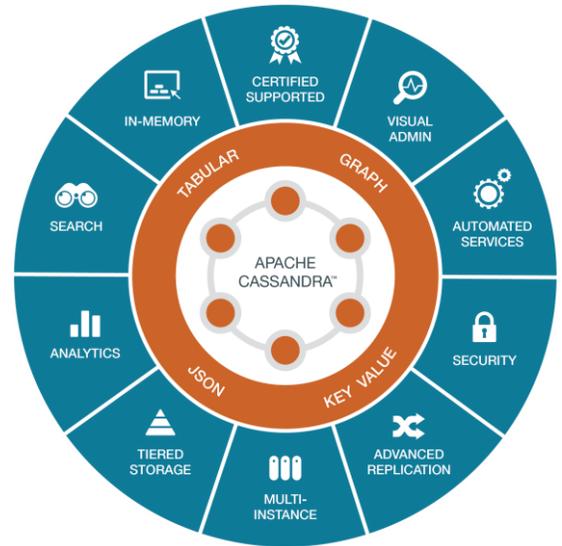# DS201: DataStax Enterprise Foundations of Apache Cassandra™

Instructor-Led Training

Overview

This course teaches the fundamentals of Apache Cassandra architecture, installation, and configuration. It serves as the foundation for other DataStax training courses. The learning objectives are:

- Install/start Cassandra
- Create tables, store, and retrieve data
- Understand the Cassandra data model
- Understand Cassandra architecture
- Explore KillrVideo domain – an app built for training

Duration	2 days
Audience	Software professionals seeking to use Apache Cassandra™
Prerequisites	Prior software administration or development experience

DATASTAX
The power behind the moment.

Course details

- Introduction
  - Introduction to Cassandra
  - Introduction to KillrVideo (App)
- Quick Wins
  - Install and Start Cassandra
  - CQL Introduction
- Cassandra Data Model
  - Partitions
  - Clustering Columns
- Application Connectivity
  - Drivers
- Distributed Architecture
  - Node
  - Ring
  - Peer to Peer
  - Consistent Hashing
  - VNodes
  - Gossip
  - Snitch

- Duplication and Consistency
  - Replication Factor
  - Consistency Level
  - Hinted Handoff
  - Read Repair
- Internal Architecture
  - Write Path
  - Read Path
  - Compaction
- Big Data

Benefits

Classroom training is delivered by DataStax experts, who will share first-hand experiences and practical use cases. A high level of interactivity with the trainer coupled with hands-on labs deliver an active learning experience.

A private, on-site training environment provides the option to tailor the delivery based on your needs and preferences. We will work with your team to determine areas requiring emphasis during delivery. Additionally, on-site training fosters teamwork and team learning that continue through the project.

DATASTAX
The power behind the moment.

For more information, please contact your account executive or send an email to training@datastax.com.

Terms

Please refer to the DataStax Services Terms for specific details regarding terms of Training delivery.

- This is a pre-paid Service offering.

- The Service expires 12 months after receipt of a valid customer order.

- The maximum class size is 20 attendees.

- This training is delivered onsite.

- A virtual classroom option is available, but we do not recommend mixing in-person and remote attendees. The remote attendees have limited learning experience in this environment.

DATASTAX
The power behind the moment.