

# Capgemini Big Data Analytics Sandbox for Financial Services



Put your data to use quickly without spending a fortune

In the last few years, the world has seen an exponential growth in data volumes. Just two years ago, big data was seen as a problem for companies like Google and Facebook that had extremely high usage. Today, every financial services and insurance company realizes the importance of big data. Companies must be able to extract valuable intelligence from data quickly and efficiently—or risk being left behind by their competitors.

While all financial institutions have data that can be analyzed and explored to extract business value, many companies face challenges in putting their data to work. It is time consuming and costly to set up and manage an analytics platform. Most companies do not have an army of data scientists and programmers to implement and try a solution. In addition, even if a company has the right expertise, it takes time to procure and set up the required hardware. While public clouds provide on-demand infrastructure, financial institutions are reluctant to use the cloud due to compliance and security concerns—especially due to the proprietary nature of the information and the threat of identity theft.

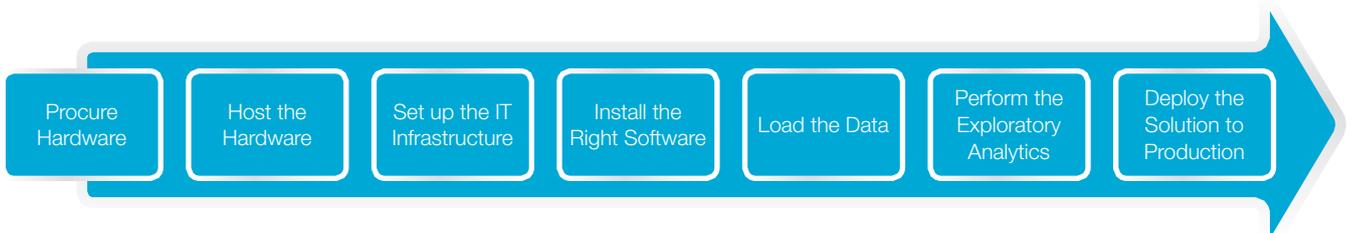
# A Fast and Secure Place to Test Analytics Ideas

Capgemini's Big Data Analytics Sandbox lets financial institutions try ideas and deploy to production in a very short time frame. Our data scientists and experienced engineers can help your firm trim months off the time for product development. Using our pre-configured environment will help you reduce the upfront cost. Our solution provides:

- **Fast Time to Market.** The sandbox is preconfigured with all of the hardware and software required to start big data analysis right away.
- **Minimal Upfront Cost.** You don't need to procure any hardware or acquire the technical expertise to set up and maintain the environment.
- **Guaranteed Data Privacy and Protection.** We provide hardware that is dedicated to a single client. No one else can see or access the information. The environment is segregated by a private VLAN, unique to each Capgemini client.
- **Targeted Investments.** Capgemini's Big Data Analytic Sandbox is used for exploratory analysis with no strings attached. At the end of the proof of concept, your firm can deploy it to production, or decide the value isn't worth the investment.

Our Big Data Analytics Sandbox reduces start up time by **up to 90%** and provides a low-risk approach, minimizing both up-front investment and total cost of ownership while offering maximum flexibility and rapid time-to-value.

