



```
100    width: 1.6em;
101    width: 3.7em;
102    transform: rotate(6.28turn);
103    transition: 0.25s all;
104    width: -webkit-calc(100%/3 - 2x1em - 24px);
105
106    transition: 0.4s 0.5s height, 0.4s 0.5s -webkit-transform;
107    transition-timing-function: cubic-bezier(0.25, 1, 0.25, 1);
108    width: -webkit-transform scale(0.9);
109    -ms-transform: scale(0.9);
110    transition: scale(0.9);
111    width: -webkit-transform-origin-y: 13px;
112    transform-origin-y: 13px;
113}
114
115@media (min-resolution: 3dppx) {
116
117    @media (transform-style: preserve-3d),
118        (transform-style: preserve-3d),
119        (transform-style: preserve-3d),
120        (transform-style: preserve-3d),
121        (transform-style: preserve-3d),
122        (transform-style: preserve-3d),
123        /* next p-rules should be colored */
124        @media (back-face-visibility: 10),
125        media(min-resolution: 3dppx) {
126
127        @keyframes scrolltest {
128
129            from {
130                background: -webkit-linear-gradient(left 25%, #e6eef1 25%);
131                background: -moz-linear-gradient(left 25%, #e6eef1 25%);
132                background: -ms-linear-gradient(left 25%, #e6eef1 25%);
133                background: linear-gradient(left 25%, #e6eef1 25%);
134            }
135
136            to {
137                -webkit-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
138                -moz-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
139                box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
140            }
141
142        }
143
144        @media (min-resolution: 3dppx) {
145
146            @media (transform-style: preserve-3d),
147                (transform-style: preserve-3d),
148                (transform-style: preserve-3d),
149                (transform-style: preserve-3d),
150                (transform-style: preserve-3d),
151                (transform-style: preserve-3d),
152                (transform-style: preserve-3d),
153                /* next p-rules should be colored */
154                @media (back-face-visibility: 10),
155                media(min-resolution: 3dppx) {
156
157                    @keyframes scrolltest {
158
159                        from {
160                            background: -webkit-linear-gradient(left 25%, #e6eef1 25%);
161                            background: -moz-linear-gradient(left 25%, #e6eef1 25%);
162                            background: -ms-linear-gradient(left 25%, #e6eef1 25%);
163                            background: linear-gradient(left 25%, #e6eef1 25%);
164                        }
165
166                        to {
167                            -webkit-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
168                            -moz-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
169                            box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
170                        }
171
172                    }
173
174                }
175
176            }
177
178        }
179
180    }
181
182    width: 1.6em;
183    width: 3.7em;
184    transform: rotate(6.28turn);
185    transition: 0.25s all;
186    width: -webkit-calc(100%/3 - 2x1em - 24px);
187
188    transition: 0.4s 0.5s height, 0.4s 0.5s -webkit-transform;
189    transition-timing-function: cubic-bezier(0.25, 1, 0.25, 1);
190    width: -webkit-transform scale(0.9);
191    -ms-transform: scale(0.9);
192    transition: scale(0.9);
193    width: -webkit-transform-origin-y: 13px;
194    transform-origin-y: 13px;
195}
196
197@media (min-resolution: 3dppx) {
198
199    @media (transform-style: preserve-3d),
200        (transform-style: preserve-3d),
201        (transform-style: preserve-3d),
202        (transform-style: preserve-3d),
203        (transform-style: preserve-3d),
204        (transform-style: preserve-3d),
205        (transform-style: preserve-3d),
206        /* next p-rules should be colored */
207        @media (back-face-visibility: 10),
208        media(min-resolution: 3dppx) {
209
210            @keyframes scrolltest {
211
212                from {
213                    background: -webkit-linear-gradient(left 25%, #e6eef1 25%);
214                    background: -moz-linear-gradient(left 25%, #e6eef1 25%);
215                    background: -ms-linear-gradient(left 25%, #e6eef1 25%);
216                    background: linear-gradient(left 25%, #e6eef1 25%);
217                }
218
219                to {
220                    -webkit-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
221                    -moz-box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
222                    box-shadow: inset 0 1px 2px rgba(0, 0, 75, .7);
223                }
224
225            }
226
227        }
228
229    }
230
231
232}
```

SPRING APACHE KAFKA COURSE



Access to Interview Opportunities with Top Companies



Industry-Relevant Curriculum Designed and Taught by Industry Experts



Hands on Project and Industry Specific Tools



Dedicated CareerSupport and Interview Preparation



Post Graduate Certificatefrom Great Lakes Executive Learning



Choosing a Microservices course in the IT industry is essential for staying at the forefront of modern software development practices. Microservices architecture, characterized by small, independent, and loosely coupled services, offers agility and scalability. By opting for a Microservices course, you equip yourself with the skills needed to design, deploy, and manage these distributed systems efficiently. This course enables you to understand the principles of decoupling, resilience, and continuous delivery, fostering the development of modular, easily maintainable applications. In an industry where rapid innovation and adaptability are key, mastering Microservices empowers you to build scalable and resilient software solutions, making you a valuable asset in the dynamic landscape of IT.





The Program helps you do grow and bloom in Industry and developed by best-in-class industry experts. It offers a blend of online learning with live and recorded lectures along with access to dedicated career support and rewarding job opportunities.

