Overview of Hadoop Ecosystem

Hadoop Ecosystem Components

- **HDFS**: Hadoop Distributed File System. Stores data files as close to original form as possible.
- HBase: Hadoop's database; supports structured data storage for large tables (like RDBMS).
- Hive: Enables analysis of large datasets using SQL-like language.
- Pig: Simple data flow language for large dataset analysis. Converts scripts to MapReduce jobs.
- Sookeeper: Coordination service for distributed applications.

Hadoop Ecosystem Components (Contd.)

- **Oozie**: Workflow scheduler to manage Hadoop jobs.
- Mahout: Scalable machine learning and data mining library.
- Ohukwa: Data collection system for managing large distributed systems.
- Sqoop: Transfers bulk data between Hadoop and relational databases.
- Ambari: Web-based tool for provisioning, managing, and monitoring Hadoop clusters.