

Spring Boot for Microservices, MongoDB 4.x

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Textbook

- **Christian Posta. Microservices for Java Developers (2016). O'Reilly Media.**
 - Chapter 2: Spring Boot for Microservices
- **Alex Giamas. Mastering MongoDB 4.x - Second Edition (2019). Packt Publishing Limited.**
 - Chapter 12: Replication
 - Chapter 13: Sharding
 - Chapter 14: Fault Tolerance and High Availability

Sample Code

- Available at <https://go.newai.vn/2tNlzwT>

Update Log

- 29/01/2020: release first version of this slide

Objective (1)

- Spring Boot is an opinionated Java framework for building microservices based on the Spring dependency injection framework
- Spring Boot allows developers to create microservices through reduced boilerplate, configuration, and developer friction
- Spring Boot does this by:
 - Favoring automatic, conventional configuration by default
 - Curating sets of popular starter dependencies for easier consumption
 - Simplifying application packaging
 - Baking in application insight (e.g., metrics and environment info)

Objective (2)

- We will start by covering replication and how we can use it to make sure that we won't suffer any data losses
- Sharding is the next topic, which helps us to achieve horizontal scaling in MongoDB
- Finally, we will learn best practices and tips for high availability and fault tolerance when using MongoDB

Outline

(The outline of this chapter is referenced from textbooks).

Chapter Content

- Chapter contents are available in the main textbook of this course.

END OF CHAPTER