

Microsoft SQL 2019 - Big Data

Structured technical training and certification preparation

A practical, student-friendly outline covering what are Big Data Clusters?, big Data Cluster Architecture, deployment of Big Data Clusters, loading and Query...

MODULES

8

LESSONS

41

FORMAT

Self-paced

Module Breakdown

<p>MODULE 1</p> <p>What are Big Data Clusters?</p> <ul style="list-style-type: none">1.1 Introduction1.2 Linux, PolyBase, and Active Directory1.3 Scenarios	<p>MODULE 2</p> <p>Big Data Cluster Architecture</p> <ul style="list-style-type: none">2.1 Introduction2.2 Docker2.3 Kubernetes2.4 Hadoop and Spark2.5 Components2.6 Endpoints
<p>MODULE 3</p> <p>Deployment of Big Data Clusters</p> <ul style="list-style-type: none">3.1 Introduction3.2 Install Prerequisites3.3 Deploy Kubernetes3.4 Deploy BDC3.5 Monitor and Verify Deployment	<p>MODULE 4</p> <p>Loading and Querying Data in Big Data Clusters</p> <ul style="list-style-type: none">4.1 Introduction4.2 HDFS with Curl4.3 Loading Data with T-SQL4.4 Virtualizing Data4.5 Restoring a Database

Module Breakdown (continued)

<p>MODULE 5</p> <p>Working with Spark in Big Data Clusters</p> <ul style="list-style-type: none">5.1 Introduction5.2 What is Spark5.3 Submitting Spark Jobs5.4 Running Spark Jobs via Notebooks5.5 Transforming CSV5.6 Spark-SQL5.7 Spark to SQL ETL	<p>MODULE 6</p> <p>Machine Learning on Big Data Clusters</p> <ul style="list-style-type: none">6.1 Introduction6.2 Machine Learning Services6.3 Using MLeap6.4 Using Python6.5 Using R
<p>MODULE 7</p> <p>Create and Consume Big Data Cluster Apps</p> <ul style="list-style-type: none">7.1 Introduction7.2 Deploying, Running, Consuming, and Monitoring an App7.3 Python Example - Deploy with azdata and Monitoring7.4 R Example - Deploy with VS Code and Consume with Postman7.5 MLeap Example - Create a yaml file7.6 SSIS Example - Implement scheduled execution of a DB backup	<p>MODULE 8</p> <p>Maintenance of Big Data Clusters</p> <ul style="list-style-type: none">8.1 Introduction8.2 Monitoring8.3 Managing and Automation8.4 Course Wrap Up