LEARN ONLINE ANYTIME, ANYWHERE

Learn from live masterclasses by top industry leaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIP FROM EXPERTS

Get assistance on projects and reinforce the concepts you learn through weekly mentorship sessions.

NETWORK WITH LIKE-MINDED PEERS

Interact with peers from diverse backgrounds and

grow your professional network.

DEDICATED PROGRAM SUPPORT

Access dedicated support on your learning journey and resolve for all your queries with help from a dedicated Program Manager.



A fresh graduate or a working professional looking to up-skill and build a career.



LEARNING PLAN

SPRING APACHE KAFKA

Module1: Introduction to Spring and Apache Kafka Integration

1.1. Introduction to Spring and Kafka

- 1.1.1. Overview of Apache Kafka
- 1.1.2. Use Cases for Kafka in Spring Applications

1.2. Setting Up the Development Environment

- 1.2.1. Installing Kafka and Zoo Keeper
- 1.2.2. Configuring Spring Framework

Module 2: Kafka Fundamentals

2.1. Kafka Architecture

- 2.1.1. Topics, Producers, and Consumers
- 2.1.2. Partitions and Brokers

2.2. Kafka Command-Line Tools

- 2.2.1. Kafka CLI for Basic Operations
- 2.2.2. Kafka Configuration Files

Module 3: Spring Kafka Basics

3.1. Spring Kafka Overview

- 3.1.1. Spring Kafka vs. Native Kafka Clients
- 3.1.2. Key Concepts in Spring Kafka

3.2. Configuring Kafka Templates and Producers

- 3.2.1. Creating Kafka Templates
- 3.2.2. Sending Messages with Producers

Module 4: Kafka Consumers with Spring

4.1. Spring Kafka Consumers

- 4.1.1. Consuming Kafka Messages
- 4.1.2. Message Listener Containers

4.2. Error Handling and Offset Management

- 4.2.1. Handling Exceptions in Consumers
- 4.2.2. Managing Offsets and Consumer Groups

Module 5:Spring Kafka Advanced Topics

5.1. Custom Serialization and Deserialization

- 5.1.1. Implementing Custom Serdes
- 5.1.2. JSON and Avro Serialization

5.2. Batch Processing with Kafka

- 5.2.1. Consuming Messages in Batches
- 5.2.2. Configuring Batch Listeners

Module 6: Kafka Streams with Spring

6.1. Introduction to Kafka Streams

- 6.1.1. Stream Processing with Kafka
- 6.1.2. Stateful vs. Stateless Processing

6.2. Building Kafka Stream Applications with Spring

- 6.2.1. Configuring Kafka Streams
- 6.2.2. Stream Processing Topologies

Module 7:Spring Kafka and Microservices

7.1. Microservices and Event-Driven Architecture

- 7.1.1. Event Sourcing and CQRS
- 7.1.2. Decoupling Microservices with Kafka

7.2. Spring Cloud Stream for Kafka

- 7.2.1. Implementing Event-Driven Microservices
- 7.2.2. Spring Cloud Stream Binders

Module 8:Kafka Connect and Integration

8.1. Kafka Connect Overview

- 8.1.1. Connectors and Tasks
- 8.1.2. Source and Sink Connectors

8.2. Configuring Kafka Connect with Spring

- 8.2.1. Creating Connect Configurations
- 8.2.2. Sink Connectors for Data Sync

Module 9:Testing and Debugging Spring Kafka Applications

9.1. Unit Testing with Embedded Kafka

- 9.1.1. Testing Kafka Components
- 9.1.2. Setting Up Embedded Kafka

9.2. Debugging Kafka Consumer Issues

- 9.2.1. Troubleshooting Kafka Consumers
- 9.2.2. Monitoring and Metrics

Module 10:Kafka Security and Scalability

10.1. Securing Kafka with Spring Security

- 10.1.1. Authentication and Authorization
- 10.1.2. SSL Encryption for Kafka

10.2. Scaling Kafka and Spring Applications

- 10.2.1. Horizontal Scaling Strategies
- 10.2.2. Load Balancing Kafka Consumers

Module 11: Real-World Kafka Use Cases

11.1. Log Aggregation with Kafka

- 11.1.1. Centralized Logging with Kafka
- 11.1.2. Log Ingestion and Analysis

11.2. Event Sourcing and Data Pipelines

- 11.2.1. Building Event-Driven Data Pipelines
- 11.2.2. Event Sourcing for Stateful Applications

Module- 12: Best Practices and Optimization

12.1. Kafka Best Practices

- 12.1.1. Design and Configuration Recommendations
- 12.1.2. Handling High Throughput

Module- 13: Final Project and Course Review

13.1. Project Proposal and Planning

- 13.1.1. Designing a Kafka-Integrated Application
- 13.1.2. Project Development Phases

13.2. Implementation and Presentation

- 13.2.1. Building the Kafka-Integrated Project
- 13.2.2. Final Project Presentation



READY TO ADVANCE YOUR CAREER?

Aboutus:<https://youtu.be/TY0Bqj1F21w>

app-<https://play.google.com/store/apps/details?id=com.livecourses.virajetech>

youtube-<https://www.youtube.com/@virajetechlive1596/videos>

whatsapp group link -

<https://chat.wG2J3zSeX3eZ2Hz0nDu18UF>