

HCIA-Big Data



Online Course

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Course Modules

1. Big Data Development Trends & the Kunpeng Big Data Soln

- Big Data Era
- Big Data Application Fields
- Challenges and Opportunities Faced by Enterprises
- Huawei Kunpeng Solution

2. HDFS — Hadoop Distributed File System & ZooKeeper

- HDFS
- HDFS Overview
- HDFS-related Concepts
- HDFS Architecture
- HDFS Key Features
- HDFS Data Read/Write Process
- ZooKeeper Distributed Coordination Service
- ZooKeeper Overview
- ZooKeeper Architecture



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3.HBase — Distributed Database & Hive — Distributed Data

- HBase — Distributed Database
- HBase Overview and Data Models
- HBase Architecture
- HBase Performance Tuning
- Common Shell Commands of HBase
- Hive — Distributed Data Warehouse
- Hive Overview
- Hive Functions and Architecture
- Basic Hive Operations

4.ClickHouse — Online Analytical Processg Database Managr

- ClickHouse Overview
- ClickHouse Architecture and Basic Features
- Enhanced Features of ClickHouse

5.MapReduce and YARN Technical Principles

- MapReduce and YARN Overview
- Functions and Architectures of MapReduce and YARN
- Resource Management and Task Scheduling in YARN
- Enhanced Features of YARN



6. In-memory Distributed Computing Engine & Flink — Stream

- Spark — In-memory Distributed Computing Engine
- Spark Overview
- Spark Data Structure
- Spark Principles and Architecture
- Flink — Stream and Batch Processing in a Single Engine
- Flink Principles and Architecture
- Flink Time and Window
- Flink Watermark
- Flink Fault Tolerance Mechanism

7. Flume's Massive Log Aggregation & Kafka's Distributed Msg

- Flume: Massive Log Aggregation
- Overview and Architecture
- Key Features
- Applications
- Kafka: Distributed Messaging System
- Architecture and Functions
- Data Management

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8.Elasticsearch — Distributed Search Engine

- System Architecture
- Key Features

9.MRS Huawei's Big Data Platform

- Overview of MRS
- MRS Components
- MRS Cloud-Native Data Lake Baseline Solution

10. Huawei DataArts Studio

- Data Governance
- Huawei DataArts Studio

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in terms of time management,
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