## Typical Steps to Explore and Deploy a Big Data Solution

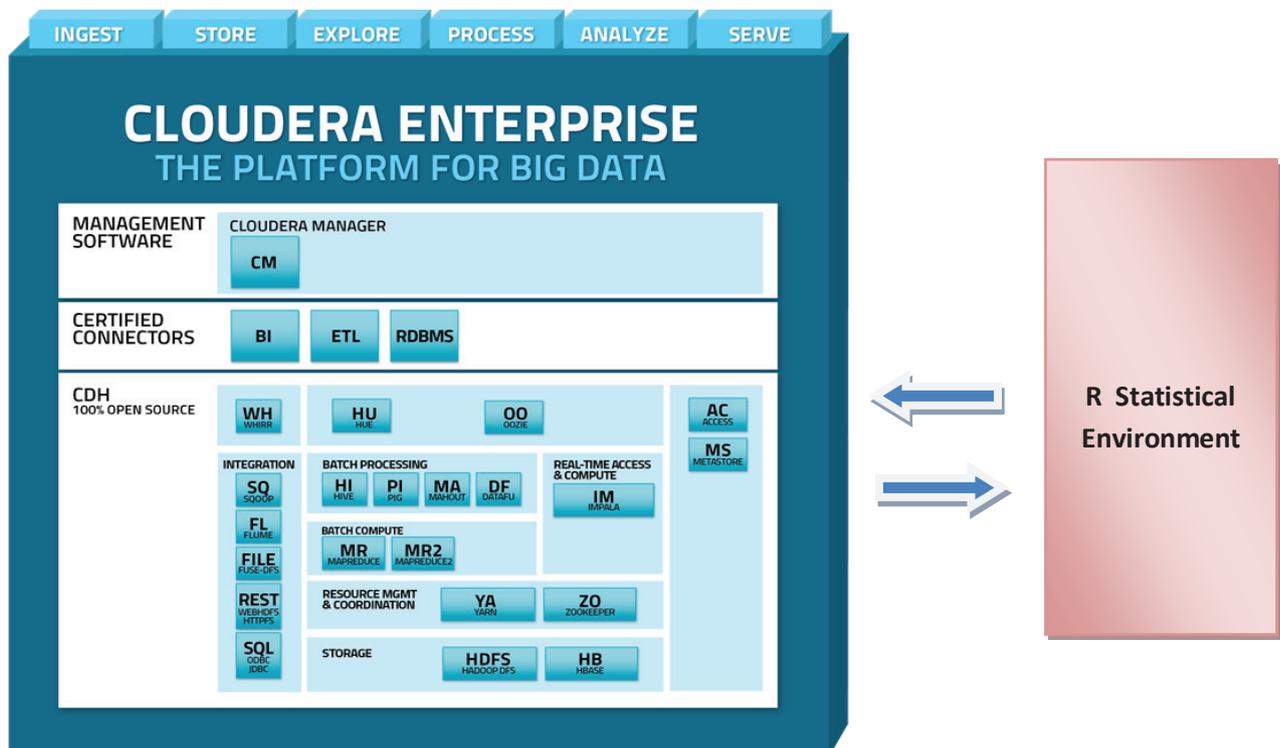


# Jump Straight from Data to Insight

Our analytical sandbox environment lets your firm:

- Gain a combination of **physical** and **SaaS** sandbox.
- Avoid using IT resources for deployment or maintenance. Our analytics sandbox is hosted, operated, and supported by Capgemini.
- Eliminate the need to provision hardware or plan requirements. Our solution is completely scalable.
- Support the ability for business stakeholders to perform exploratory analysis on appropriate data.
- Fast track analytical big data proof of concepts in a contained environment before committing to a full scale big data solution.
- Perform analysis on the Terabytes/Petabytes of stored data using a full big data and analytics toolset.
- Provide end users with prebuilt use case proof of concept packages such as sentiment analytics, time series analysis and visualization.
- Utilize preloaded high level security features such as data masking and security privileges to access the stored data.

## Big Data Analytics Sandbox: Typical Configurations



# Implement Case Applications Based on Accelerators and Proof of Concepts

Capgemini's Big Data Analytics Sandbox can help your firm implement unique case applications based on existing accelerators and already-developed proof of concepts.

Our **generic and customizable** solutions include:

- **Sentiment Analysis.** Generate a sentiment score for input data using a taxonomy specific to financial services or insurance along with positive/negative word lists.
- **Time Series Analysis.** Create time series data patterns based on input data, analyzing thousands of combinations of potential basket trades between counterparties and choose the most profitable or otherwise desirable opportunities.
- **Elastic Search.** Light weight search solution interface to search the stored datasets. Based on the implementation of elastic search APIs, this solution allows multiple pre-configured search queries to constantly monitor the data streams and detect a change in data.
- **Big Data Visualization.** Generate visualization on large, non-homogenous and at times noisy data, providing a qualitative overview useful for further quantitative analysis. This solution allows multiple dimensions to be represented with simplicity and elegance, especially geo and chronology.

For more information, contact us at: [financialservices@capgemini.com](mailto:financialservices@capgemini.com)  
or visit: [www.capgemini.com/financialservices](http://www.capgemini.com/financialservices)



## About Capgemini

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Learn more about us at  
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