

IBM Certified Developer - Cloud Native Java with IBM Liberty 2023



ZETLAN TECHNOLOGIES
www.zetlantech.com

Online Course

IBM Certified Developer - Cloud Native Java with IBM Liberty 2023

Course Modules

1.Liberty Concepts

- Understand WebSphere Liberty features and zero migration
- Composability and flexibility of Liberty server configuration
- Understand that OpenJ9/IBM Semeru is the recommended Java runtime

2.Concepts of Cloud-native Java and Microservices

- Cloud-native Java and microservices with Liberty
- 12 and 15 factor apps
- Knowledge of standards-based cloud-native Java API through

3.Developer experience and tools

- Build and run Liberty application with Maven
- Start and stop a Liberty instance
- Configure a Liberty instance

4.Develop cloud-native java microservices

- Validate user input into web applications
- Write a RESTful client to request data from the microservice
- Synchronous and asynchronous REST clients
- Alternatives to REST (GraphQL)
- Document the API of the microservice
- External static & dynamic config of a microservice



IBM Certified Developer - Cloud Native Java with IBM Liberty 2023

5.Data persistence and transactions

- Java Persistence API (JPA) to access & persist data to a database
- Distributed session caching/caching HTTP session data

6.Security

- Understand core security concepts
- Secure RESTful APIs
- Consume secured RESTful APIs using JWT with SSO
- Secure web applications (SSO)
- Validate user input into web applications
- Understand security hardening for production
- Secure communications with TLS

7.Add telemetry/observability to microservices

- Add health checks to microservices
- Provide metrics on microservices



IBM Certified Developer - Cloud Native Java with IBM Liberty 2023

For Enquiry: +91 8680961847

8. Test Microservices

- True-to-production integration testing
- Contract testing microservice APIs

9. Containerize and deploy

- Containerize Liberty applications using Docker
- Containerize Liberty applications using Podman
- Deploy an app to Kubernetes using the Open Liberty Operator

10. Monitor and Troubleshoot

- Log and trace
- Manage logs
- Analyze JSON logs
- Detect slow and hung requests
- Monitor with metrics

Free Advice: +91 9600579474

www.zetlantech.com



**LEARN
REMOTELY!!**

The efficiency of online learning
in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.



ZETLAN TECHNOLOGIES
www.zetlantech.com

**For contact: +91 8680961847
+91 9600579474**

