

Hadoop

- a. Why Hadoop?
- b. Scaling
- c. Distributed Framework
- d. Brief history of Hadoop

Setup Hadoop

- a. Standalone, Pseudo and Fully Distributed Mode
- b. Cluster modes
- c. Ipv4
- d. SSH
- e. Installation of Java, Hadoop
- f. Configurations of Hadoop
- g. Hadoop Processes (NN,SNN,DN,JN,ZN)
- h. Common errors when running Hadoop cluster, solutions
- i. Hardware setup

HDFS- Hadoop distributed File System

- a. HDFS Design and Architecture
- b. HDFS Concepts
- c. Interacting HDFS using command line

Hadoop Processes

- a. Name node
- b. Secondary name node
- c. Stand by name node
- d. Journal nodes
- e. Data nodes



f. zookeeper nodes

HDP Installation

a. Ambari Installation

b. Hadoop Installation

Yarn

a. Resource Manager

b. Node Manager

c. Application Master

d. Container

e. Schedulers

f. Advanced Concepts

Hive

a. Basics

b. Installation and Configurations

c. Commands

HBase

a. What is HBase

b. HBase Architecture

c. HBase API

Name Node HA

Resource Manager HA

HDP & Ambari Upgrades

Hadoop Security Concepts



Kerberos (Authentication)

- a. Kerberos Installation&Configuration
- b. MIT KDC Configuration
- c. Integrate Kerberos with Active Directory
- d. Advanced Concepts

Ranger (Authorization)

- a. Ranger Installation&Configuration
- b. Ranger plugins enable in HDP Echo system
- c. Policy creation/deletion in Ranger DB
- d. Integrate Ranger with Active Directory

Knox

- a. Knox Installation
- b. How Knox works and rest API calls
- c. Integrate Knox with Active Directory



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