

# Cisco Big Data Analytics, Architecture and Management (ANDMB)

Duration: **4 days**

## Who should attend?

1. Solution Architects
2. CSEs
3. System Integrators
4. Infrastructure Engineers
5. Hadoop Performance Engineers
6. Cisco Channel Partners

## Prerequisites

It is recommended, but not required, that you possess the following skills and knowledge to benefit fully from this course:

1. Cisco Unified Computing System (UCS)
2. Modern Data Center technologies
3. Modern Data Center virtualization technologies
4. Conceptual understanding of basic scripting

## Course Objectives

1. Describe how to deploy and utilize Big Data solutions that are based on a Cisco Validated design
2. Present some of the Big Data use cases before selecting the appropriate solution for the customer or your own environment
3. Describe a high-level overview of Big Data fundamentals
4. Describe Big Data storage, compute, and data networking architecture
5. Understand Hadoop core components
6. Gain working knowledge of Streaming Analytics usage
7. Identify the Cisco UCS CPA components, features, and advantages for deploying Big Data (Hadoop cluster) solutions
8. Describe the design and sizing of the compute, network, and storage component of Cisco UCS Integrated Infrastructure for Big Data
9. Identify the Cisco UCS Integrated Infrastructure for Big Data
10. Understand how Cisco Advanced Services for Big Data supports the Cisco Validated Designs that fit into Cisco CPA for Big Data
11. Explain Cisco (UCS) Director Express for Big Data product features, benefits, installation, implementation, and management

# Course Content

This course provides hands-on accelerated training on designing, installing and troubleshooting Big Data solutions using Cisco UCS Big Data Infrastructure products.

The course will explain how the reference architectures are carefully designed, optimized, and tested with the leading Big Data software distributions (Hadoop) to achieve a balance of performance and capacity to address specific application requirements. The course will cover big data fundamentals and architecture. Lessons will explore Hadoop, streaming analytics, performance tuning and UCS Director Express for big Data. You will leave this course with an introductory understanding the benefits of Cisco UCS Integrated Infrastructure for Big Data and Analytics.