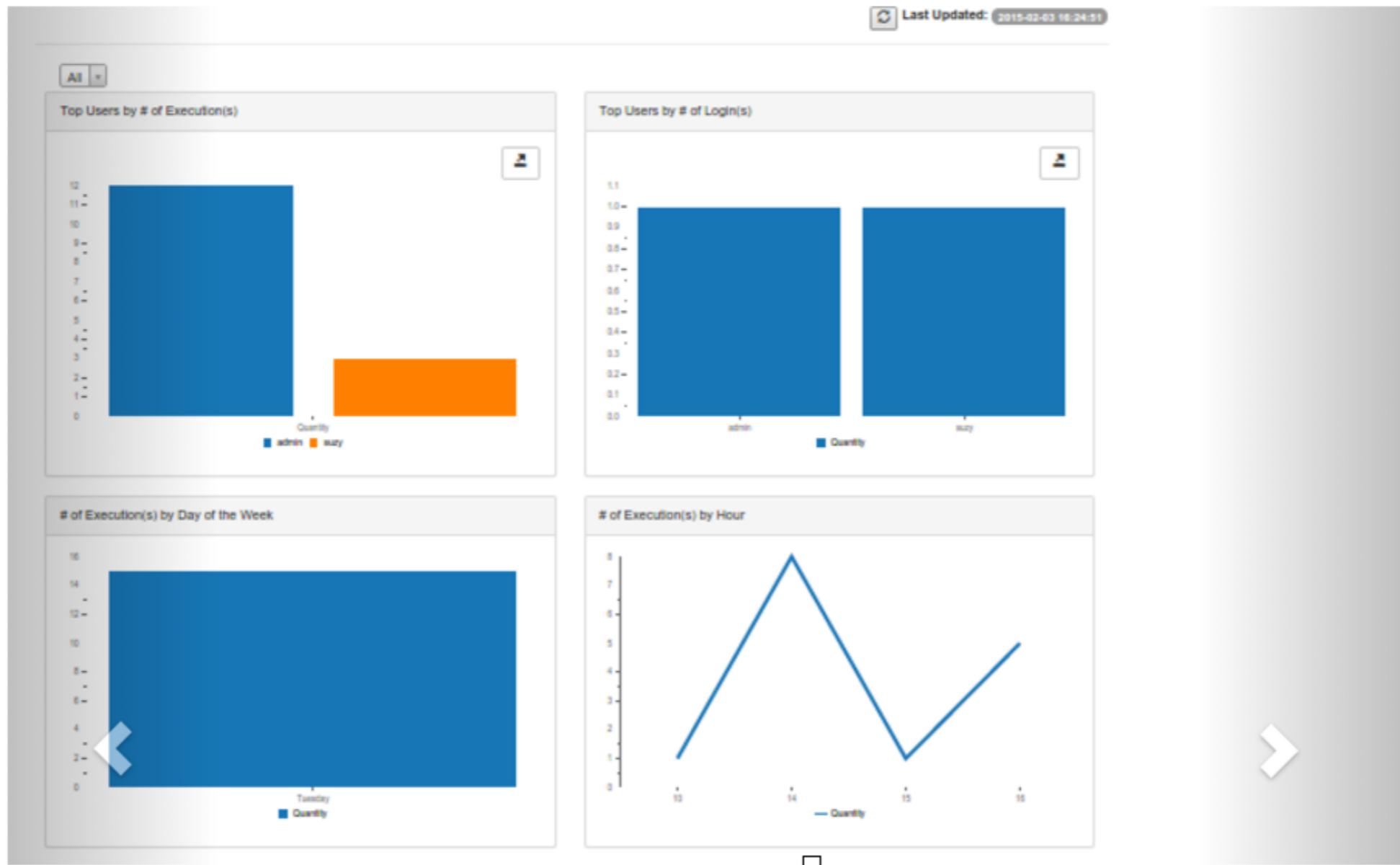
- **Pentaho CE Audit:**
  - Total control over who logged, when logged, what has been accessed, when has been accessed;
- **Pentaho Performance Monitoring:**
  - Total control over which MDX and SQL queries are frequently performed, which are the fastest and/or slowest.

