

GOVERNANCE & INTEGRATION

Data Lifecycle & Governance

Falcon

Atlas

Data workflow

Sqoop

Flume

Kafka

NFS

WebHDFS

TOOLS

Zepplin

Ambari User Views

DATA ACCESS

Batch

Map Reduce

Script

Pig

Sql

Hive

NoSql

HBase

Accumulo

Phoenix

Stream

Storm

Search

Solr

In-Mem

Spark

Others

HAWQ

Partners

Tez

Tez

Slider

S

T

YARN: Data Operating System

HDFS

Hadoop Distributed File System

DATA MANAGEMENT

SECURITY

Administration

Authentication

Authorization

Auditing Data Protection

Ranger

Knox

Atlas

HDFS Encryption

OPERATIONS

Provisioning, Managing, & Monitoring

Ambari

Cloudbreak

ZooKeeper

Scheduling

Oozie