Tel +44 20 4571 2395
info@siliconbeachtraining.co.uk

The Cassandra Certification helps the delegates in improving their career opportunities and gain confidence in their knowledge of Apache Cassandra. The course provides an overview of the fundamentals of Big Data and NoSQL database including features such as Fault Tolerance, Scalability, High Availability and Fast Processing. The course also provides a thorough understanding of Cassandra Database and its architecture. The training program will be conducted by leading industry experts who help the delegates to master the concepts of Apache Cassandra. The course exposes delegates to many real-life industry based Projects and case studies covering different domains like telecommunication, e-commerce, banking and social media. The Apache Cassandra Certification imparts essential skills to the delegates required to work for high paying salaries with large companies.

The Apache Cassandra is widely used in the IT organisations as it is designed to handle huge workloads across multiple datacenters without any failure. Throughout the course, the delegates will learn Cassandra configuration, architecture, installation and data modelling which will enable the delegates to build applications for big data. The course explains the integration of Cassandra with other frameworks of Apache. The course is beneficial for professionals who wish to make their career in NoSQL and Cassandra. These professionals include IT developers, Project managers, Testing professionals and Analytics professionals. By the completion of the course, the delegates will be able to manage and monitor the Cassandra Cluster, implement security measures and perform basic operations such as database user administration and checking cluster health.

Prerequisites

No formal prerequisites are required for attending the Apache Cassandra course. However, basic knowledge of Linux command, Java, Database or Data-Warehouse concepts would be beneficial.

Course Objectives

The key learnings of course include:

- Install Cassandra Single Node Cluster and its management
- Plan and model applications for Cassandra
- Get insights into the NoSQL database concepts
- Know where Cassandra is used?
- Host Cassandra on Cloud
- Explain CAP theorem, to Cassandra's History
- Know the Architecture of Apache Cassandra
- Explore Keyspaces, Tables
- Learn concepts related to Cassandra Performance Tuning
- Manage a Cluster by performing Cassandra Admin Operations

Tel +44 20 4571 2395
info@siliconbeachtraining.co.uk

- Implement Backup and Recovery Strategies for Cassandra

- Introduction to Cassandra
  - What is Apache Cassandra?
  - NoSQL Cassandra Database
  - NoSQL vs Relational Database
  - Features of Apache Cassandra
  - Use Cases of Cassandra
- Cassandra Architecture
- Data Model
- Installation
- Cassandra Cssqlsh
- Shell Commands
- Cassandra Data Types and Expiration
- Configuring Cassandra
  - Keyspace Operations
  - Replicas
  - Replica Placement Strategy
  - Replication Factor
  - Partitioners
  - Snitches
  - Create a Cluster

- Cassandra Table Operations
  - Create, Alter, Drop and Truncate Table
  - Create and Drop Index
  - Basic Statements
- CRUD Operations
- CQL Types
- Clients
- Monitoring and Maintenance
- Integrating Hadoop

The Cassandra Certification helps the delegates in improving their career opportunities and gain confidence in their knowledge of Apache Cassandra. The course provides an overview of the fundamentals of Big Data and NoSQL database including features such as Fault Tolerance, Scalability, High Availability and Fast Processing.