# Pentaho CE Audit

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- Identify who uses your Pentaho and what has been accessed;
- There are more than 100 countries using this plugin;
- Github: <https://github.com/it4biz/pentaho-ce-audit>

# Pentaho CE Audit Plugin



# Pentaho Performance Monitoring

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- Monitor the query MDX and SQL performance of your BI Server;
- There are more than 100 countries using this plugin;
- Github: <https://github.com/it4biz/pentaho-performance-monitoring>

# Pentaho Performance Monitoring Plugin

File View Tools Help  
Opened admin

Performance Monitoring

Last Queries Updated: 2015-05-25 18:03:48

Performance Overview 2015-05-18 > 2015-05-25

SQL

Top 10 Slow Queries

Top 10 Fast Queries

Queries	Quantity Executions	Time execution in ms (Average)
[select count(distinct "YEAR_ID") from "DIM_TIME"]	2	1
[select "CUSTOMER_W_TER"."TERRITORY" as "c0", "CUSTOMER_W_TER"."COUNTRY" as "c1", "PRODUCTS"."PRODUCTNAME" as "c2", "DIM_TIME"."YEAR_ID" as "c3", sum("ORDERFACT"."QUANTITYORDERED") as "m0", sum("ORDERFACT"."TOTALPRICE") as "m1" from "CUSTOMER_W_TER" as "CUSTOMER_W_TER", "ORDERFACT" as "ORDERFACT", "PRODUCTS" as "PRODUCTS", "DIM_TIME" as "DIM_TIME" where "ORDERFACT"."CUSTOMERNUMBER" = "CUSTOMER_W_TER"."CUSTOMERNUMBER" and "ORDERFACT"."PRODUCTCODE" = "PRODUCTS"."PRODUCTCODE" and "ORDERFACT"."TIME_ID" = "DIM_TIME"."TIME_ID" and "DIM_TIME"."YEAR_ID" = 2003 group by "CUSTOMER_W_TER"."TERRITORY", "CUSTOMER_W_TER"."COUNTRY", "PRODUCTS"."PRODUCTNAME", "DIM_TIME"."YEAR_ID"]	1	75
[select "CUSTOMER_W_TER"."TERRITORY" as "c0", "CUSTOMER_W_TER"."COUNTRY" as "c1", "PRODUCTS"."PRODUCTLINE" as "c2", "PRODUCTS"."PRODUCTVENDOR" as "c3", "DIM_TIME"."YEAR_ID" as "c4", sum("ORDERFACT"."QUANTITYORDERED") as "m0", sum("ORDERFACT"."TOTALPRICE") as "m1" from "CUSTOMER_W_TER" as "CUSTOMER_W_TER", "ORDERFACT" as "ORDERFACT", "PRODUCTS" as "PRODUCTS", "DIM_TIME" as "DIM_TIME" where "CUSTOMER_W_TER"."COUNTRY" = "PRODUCTS"."COUNTRY" and "CUSTOMER_W_TER"."TERRITORY" = "PRODUCTS"."PRODUCTLINE" and "CUSTOMER_W_TER"."YEAR_ID" = "DIM_TIME"."YEAR_ID" and "PRODUCTS"."PRODUCTVENDOR" = "ORDERFACT"."PRODUCTVENDOR" group by "CUSTOMER_W_TER"."TERRITORY", "CUSTOMER_W_TER"."COUNTRY", "PRODUCTS"."PRODUCTLINE", "DIM_TIME"."YEAR_ID"]	1	63



# Other products we developed

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- pdiR - Docker to install PDI + R;
- SparklPDIR - Plug-in to integrate Sparkl with PDIR;
- Hello World - Plug-in to exemplify a plugin at Sparkl;
- Saiku Chart Plus - An easy way to create Maps and Highcharts graphics in Saiku;
- Kettle Web Integrator - An easy way to integrate Kettle with your web application;
- IT4bizAddOns - An easy way to change your BI Server layout.
- All these products can be found at: [github.com/it4biz](https://github.com/it4biz)

# Hands On

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- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>



The image shows the IT4biz BI Services login interface. At the top left is the IT4biz logo. To its right is a grid of 24 blue square icons representing various business concepts like 'increase', 'growth', 'rise', 'success', and 'business'. The main title 'IT4biz BI Services' is centered above a subtitle 'O seu gestor de BI sob demanda'. Below the subtitle are two input fields: 'Usuário' (User) and 'Senha' (Password), both with placeholder text. To the right of these fields is a blue 'Login' button. At the bottom right of the page is the copyright notice 'Copyright © IT4biz - Information Technology For Business.'

Copyright © IT4biz - Information Technology For Business.

