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#1 Online Certification Guide

IBM C1000-155

IBM Liberty Cloud Native Java Developer Certification Questions & Answers

Exam Summary – Syllabus –Questions

C1000-155

IBM Certified Developer - Cloud Native Java with IBM Liberty 2023

63 Questions Exam – 71% Cut Score – Duration of 90 minutes

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Know Your C1000-155 Certification Well:

The C1000-155 is best suitable for candidates who want to gain knowledge in the IBM Cloud - Management and Platform. Before you start your C1000-155 preparation you may struggle to get all the crucial Liberty Cloud Native Java Developer materials like C1000-155 syllabus, sample questions, study guide.

But don't worry the C1000-155 PDF is here to help you prepare in a stress free manner.
The PDF is a combination of all your queries like-

- What is in the C1000-155 syllabus?
- How many questions are there in the C1000-155 exam?
- Which Practice test would help me to pass the C1000-155 exam at the first attempt?

Passing the C1000-155 exam makes you IBM Certified Developer - Cloud Native Java with IBM Liberty 2023. Having the Liberty Cloud Native Java Developer certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

IBM C1000-155 Liberty Cloud Native Java Developer Certification Details:

Exam Name	IBM Certified Developer - Cloud Native Java with IBM Liberty 2023
Exam Code	C1000-155
Exam Price	$200 (USD)
Duration	90 mins
Number of Questions	63
Passing Score	71%
Books / Training	**IBM Liberty**
Schedule Exam	**Pearson VUE**
Sample Questions	**IBM Liberty Cloud Native Java Developer Sample Questions**
Practice Exam	**IBM C1000-155 Certification Practice Exam**

C1000-155 Syllabus:

Topic	Details	Weights
Liberty concepts	- Understand WebSphere Liberty features and zero migration - Understand the composability and flexibility of Liberty server configuration - Understand that OpenJ9/IBM Semeru is the recommended Java runtime	8%
Concepts of cloud-native Java and microservices	- Cloud-native Java and microservices with Liberty - 12 and 15 factor apps - Demonstrate knowledge of standards-based cloud-native Java API through (primarily) MicroProfile	7%
Developer experience and tools	- Build and run Liberty application with Maven - Start and stop a Liberty instance - Configure a Liberty instance	8%
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 and dynamic configuration of a microservice and understand when to use and which methods to use	25%
Data persistence and transactions	- Use Java Persistence API (JPA) to access and 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	11%
Add telemetry/observability	- Add health checks to microservices - Provide metrics on microservices	16%

Topic	Details	Weights
to microservices		
Test microservices	- True-to-production integration testing - Contract testing microservice APIs	6%
Containerize and deploy	- Containerize Liberty applications using Docker - Containerize Liberty applications using Podman - Deploy an application to Kubernetes using the Open Liberty Operator	5%
Monitor and troubleshoot	- Log and trace - Manage logs - Analyze JSON logs - Detect slow and hung requests - Monitor with metrics	8%

IBM C1000-155 Sample Questions:

Question: 1

A team is planning for a migration to a more modern application server suitable for cloud. What is one of the reasons the team should migrate to Liberty?

a) It is closed-source and thus more secure.
b) It has a high server throughput than other Java EE application servers.
c) It has one of the fastest startup times of any Java EE application servers
d) It fully supports applications running in traditional WebSphere Application Server.

Answer: c

Question: 2

How does Open Liberty's zero migration guarantee benefit application development?

a) It ensures that applications must be updated with each runtime version.
b) It enables developers to use deprecated APIs without any performance impact.
c) It provides stability and predictability for applications across runtime updates.
d) It restricts the application to use only those features available in the initially deployed runtime version.

Answer: c

Question: 3

Which protocol is used by OpenID Connect for authentication and authorization to build identities that uniquely identify users?

a) OAuth 2.0
b) LTPA 1
c) Kerberos 1.0
d) User Registry

Answer: a

Question: 4

Which Jakarta EE 10.0 programming model web services technology is supported on all Liberty editions?

a) Jakarta Architecture for XML Binding 3.0
b) Jakarta XML Web Services 3.0
c) Jakarta Web Services Metadata
d) Jakarta RESTful Web Services (JAX-RS) 3.1

Answer: d

Question: 5

Which statement is true about the user-defined Liberty feature manifest file?

a) Subsystem-Name is a required header.
b) It uses a custom type of Subsystem: osgi.system.feature.
c) Attributes take the form name:=value, but directives take the form name=value.
d) It uses the Subsystem Service metadata format in the OSGi Enterprise R5 specification.

Answer: d

Question: 6

Why would one augment POJOs with OpenAPI annotations in an Open Liberty application?

a) To increase the complexity of the application
b) To document the API automatically
c) To restrict API access to authorized users only
d) To comply with Open Liberty's requirements

Answer: b

Question: 7

What does an LTPA token contain?

a) Application Server credentials
b) Application IP address and cookie
c) ApplicationID and Last Accessed time
d) User information and expiration time

Answer: d

Question: 8

Which statement is true about Liberty zero-migration architecture?

a) Liberty images update automatically.
b) Liberty runtime is automatically updated on startup.
c) Liberty only releases security fixes which do not require migration.
d) The same version of configuration files can be used across multiple versions.

Answer: d

Question: 9

Which statement is true about the jdbc driver tracing?

a) Trace can be set in the bootstrap.properties file or server.xml.
b) No log writers are provided for common database vendors.
c) servlet-3.0 is a required feature for enabling jdbc driver trace.
d) Supplemental tracing is an invalid option if driver does not support custom tracing.

Answer: a

Question: 10

Which Java EE 8 programming enterprise application technology is supported on Liberty core?

a) J2EE Management 1.13
b) Java Transaction API (JTA) 1.3
c) Java Message Service (JMS) API 2.0
d) Java EE Connector Architecture (JCA) 1.7

Answer: b

Study Guide to Crack IBM Liberty Cloud Native Java Developer C1000-155 Exam:

- Getting details of the C1000-155 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the C1000-155 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the IBM provided training for C1000-155 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the C1000-155 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on C1000-155 practice tests is must. Continuous practice will make you an expert in all syllabus areas.