

Red Hat Certified Cloud Native Developer



Online Course

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Course Modules



1. Available Dependency Injection or Lookup

- Externalize data into configured values.
- Inject configured values into beans
- Access or create a configuration.
- Default & custom ConfigSource & ConfigSource ordering.

2. Quarkus-based microservices

- Understand the relationship to MicroProfile Config.
- Understand async versus sync execution type.
- Use @Timeout.
- Understand Retry policies and apply using @Retry.
- Understand and define Fallback.
- Understand and apply CircuitBreaker.
- Understand and apply Bulkhead.
- Understand and set up fault tolerance configuration.

3. Quarkus application from another machine

- Understand and implement the HealthCheck interface.
- Udstd & apply @Liveness and @Readiness annotation.
- Understand and implement HealthCheckResponse.
- Construct human-friendly HealthCheckResponse.



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Course Modules

4. Data Quarkus application using Microprofile Metrics

- Understand and use three sets of sub-resource (scopes)
- Understand tags (labels).
- Understand and use metadata.
- Understand metric registry and @Metric.
- Expose metrics via REST API.
- Know required metrics.
- Quarkus application metrics programming model.



5. MicroProfile Interoperable JWT RBAC on Quarkus app

- Understand token-based authentication.
- OpenID Connect (OIDC)-based JSON Web Tokens(JWT)
- Role-Based Access ctrl (RBAC) of microservice endpoints
- Use JWT bearer tokens to protect services.
- Mark a JAX-RS app as requiring MP-JWT access control.
- Map MP-JWT tokens to Java EE container APIs.

6. Quarkus app & expose REST serv endpoints with JAX-RS

- Understand REST concepts, use of the HTTP PUT, etc.,
- Understand and use @Path, @Produce, and @Consume.
- Using CDI to integrate components.
- Usq bean validation to ensure data format & consistency.



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7. Simplified JPA mapping with Panache

- Diff bet the Active Record Patn & the Repository Pattern.
- Use basic JPA to create, read, update, etc.,
- Map a bi-directional one-to-many relations bet 2 entities
- Perform common Panache opt & custom entity methods.

8. Reactive messaging

- Understand reactive programming.
- Understand messaging core concept.
- Understand Channels.
- Understand Incoming and Outgoing.
- Understand message acknowledgment.



9. Microprofile OpenAPI specification to doc RESTful APIs

- Understand OpenAPI documents and the Swagger UI
- Ability to Link to (semver) remote service endpoints.
- Produce the default and custom OpenAPI document

10. Interacting with REST APIs in Quarkus

- Understand the type-safe approach
- REST concepts, Application use of HTTP PUT, etc.,
- Demonstrate the ability to create and use a REST client
- Parameterize and configure the REST client URI
- Understand and use special additional client headers.

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