Powered by IT4biz

# Hands On

- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>

The screenshot shows a web browser window with the URL <http://it4biz-cenipa.cloudapp.net/pentaho/Home> in the address bar. The page title is "IT4biz AddOns". The top navigation bar includes links for "Personalizar BI-server", "Saiku Chart Plus", "Pentaho CE Audit", and "Pentaho Performance Monitoring". Below this, there is a section titled "Logos e imagens (mova para este diretório as logos e imagens específicas do projeto)". A table lists three files: "login-crystal-bg.jpeg" (Descrição: Imagem de fundo da tela de login (1255X663)), "puc-login-logo.png" (Descrição: Logo da tela de login (360x93)), and "favicon.ico" (Descrição: Favicon (48X48)). There are also fields for "Titulo principal" (containing "IT4biz BI Services") and "Titulo secundário" (containing "O seu gestor de BI sob demanda"). A "Atualizar" button is located at the bottom right.

Arquivo	Descrição
it4biz-add-ons/features/personalize-biserver/login-crystal-bg.jpeg	Imagen de fondo da tela de login (1255X663)
it4biz-add-ons/features/personalize-biserver/puc-login-logo.png	Logo da tela de login (360x93)
it4biz-add-ons/features/personalize-biserver/favicon.ico	Favicon (48X48)

# Hands On

- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>

The screenshot shows the Pentaho BI Server interface with the 'Saiku Chart Plus' plugin installed. The top navigation bar includes links for 'Personalizar BI-server', 'Saiku Chart Plus' (which is currently selected), 'Pentaho CE Audit', and 'Pentaho Performance Monitoring'. The main workspace displays a world map where countries are colored based on their 'Quantity' of sales. A tooltip for Brazil indicates a quantity of 1504. The left sidebar contains tabs for 'Opened', 'Saiku Analytics', 'Cubos', 'Dimensões', and 'Medidas'. The right sidebar provides information about the 'Saiku Chart Plus' plugin, stating it is an open-source project that helps users create various maps and charts using Saiku, Highcharts, and Google Maps. It includes a link to the website and an 'Instalar' button.

it4biz-cenipa.cloudapp.net/pentaho/Home

File View Tools Help

Opened admin

IT4biz addOns

Home

## IT4biz AddOns plugin

Personalizar BI-server Saiku Chart Plus Pentaho CE Audit Pentaho Performance Monitoring

Arquivo Visualizar Ferramentas Ajuda

Opened

Saiku Analytics

Cubos  
SteelWheelsSales

Dimensões  
Customers Markets (All Territory Country State Province Order Status Product Time)

Medidas  
Medidas Quantidade

Quantidade: 1504

Colunas: Quantidade

Linhas: Country

Filtros:

Bar | Line | Pie | Geo Chart | Geo Map

### Saiku Chart Plus

é um projeto open-source que ajuda usuários de BI Pentaho a criar diferentes tipos de mapas e gráficos baseado nos projetos Saiku, Highcharts e Google Maps.

Para saber mais acesse [nossa site](#).

Instalar

# Hands On

- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>

File View Tools Help

Opened + +

IT4biz addOns x

Home

## IT4biz AddOns plugin

Personalizar BI-server Saiku Chart Plus Pentaho CE Audit Pentaho Performance Monitoring

Last Updated: 2015-02-03 16:24:51

All

Top Users by # of Execution(s)

User	Quantity
admin	11
it4biz	1

Top Users by # of Login(s)

User	Quantity
admin	11
it4biz	1

# of Execution(s) by Day of the Week

Day	Quantity
Tuesday	14

# of Execution(s) by Hour

Hour	Quantity
10	1
11	8
12	1
13	4

### Pentaho CE Audit

é um projeto open-source que ajuda usuários de BI Pentaho a visualizar estatísticas como:

- Quem está acessando o portal de BI (Pentaho BI Server)?
- Quando os usuários mais utilizam o portal?
- Qual é o conteúdo mais acessado?
- E várias outras informações disponíveis para consumo através de um cubo OLAP.

Para saber mais acesse [nossa site](#).

Instalar

# Hands On

- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>

The screenshot shows the Pentaho BI Server interface with the IT4biz AddOns plugin installed. A modal window titled "Mensagem do sistema" displays the message: "Pentaho CE Audit instalado com sucesso! Reinicie o serviço Pentaho." Below the modal, there is a table titled "February" showing audit data. The table has columns for Type, User, File, and Quantity. The data includes entries for execution (admin, suzy), login (admin, suzy), and various file paths. To the right of the table, there is a section titled "Pentaho CE Audit" with a description and a bulleted list of features. At the bottom right, there is an "Instalar" button.

