



# Red Hat

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## RedHat Certified Enterprise Application Developer exam

### Study points for the course & exam

Using Red Hat JBoss EAP, you should be able to accomplish the tasks below without assistance. The tasks have been grouped into categories to assist your preparation.

#### Bean validation

- Annotate a POJO to enable and set up data validation.
- Use the documentation to find useful standard validators.

#### JPA mapping

- Annotate a POJO to map it to its persistent state representation in the database.
- Apply basic property mapping and be able to use the documentation to identify correct property annotations (e.g., @Temporal).
- Map a bidirectional OneToMany relationship between two entities, including both sides of the association.
- Understand default fetching behavior and be able to override the fetching strategy per association.

#### JPA query

- Implement basic JPA queries using named parameters.
- Create and use a named query.
- Use a query to eager fetch an association.

#### Messaging

- Understand point-to-point vs. publish/subscribe models.
- Understand JMS queues, topics, and connection factories.
- Understand and use the javax.jms.MessageListener interface.
- Implement a message-driven bean.
- Use the @MessageDriven and @ActivationConfigProperty annotations.



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## REST services with JAX-RS

- Understand REST concepts, particularly the application and use of the HTTP PUT, DELETE, GET, and POST methods.
- Know and use standard HTTP return codes.
- Implement RESTful Root resource class.
- Expose a REST service using JAX-RS.
- Demonstrate ability to define @Path.
- Understand and use @Produce and @Consume.
- Be able to both consume and produce xml- and json-formatted content using JAX-RS.

## Security

- Understand basic JAAS terms and concepts.
- Understand the JAAS authentication details that will be provided to you.
- Secure server-side services (REST services and EJBs) using JAAS annotations.

## CDI

- Understand contextual scopes.

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.