

(Course Content of Big Data Hadoop(Intermedi	iate+ Advanc	e)
	Pre-requistes: knowledge of Core Java/ Oracle	: Basic of Un	ix
S.no	Topics	Date	Status
	Introduction to Big Data & Hadoop		
	Importance of Data& Data Analysis		
	What is Big Data		
	Big Data & its hype		
	Big Data Users & Scenerios		
	Structured Vs Unstruxtured Data		
	Challenges of Big Data		
	How to overcome the challenges		
	Divide & Conquer philosophy		
	Oveview of Hadoop		
	Hadoop and its file system- HDFS		
	History of Hadoop		
	Hadoop ecosystem		
1	Hadoop Animal Planet		
	What is Hadoop		
	Key Distinction of Hadoop		
	Hadoop components		
	HDFS		
	Map Reduce		
	Why Distributed File System		
	The Design of HDFS		
	Hadoop Distributed File System		
	What is HDFS block		
	Why HDFS block is so large in HDFS		
	Name Node		
	Data Node		
	Secondary Name Node		
	A file in HDFS		



1	1 1
Hadoop Components/ Architecture	
Name node, Job Tracker, Data Node, Task Tracker & Secondary Name node	
Understanding stroage components(Name node, Dat Node & Secondary Name node)	ra
Understanding processing componets (Job Tracker & Task Tracker)	
Anatomy of file read	
Anatomy of file write	
Understanding Hadoop cluster	
Walkthrough of CDH VM setup	
Hadoop Cluster modes	
Standalone Mode	
Distributed Mode	
Hadoop Configuration files	
Core-site .xml	
hdfs-site.xml	
yarn-site.xml	
Understanding cluster confriguration	
Map Reduce	
Meet Map Reduce	
Word count algorithm- Traditional approach	
Traditional approach on Distributed system & its's drawback	
Map reduce approach	
Input & Output forms of MR program	
Imput & Output forms of win program	



	Map, shuffle& sort, Reduce Phases	
	Workflow & Transformaton of Data	
	Word Count code walkthrough	
	Input split & HDFS Block	
	Relation between split & block	
	MR Flow with single reduce task	
	MR flow with multipile reducers	
	Data locality Optimization	
	Speculative Execution	
	Combiner	
	Partitioner	
	Advance Map Reduce	
	Input Format & its hierarchy	
	Output format & its hierarchy	
	Using Compressin techniques	
	Side Data Distribution- Distibuted Cache	
	Joins	
	Map side join using Distributed Cache	
	Reduce side join	
	Secondary Sorting	
	MR Unit - An Unit testing framework	
	Pig	
2	What is Pig	
	Pig Vs SQL	
	Execution types or modes	
	Running Pig	
	Pig Data types	
	Pig Latin Diagnostic operators	
	Pig Latin Macro & UDF statements	
	Pig Latin commands	
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	Pig Latin expressions	
	Schemas	
	Pig Functions	
	Pig Latin file loaders	
	Pig UDF & executing a Pig UDF	
	Pig Use Cases	
	Hive	
	Introduction to Hive	
	Pig Vs Hive	
	Hive Limitation & Possibilities	
	Metastore	
	Hive QL	
	SQL Vs Hive QL	
	Hive Data Types	
	Data Storage	
	Manged & External Tables	
	Partitions & Buckets	
	Static Partitioning & Dynamic Partitioning	
3	Storage Formats	
	File Formats- Sequence File & RC File	
 - 	Using Compression in Hive	
	Built in Serdes	
	Importing Data(Using Load Data & Insert Into)	
-	Alter & Drop Commands	
	Data Querying	
	Using MR Scripts	
	Hive Joins	
	Sub Queries	
	Views	
	Hbase	
	Introduction to NoSQL & Hbase	
4	Hbase Use Cases	
	Row & Column oriented storage	

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What is Hbase Hbase Data Model Hbase Logical model & physical storage Hbase architecture Hbase in operation (put, get, scan & delete) Loading Data into Hbase Hbase shell commands Hbase operations through Java Hbase operations through MR Introduction to Zookeeper Distributed Coodination Zookeeper Data Model Zookeeper Service Introduction to Zookeeper Distributed Coordination Zookeeper Data Model Zookeeper Data Model Zookeeper Data Model Sookeeper Data Model Sookeeper Data Model Sookeeper Service Introduction to Soope Distributed Coordination Soope Introduction to Sqoop Sqoop design Sqoop design Sqoop basis commands Sqoop table import flow of execution 5 Sqoop Inremental Import Incremental Append Incremental Last Modified Sqoop export flow of execution Sqoop Export Command Flume		Characteristics of huge DB	
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6 Flume Architecture			
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Flume Components		Flume Components	

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Streaming live Twitter data with Flume Hadoop 2.0 & YARN Hadoop 1 Limitations HDFS Federation Name Node High Availablity Introduction to YARN YARN applications YARN Architecture Anatomy of an YARN application Mongo DB Spark Overview Why Spark Spark Big Data Spark Components Resilient Distributed Data Sets Data Operations on RDD Spark Libraries Scala Object Oriented Programming Introduction to Scala Why Scala Scala Vs Java Installing of Scala Installing of Stala Installing of Stala Installing of Stala Installing of Scala Installing of Stala Operators Operators Operators Operators Operators Operator Overloading Scala Control Statement Call by Name and Call by value			
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Literal's in Scala Operators Operator Overloading Scala Control Statement		Method Declerations	
Operator Overloading Scala Control Statement			
Scala Control Statement		Operators	
Scala Control Statement		Operator Overloading	
Call by Name and Call by Value			
can by realise and can by value		Call by Name and Call by value	
Pattern Macthings			



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1	Implicit Conversions	
Ī	Traits	
Ī	Abstraction	
	Inheritance	
	Collections(List, Tuple, Set, Arrays, Buffer, Map)	
	Scala Functional Programming	
	What is Functional Programming	
	Diff. between Functional & Imperative	
	Anonymous Functions	
	Clousers	
	Currying	
	Functional Data Structures (Sequences, Map, Stes)	
	Traversal	
	Mapping	
	Flat Mapping	
	Filtering	
	Folding & Reducing	
	Spark in Detailed	
	What is Spark	
	Why Spark	
	Diff. between Map Reduce & Spark	
	Diff. between Spark & Storm	
	Installation of Spark on HDFS	
10	Installation of Spark on EC2	
	What is RDD's and creation of RDD's	
	Programming with RDD's	
	Working with Key/ Value pairs	
	Loading and saving your data	
	Advanced Spark Programming	
	Raunning on a Spark Cluster	

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	Spark Streaming	
	Spark SQL	
	Spark MLIB	
	Spark Graphix	
	Tunning & Debugging Spark	
	Kafka in Detailed	
	What is Kafka	
	Why Kafka	
	Installing Kafka on local mode	
	Installing Kafka on local mode with multiple servers	
11	Creating custom producers	
	Creating custom consumers	
	Integrating Kafka to Storm	
	Integrating Kafka to Hadoop	
	Overview of Kafka Adminstration	