

IBM Certified Application Developer - Cloud Platform V3

Course#:E-384
Duration:30 Days
Price:835.56

Course Description

An IBM Certified Application Developer - Cloud Platform v2 technical professional understands concepts essential to the development of Cloud applications. They will have experience creating applications on IBM Bluemix.

Certification Number:

Test C5050-384: IBM Cloud Platform Application Development v2

Objectives

After this course you will be able to:

- Cloud service models and IBM Cloud offerings
- Deploy and modify a boilerplate application in Node.js by using the Bluemix web interface
- Use the cf command line (Cloud Foundry) to deploy applications
- Modify your applications by using DevOps services and tooling
- The basics of containers, Docker files, and virtual machines, Open Whisks
- Implement cloud-ready applications -- how to design, manage, scale, debug, and monitor Bluemix applications
- How to manage applications with DevOps Services (agile planning, web code editor, source code management, and continuous integration and delivery)
- Understanding Cloud Foundry and Bluemix Architecture in details.
- Weigh architecture design alternatives in order to meet business goals, including scalability, availability, and cost effectiveness
- Integrating Bluemix Services (Mobile, Watson, Web Application, IOT, Twitter) with Bluemix Runtimes

Audience

No Audience

Prerequisites

Participants should have min.2+ years of experience in Application Development (not support)

Participant should have undergone complete project development life cycle (SDLC)

Fair knowledge on Cloud application will be advantage

Content

MODULE 1: Hosting Cloud Applications

Cloud computing

Describe the different capabilities of IBM Bluemix

Understand the capabilities of rapid application development and deployment using boilerplates and managed services

MODULE 2: Planning Cloud Applications

Describe key components of selected IBM Bluemix Cloud computing platforms (CloudFoundry, containers, event driven)

Configure and use runtimes of IBM Bluemix Cloud Foundry applications

Explain the process of deploying an application in IBM Bluemix Cloud Foundry

Describe the organization management elements in IBM Bluemix Cloud computing platforms : Orgs, Spaces, Users, Domains and Quota

Manage a Bluemix organization in a development and production environment

Understand IBM Bluemix Regions and how to manage applications in multiple regions

Use the IBM Bluemix command line tool (CLI) to manage applications on selected IBM Bluemix Cloud computing platforms

MODULE 3: Designing and develop Cloud Ready Applications

Understand how to design, develop, deploy and manage an IBM Bluemix application following the Twelve-Factor App methodology (<http://12factor.net/>)

Apply selected IBM Cloud Reference Architectures for Cloud native applications

Describe the advantages of serverless computing which can be considered when designing, deploying and managing Bluemix applications

MODULE 4: Services

Improve performance and scalability of IBM Bluemix applications with caching

Enable loosely coupled integration for IBM Bluemix applications and components by using Messaging Services

Describe cognitive capabilities to process unstructured data and images in IBM Bluemix

Configure file storage and retrieval for IBM Bluemix applications and components by using Object Storage Services

MODULE 5: Using Data Services

Understand how to configure external authentication using IBM Bluemix web applications with the Single Sign On service (SSO)

MODULE 6: Enhancing applications by using managed services

Configure an application to use SSL with a custom domain

Securely handling credentials for APIs and other application services

Understand capabilities to secure application data in IBM Cloud

MODULE 7: Using DevOps toolchain to develop and deliver cloud applications

Describe the capabilities of IBM Bluemix DevOps toolchain

Understand capabilities for source code management for IBM Bluemix Continuous Delivery toolchains

Develop and deploy cloud applications using IBM Bluemix Continuous Delivery and code editors

Describe how use Delivery Pipeline to manage continuous integration and continuous delivery

MODULE 8: Managing a running cloud application

Understand scaling concepts for a Cloud application and steps to scale an application in IBM Bluemix

Perform load testing on Cloud applications using simulated loads and describe the benefits of load testing

Explain various methods to monitor an application in IBM Bluemix

Debug a Cloud application running on IBM Bluemix