Continuuity Reactor Capabilities

Module Objectives

In this module, you will learn:

- What is Continuuity Reactor?
- Continuuity Reactor's APIs
- Reactor as an integrated platform
- Reactor’s application lifecycle support

What is Continuuity Reactor?

Continuuity Reactor is an application server

- for modern data architecture
- deployed within the enterprise or
- deployed within the cloud

Provides a robust platform for:

- development
- deployment
- management of data applications
- management of data

Continuuity Reactor APIs

- A set of powerful yet simple APIs:
    - Java API
    - REST API
- Aim is to reduce the time to create and implement applications
- Provides a scalable, highly-available system architecture
- Hides the complexity of distributed technologies
- Hides low-level Hadoop and HBase APIs

Reactor as an Integrated Platform

Without a Big Data middleware layer, a developer has to piece together multiple open source frameworks and runtimes to assemble a complete Big Data infrastructure stack

- Reactor eases creation of these elements of Big Data applications:
    - Collecting
    - Processing
    - Storing
    - Querying data
- Data collected and stored in both structured and unstructured forms
- Processed in real-time and in batch
- Results available for retrieval, visualization, and further analysis

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Reactor's Application Lifecycle Support

Reactor supports developers through the entire application development lifecycle:

- **Development:** Maven archetype, Java API, REST API
- **Debugging:** local Reactor running on a laptop
- **Testing:** Application unit test framework
- **Continuous integration**
- **Production deployment:**
    - Development cloud (Sandbox Reactor)
    - Production cloud (Enterprise Reactor)

Module Summary

You have now seen:

- Continuuity Reactor described as an application server
- Continuuity Reactor's two APIs: Java and REST
- Reactor as an integrated platform
- Reactor's application lifecycle support

Module Completed