Type	User	File	Quantity
execution	admin	/system/pentaho-ce-audit/dashboards/admin/dashboard.wcdf /system/pentaho-performance-monitoring/dashboards/home.wcdf /system/sparkl/dashboards/admin/Main.wcdf /system/sparkl/dashboards/admin/pluginInfo.wcdf	1 3 1 2
	suzy	/public/Steel Wheels/Reports/Buyer Report (sparkline report).prpt /public/Steel Wheels/Reports/Invoice (report).prpt /public/Steel Wheels/Reports/Top Customers (report).prpt	1 1 1
login	admin	Not specified	1
	suzy	Not specified	1

**Pentaho CE Audit**

é um projeto open-source que ajuda usuários de BI Pentaho a visualizar estatísticas como:

- Quem está acessando o portal de BI (Pentaho BI Server)?
- Quando os usuários mais utilizam o portal?
- Qual é o conteúdo mais acessado?
- E várias outras informações disponíveis para consumo através de um cubo OLAP.

Para saber mais acesse [nossa site](#).

**Instalar**

# Hands On

- Now, let's play at <http://it4biz-cenipa.cloudapp.net/>

The screenshot shows the IT4biz AddOns plugin interface for Pentaho. At the top, there are tabs for "Personalizar BI-server", "Saiku Chart Plus", "Pentaho CE Audit", and "Pentaho Performance Monitoring". The "Pentaho Performance Monitoring" tab is selected.

The main area displays two bar charts: "Top 10 Slow Queries" and "Top 10 Fast Queries", both showing execution time in milliseconds (ms) on the Y-axis and query ID on the X-axis. Below the charts is a table of query logs:

Queries	Quantity Executions	Time execution in ms (Average)
with set [~ROWS] as '[[Query].[Query].Members' select NON EMPTY [[Measures].[Quantity]] ON COLUMNS, NON EMPTY [~ROWS] ON ROWS from [SQL Queries]	2	4
with set [~ROWS] as '[[Order Status].[Type].Members' select NON EMPTY [[Measures].[Quantity]] ON COLUMNS, NON EMPTY [~ROWS] ON ROWS from [SteelWheelsSales]	1	28
with set [~ROWS] as '[[Query].[Type].Members' select NON EMPTY [[Measures].[Quantity], [Measures].[Quantity of Executions]] ON COLUMNS, NON EMPTY [~ROWS] ON ROWS from [MDX and SQL Queries]	1	11
with set [~ROWS] as '[[Query].[Query].Members' select NON EMPTY [[Measures].[Quantity]] ON COLUMNS, NON EMPTY [~ROWS] ON ROWS from [MDX Queries]	1	18

At the bottom, there are sections for "Last Queries" and tabs for "Queries SQL" and "Queries MDX".

**Pentaho Performance Monitoring**

é um projeto open-source que ajuda usuários de BI Pentaho a visualizar estatísticas de performance como:

- Consultas SQL e MDX mais realizadas?
- Quais são os usuários que mais utilizam o portal de BI?
- Quais consultas demoram mais para serem realizadas?
- E várias outras informações disponíveis para consumo através de um cubo OLAP.

Para saber mais acesse [nossa site](#).

[Instalar](#)



# Fork EDW\_CENIPA at Github

GitHub, Inc. (US) [https://github.com/it4biz/edw\\_cenipa](https://github.com/it4biz/edw_cenipa)

This repository Search Pull requests Issues Gist

Unwatch 1 Star 0 Fork 4

it4biz / **edw\_cenipa** forked from wmarinho/edw\_cenipa

Modelo BI open source para construção de um data warehouse com dados abertos do CENIPA — Edit

69 commits 1 branch 0 releases 2 contributors

Branch: master / +

This branch is 4 commits ahead, 4 commits behind wmarinho:master.

