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Enterprise Computing Solutions - Education Services

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Developing Cloud-Native Applications for Bluemix

CODE:	DURÉE:	PRIX H.T.:
CK102G	16 Hours (2 Jours)	€1,400.00

Description

This course shows you how to design and develop cloud-native applications, ones that aren't just cloud ready or cloud hosted but that take maximum advantage of the cloud. It teaches practices for developing cloud applications, using Java EE as the primary programming language. You also learn how to deploy these applications using Bluemix, with its platform capabilities, PaaS capabilities, and its services.

Objectifs

After you complete this course, you can perform the following tasks:

- Explain in detail the characteristics of a cloud-native application
- Describe Cloud Adoption Pattern to use application in cloud
- List the twelve factors for application in cloud
- Apply best practices to architect a cloud-native application using Java EE
- Design microservices as the building block for your application
- Use various data sources that can be used by your Bluemix application
- Describe and apply security for your cloud-based application

Audience

This course is designed for application developers who are responsible for designing and building applications in cloud-based environments, such as IBM Bluemix.

Prérequis

Before taking this course, you should have the following skills:

- Basic Java EE architecture and development skills
- Basic cloud concepts

Programme

Introduction to cloud-native application development

- Developer roles in Bluemix
- Cloud-native application characteristics
- Course roadmap and positioning

Cloud adoption patterns

- Introduction
- Adoption process
- Application architecture
- DevOps
- Deployment
- Hybrid connectivity

The twelve-factor application

- The twelve factors
- Twelve-factor details

Developing applications for IBM Bluemix

- Introduction to WebSphere Liberty
- Liberty development environment and tooling
- State in cloud applications
- Improving performance in Bluemix with data caching
- Application scaling on IBM Bluemix

Developing applications by using microservices

- Introduction to microservices
- Application architecture evolution
- Microservices component architecture
- Microservices integration
- Refactoring to microservices
- Developing microservices

Data management

- IBM DB2 on Cloud
- PostgreSQL
- Cloudant
- Object storage
- Data transformation

Security

- Terminology
- Java Enterprise security model
- Application security enforced in code
- External authentication
- Bluemix single sign-on

Dates de session

Sur demande. Merci de nous contacter

Informations
Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.