



Scalable Big Data Architecture: A practitioners guide to choosing relevant Big Data architecture

Bahaaldine Azarmi

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Most people think that Big Data projects start directly with the deployment of large distributed clusters of heavy map reduce jobs, whereas reality shows that there isn't any unique/perfect solution to solving problems when dealing with large volumes of data.

By knowing the different Big Data integration patterns, you will understand why most of the time you will have to deploy a heterogeneous architecture that fulfills different needs, and furthermore what limits each pattern that may lead you to choose effective alternates.

We will go through real concrete industry use cases that leverage these patterns such as REST API which requests large amount of data stored in No-SQL like Couchbase and Elasticsearch. We will see how massive data processing can be done in such No-SQL databases without the need of diving deep into Big Data.

But when the volume is too high and the data structures gets too complex, the kind of pattern being employed reaches its limits and that's when we can start thinking of delegating complex data processing jobs to, for example, a Hadoop based Big Data architecture.

The difficulty is to then choose a relevant combination of big data technologies available within the Hadoop ecosystem. We will focus on processing long jobs, architecture, stream data patterns, log analysis, and real time analytics. Every pattern will be illustrated with practical examples, which uses the different apache projects such as Avro, Spark, Kafka, and so on.

Traditional Big Data infrastructures are built for digesting and rendering data synthesis and analytics from large amount of data. This book will also help you to understand why you should consider using machine learning algorithms early on in the project, before being overwhelmed by constraints implied by dealing with high throughput of Big data.

What you'll learn

1. The difference between fundamentals Big Data patterns
2. Leveraging No-SQL databases Big Data features
3. Common Big Data enterprise patterns
4. Choosing the best set tools available within the hadoop system for the your Big Data set up.
5. How to employ machine learning earlier on in the project once the data being processed becomes substantially large.
6. How to enhance the visibility and to monitor your Big Data Architecture through effective governance.

Who this book is for

Progressive Big Data Architecture is for developers, data architects, data scientists looking for a better understanding of how to choose the most relevant architecture/pattern for a Big Data project and also what

are the tools and projects, which should be integrated in this pattern.

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