caiomsouza Merge branch 'master' of https://github.com/it4biz/edw\_cenipa Latest commit bd87479 3 hours ago

aws . 27 days ago

biserver Add IT4biz Addos 3 hours ago

demo Ajuste script de inicialização 8 days ago

docs docs 8 days ago

pdi Merge branch 'master' of https://github.com/wmarinho/edw\_cenipa 8 days ago

README.md Update README.md 7 hours ago

clean.sh Versão Inicial 27 days ago

docker-compose.yml Changed Docker-Compose 8 hours ago

easy\_install Versão Inicial 27 days ago

install.sh Versão Inicial 27 days ago

README.md

Code Pull requests Wiki Pulse Graphs Settings

HTTPS clone URL [https://github.com/it4biz/edw\\_cenipa](https://github.com/it4biz/edw_cenipa)

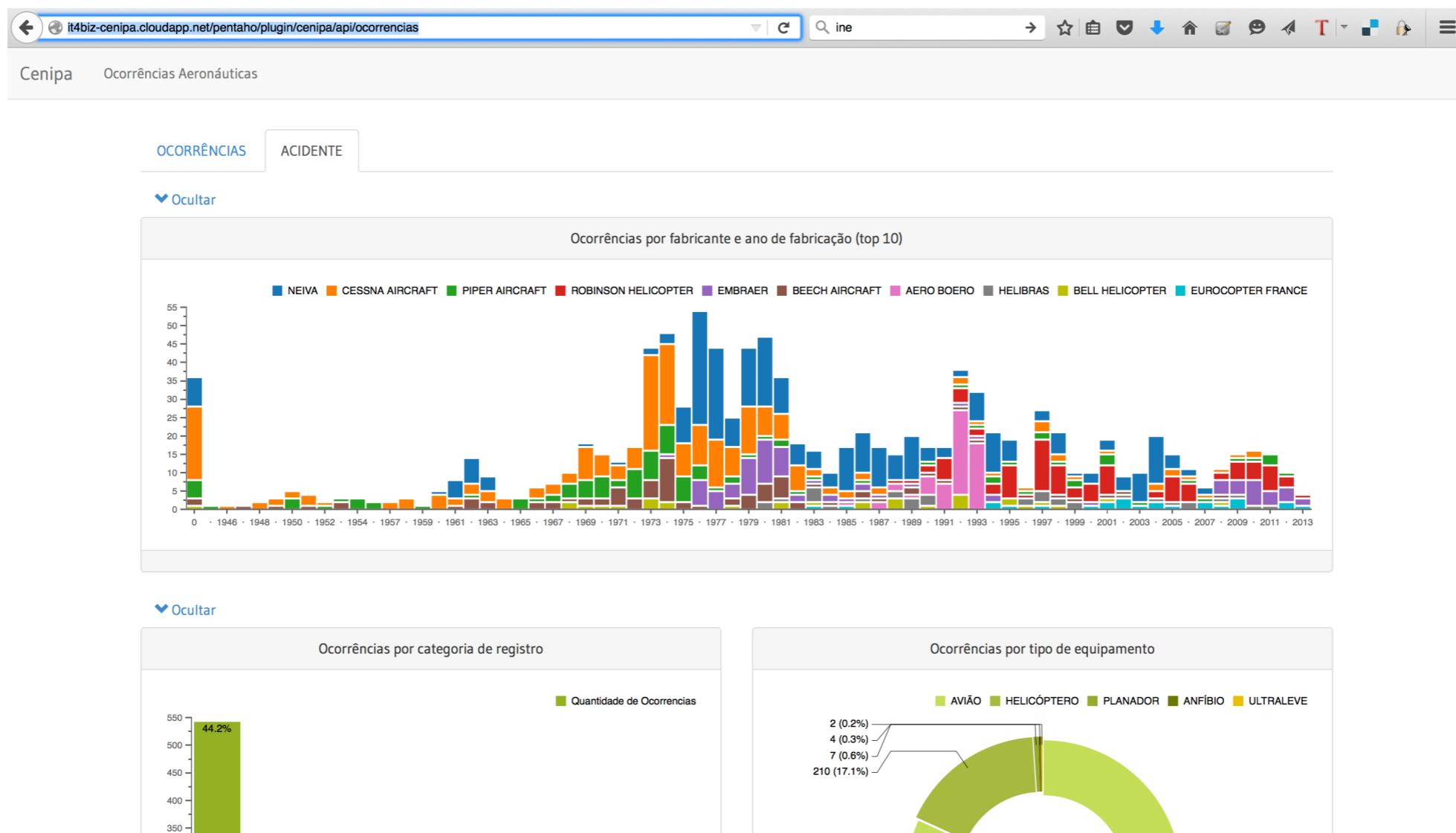
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop Download ZIP

The  
**EDW\_CENIPA**  
Project was  
created by  
Wellington  
Marinho from  
the Pentaho  
Brazilian  
Community  
using Docker  
and Open Data.

