



# TRIFORCE BIG DATA SOLUTIONS BRIEF

Triforce Professional Services

## TRIFORCE SERVICES FOR HADOOP

### What is Big Data?

Big Data is a collection of data sets so large and complex that it becomes difficult to process using on-hand database management tools. The challenges include capture, managing, storage, search, sharing, analysis, and visualisation.

Everyone knows that data is growing exponentially. What's not so clear is how to unlock the value it holds. With Apache Hadoop, no data is too big. Hadoop's ability to grow virtually without limits means businesses and organisations can now unlock potential value from all their data.

### Apache Hadoop

Apache Hadoop is a new way for enterprises to store and analyse data.

Hadoop utilizes clusters of machines and coordinates work among them. Clusters can be built and scaled out with inexpensive computers. The Hadoop software package includes:

- Hadoop Distributed File System (HDFS): A massively data parallel file system that provides a low-cost redundant file system

- MapReduce: A parallel programming framework for extracting, transforming, and exporting information from unstructured data

### THE TRIFORCE DIFFERENCE

Many IT organisations are talking about Big Data but do they have any experience actually deploying a solution? At Triforce the answer is YES. We have partnered with Cloudera, the leader that is setting the standard for Apache Hadoop in the enterprise and have actively worked with large Australian enterprise customers to deploy Big Data Infrastructure solutions. We have qualified and experienced Big Data Consultants along with Cloudera Certified Developers (CCDH) and Administrators (CCAH) for Apache Hadoop, to deliver an integrated solution.

### Triforce Big Data Consulting Services

Triforce Big Data Consultants can help your organisation navigate the complexities of handling and identifying pathways to value from your information sources. Our services include:

- Developing a strategy to identify, capture, manage, secure and analyse your data.
- Designing a reference architecture for integrating and analysing structured and unstructured data to reduce the time to insight and value.
- Defining business cases to use technologies like Hadoop to analyse your data.
- Protect and archive data to meet compliance requirements
- Partnering with Ambiatra for Data Analytics and Insights

## Triforce Big Data Infrastructure Services

Triforce can design and implement your new Big Data Hadoop infrastructure to help unlock the real value of your data. Our services include:

- Hadoop Core Installation Services
  - Includes setting up a working Hadoop cluster environment with Cloudera Distribution for Apache Hadoop CDH4, including a functional HDFS Map Reduce Hadoop Cluster. Our Hadoop Cluster services leverage Tier 1 hardware vendors for enterprise ready Hadoop deployments.
- Hadoop Client & Ingest/Analysis Tools Integration
  - Includes setting up of Hadoop client tools such as: Pig, Hive, Sqoop, Flume, Fuse, Hue, Oozie, Mahout and others as required
- Hadoop Kerberos Security Integration
  - Our Hadoop Kerberos Integration service integrates a Hadoop cluster and associated daemons with Kerberos Principals and Keytab Token based Authentication, securing the Hadoop cluster from unauthorized access. We can also integrate your current Active Directory with Hadoop cluster to have one way pass-through authentication for users.

## Triforce Big Data Managed Services

Triforce can manage your Big Data Infrastructure to reduce the ongoing management and operational costs. Our services include:

- Cloudera Hadoop platform administration including performance tuning
- Hadoop cluster server and network administration and monitoring
- Cloudera Manager access management and security administration
- HDFS and Map Reduce service management
- HDFS storage utilisation and monitoring



## ABOUT TRIFORCE

Triforce provides critical, reliable IT infrastructure solutions and services to some of the top 200 ASX listed corporations and subsidiaries of companies with an Australian presence. Spanning a 19 year history, Triforce has underpinned its performance with a customer orientated culture and strong engineering capability.

Triforce is dedicated to architecting and delivering sophisticated infrastructure solutions and to resolving complex technical issues as well as helping to align your IT to your business objectives. Triforce is also one of Australia's leading suppliers of computing hardware, software and networking IT technology.

Our value lies in the ability to design, procure, supply and integrate multivendor IT infrastructure solutions with a high degree of flexibility spanning a cross section of mid-size to enterprise customers. With over 19 years of IT infrastructure supply and integration experience, Triforce comprises of an experienced team of professionals who bring a valuable cross section of skillsets and specialisation to support customers IT systems requirements. Triforce is focused on assisting customers align business needs to IT infrastructure.

Our success over the past two decades has come from providing a service that delivers cutting edge solutions to customers that other solution providers have shied away from.

