**Hadoop Architecture and HDFS**

[Hadoop](https://www.it-skillstraining.com/)  generally preferred to as Apache hadoop is basically an open source software specially designed for storage, management and high precise processing of huge data on hardware clusters.  [Hadoop](https://www.it-skillstraining.com/)  Architecture’s working highly depends on its building blocks and it is mainly composed of five major building blocks. They are:

* **MapReduce Framework :** It is the most important part if the framework. The basic software part that supports the implementation of map paradigm.
* **YARN Infrastructure**: The computation resources required for the framework is accomplished by the Yarn Infrastructure.
* **HDFS Federation:**This entity is responsible for giving you the permanent and reliable storage of both the input and the output data.
* **Storage**: It is an additional support system for intermediate storage of data.
* **Cluster:** It makes the hardware of the complete architecture.

The scope of Hadoop in the coming time is going to be big. The increase in demand of Hadoop for management of data will lead to increase in demand of trained Hadoop professionals. You can educate yourself with [Big Data Hadoop](https://www.it-skillstraining.com/) **Certification Course** to excel in the race of future demand of this architectural software.

**Purpose:**

HDFS or  [Hadoop](https://www.it-skillstraining.com/)  Distributed File System was designed for the purpose of managing the distributed data on commodity hardware. It is the best application for managing the applications having a huge data sets.

**Features:**

1. **Failure Of Hardware:**

Hardware failure is very common and usual. Management of data using HDFS employs several machines and the data is segregated between them. In case of hardware failure it is easy to find out the error and HDFS offers the recovery automatically.

1. **Support To Large Data Sets:**

The data sets having the file size varying between gigabytes to terabytes can be accessed easily using HDFS. It provide support to millions of files in a go and combines hundreds of files in a single data cluster.

1. **Data Replication:**

It supports the replication of data. While creating a file an application can define the number of replicas of the file required which can be changed later if required.

1. **Streaming Use of Data Sets:**

HDFS is generally designed for applications that require batch processing rather than access of usual data by the users. The basic purpose of this architecture system is to achieve high throughput of streaming data access.

According to a recent survey in January 2017 Hadoop market is expected to grow to a minimum of 40 billion dollars by 2021 which was only 6.71 billion dollars last year.   
If you are a technocrat, you can secure a good future by taking up with Hadoop Training.   
You can learn a lot about Hadoop on the official website Apache Hadoop by self studies or you can also take up with various **Big Data Hadoop Training course** that are available online for better and structured learning.

**Online Hadoop Training Certifications:**  
  
There are various sources that avails you with [Big Data Hadoop Certification](https://www.it-skillstraining.com/) **Course.** They are detailed as under:

* **IBM developerWorks:**  
  The IBM developerWorks provides with numerous free tools and tutorials related to big data analytics, cloud computing and several other technologies of IBM.   
  It serves you with a good and a helpful tutorial named ‘ Open Source Big Data for Impatient’ to learn the fundamentals of Big data and Hadoop.
* **hadoop-online-tutorials.com**  
  This blog serves you with several Hadoop Online Training tutorials. The tutorials are available with both paid as well as free training tutorials. And are good read for to acquire knowledge related to Hadoop Software.
* **YouTube:**  
  YouTube is the biggest hub that owes videos related to any category and every topic. Your search for Hadoop Training on YouTube provides you with best of videos and training tutorials that can readily do your needful.
* **Microsoft Virtual Academy:**  
  If you are searching for any sort of online training related to big data Analytics, Microsoft Virtual Academy may put an end to your search. It provides you with various free video and [Big Data Hadoop Certification](https://www.it-skillstraining.com/) **Course** related to hive, sqoop, oozie etc.. The Hadoop tutorials on the website basically focuses on HDInsight, it is nothing but Microsoft's version of Hadoop that runs on Azure cloud.
* **Udemy:**  
  Udemy.com is the best online learning platform. It provides you with certified technical courses online. It includes several learning tutorials, reference websites, videos etc… It trains you profoundly with Hadoop Fundamentals . Prepares you for several examinations by giving you question answer banks for preparation. It gives you a best option for learning and testing your skills.

Big data Analytics finds its application in arranging the bulk data in almost all the sectors including banking, e-commerce, IT, Architecture, Healthcare and medical etc… You can complete the **Big Data Hadoop Training course** on its various components of yarn, pig, mapreduce and Apache spark etc… and can earn a secured future by growing hand in hand with evolving scope of this much needed software in almost all the fields. The professional and developers having a good hand on Hadoop will experience a noticeable hike in near future.   
 keep Trying to get good results.

I would love to share meaning of Big information hadoop course and SAP course :-

Offer Data Hadoop Stands for : It is an open-source device rely on java stage and concentrates on enhanced execution as far as data prepare on bunches of exchange products equipment. Hadoop incorporates of various thoughts and modules like HDFS, Map-Reduce, HBASE, PIG, HIVE, SQOOP and ZOOKEEPER to play out the clear and snappy procedure of monster data.

SAP Course remains for :- SAP Software Classes and Courses Overview. Frameworks, applications and item (SAP) PC code is utilized by organizations of all sizes to oversee money related learning, work force and business operations. instructing classes in SAP PC code educate numerous abilities, similar to operation