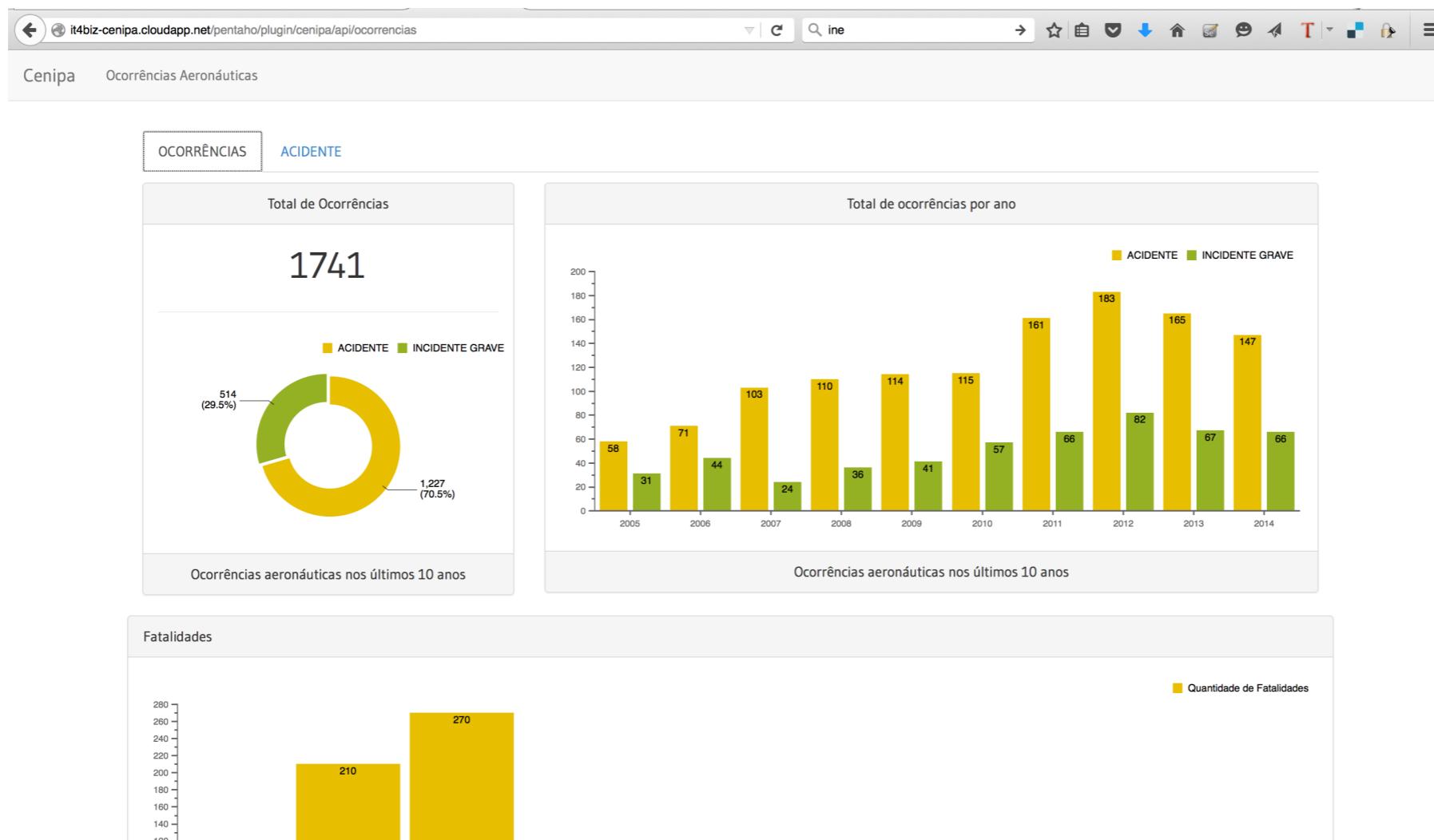
# Try yourself at home the EDW\_CENIPA Project

- Use the free EDW\_CENIPA project to run a real BI Project using Open Data from Brazil.



# Try yourself at home the EDW\_CENIPA Project

- Use the EDW\_CENIPA project to run a real BI Project using Open Data from Brazil.



# Thank you / Gracias / Obrigado

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Questions?