Hadoop Training

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HADOOP TRAINING COURSE CONTENT

MAP REDUCE

- Map Reduce Architecture
- Map Reduce Programing Model
- Map Reduce Program structure
- Hadoop streaming
- Executing Java – Map Reduce Job
- Understanding of Java Map Reduce Classes
- Configuration
- Path
- Job
- Mapper
- Reducer
- Text
- Intwritables
- Long writables
- File Input Format
- File Output Format
- Generic Options Pavser

Joining Datasets in Map Reduce Jobs

- Map Joins
- reduce Joins

Combiners Partitioners

- Python Map Reduce
- Unit Testing Mapeduce Jobs
- Hadoop Pipelining
- Creating Input and Output Formats in Map Reduce Jobs
- Text Input Format
- Key Value Input Format
- Sequence File Input Format
- Data Localization in Map Reduce
- Examples

HIVE

- Introduction
- Hive Architecture
- Hive Metastore
- Hive Query Launguage
- Difference between HQL and SQL
- Hive Built in Functions
- Hive UDF (user defined functions)
- Hive UDAF (user defined Aggregated functions)
- Hive UDTF (user defined table Generated functions)
- Hive Serde?
- Hive & Hbase Integration
- Hive Working with unstructured data
- Hive Working With Xml Data
- Hive Working With Json Data
- Hive Working With Urls And Weblog Data
- Hive – Json – Serde
- Loading Data From Local Files To Hive Tables
- Loading Data From Hdfs Files To Hive Tables
- Tables Types
- Inner Tables
- External Tables
- Partitioned Tables
- Non – Partitioned Tables
- Dynamic Partitions In Hive
- Concept Of Bucketing
- Hive Views
- Hive Unions
- Hive Joins
- Multi Table / File Inserts
- Inserting Into Local Files
- Inserting Into Hdfs Files
- Array Operations In Hive

Map (Associative Arrays) Operations in Hive

- Hive UDF by Java
- Hive UDF by Python

PIG

- Introduction to pig
- Pig Latin Script
- Pig Console / Grunt Shell
- Execting Pig Latin Script
- Pig Relations, Bags, Tuples, Fields
- Data Types
- Nulls
- Constants
- Expressions
- Schemas
- Parameter Substitution
- Arithmetic Operators
- Comparison Operators
- Null Operators
- Boolean Operators
- Defence Operators
- Sign Operators
- Flatten Operators
- Caster Operators

Relational Operators in Pig

- ICOGROUP
- CROSS
- DISTINCT
- FILTER
- FOREACH
- GROUP
- JOIN (INNER)
- JOIN (OUTER)
- LIMIT
- LOAD
- ORDER
- SAMPLE
- SPILT
- STORE
- UNION

Diagnostic Operators in Pig

- Describe
- Dump
- Explain

- Illustrate

Eval Functions in Pig

- AVG
- CONCAT
- COUNT
- CONI-STAR
- DIFF
- IS EMPTY
- MAX
- MIN
- SIZE
- SUM
- TOKENIZE
- writing Custom UDFS in Pig
- Using Java
- Using Python

SQOOP (SQL + HADOOP)

- Introduction to Sqoop
- SQOOP Import
- SQOOP Export
- Importing Data From RDBMS to HDFS
- Importing Data From RDBMS to HIVE
- Importing Data From RDBMS to HBASE
- Exporting From HASE to RDBMS
- Exporting From HBASE to RDBMS
- Exporting From HIVE to RDBMS
- Exporting From HDFS to RDBMS
- Transformations While Importing / Exporting
- Defining SQOOP Jobs

NOSQL

- What is "Not only SQL"
- NOSQL Advantages
- What is problem with RDBMS for Large
- Data Scaling Systems
- Types of NOSQL & Purposes
- Key Value Store
- Columer Store
- Document Store
- Graph Store
- Introduction to ricsk – NOSQL Database
- Introduction to cassandra – NOSQL Database
- Introduction to MangoDB and CouchDB Database
- Introduction to Neo4j – NOSQL Database
- Intergration of NOSQL Databases with Hadoop

HBASE

- Introduction to big table
- What is NOSQL and colummer store Database
- HBASE Introduction
- Hbase use cases
- Hbase basics
- Column families
- Scans
- Hbase Architecture
- Clients
- Rest
- Thrift
- Java
- Hive
- Map Reduce Integration
- Map Reduce Over Hbase
- Hbase data Modeling
- Hbase Schema design
- Hbase CRUD operators
- Hive & Hbase interagation
- Hbase storage handles

OOZIE

- Introduction to OOZIE
- OOZIE as a seheduler
- OOZIE as a Workflow designer
- Seheduling jobs (OOZIE CODE)
- Defining Dependences between jobs
- (OOZIE Code Examples)
- Conditionally controling jobs
- (OOZIE Code Examples)
- Defining parallel jobs (OOZIE Code Examples)

FLUME

- Introduction to FLUME
- What is the streaming File
- FLUME Architecture
- FLUME Nodes & FLUME Manager
- FLUME Local & Physical Node
- FLUME Agents & FLUME Collector

ZOOKIPER

- Introduction to ZOOKEEPER
- ZOOKEEPER Architecture
- Controlling Connection of Distbrited Apps
- HBASE & ZOOKEEPER

- Flume & ZOOKEEPER
- A Sample Code

Free On Hadoop Course

- Phyton & Pydoop
- Mongo DB
- Cascading

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