Enterprise Computing Solutions - Education Services

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Accelerate, Secure and Integrate with IBM DataPower V7.1

CODE:	DURÉE:	PRIX H.T.:
ZE711G	40 Hours	€1,500.00

Description

An updated version of this course is available. For more information, click *JWS and JWE Support in IBM DataPower V7.2* (ZE712G).
This course is also available as classroom course *Accelerate, Secure and Integrate with IBM DataPower V7.1* (WE711G).
This course teaches you the fundamental skills that are required to configure, implement, and troubleshoot services that are developed on the IBM DataPower Gateway (IDG) appliances with firmware version 7.1.x. The concepts in this course are also beneficial to system administrators of the DataPower appliance, although there is a separate course for administrators.
The DataPower Gateway Appliances allow an enterprise to simplify, accelerate, and enhance the security capabilities of its XML and web services deployments, and extend the capabilities of its service-oriented architecture (SOA) infrastructure. The appliances also extend these capabilities into the JSON, REST, and Mobile application areas.
Through a combination of instructor-led lectures and hands-on lab exercises, you learn how to implement the key use cases for the DataPower appliances. These include web service virtualization, web services security, integrating with IBM MQ, Mobile and REST support, integrating with OAuth 2.0, and authentication, authorization, and auditing (AAA). You also learn how to use various problem determination tools such as logs, monitors, and probes, and techniques for testing DataPower services and handling errors.
Hands-on exercises give you experience working directly with a DataPower Gateway appliance. The exercises focus on skills such as creating multi-protocol gateways and web service proxies, working with encryption and cryptographic objects, configuring service level monitoring, troubleshooting services, and handling errors.
For information about other related courses, visit the IBM Training website:
http://www.ibm.com/training
If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the **Self-Paced Virtual Classes and Web-Based Training Classes** on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course.
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Objectifs

- Describe how DataPower appliances are configured
- Create a web service proxy to virtualize web service applications
- Implement web services security
- Create and configure cryptographic objects
- Configure Secure Sockets Layer (SSL) to and from DataPower appliances
- Configure a multi-protocol gateway (MPGW) to handle multiple protocols from a single service
- Configure a service level monitoring (SLM) policy to control message traffic
- Configure support for IBM MQ
- Use logs and probes to troubleshoot services
- Configure the DataPower resources that are needed to support OAuth 2.0
- Use patterns to define and deploy new services
- Use DataPower resources and options to support REST and JSON-based services
- Configure message transformation and routing by using style sheets (XSL) and GatewayScripts
- Handle errors in service policies

Audience

This basic course is designed for integration developers who configure service policies on IBM DataPower Gateway appliances.

Prérequis

You should successfully complete *Technical Introduction to IBM WebSphere DataPower Gateway Appliances V7* (VW700G, no longer available) **or** *What's New in IBM DataPower Version 7.1* (VW710G). You should also be familiar with:

- Security-based concepts **and** protocols
- XML-related technologies such as XML schema, XPath, **and** XSLT
- JavaScript programming
- Web service fundamentals **and** the web services security specifications
- REST-based services

Programme

- Course introduction
- Quick introduction to developing on DataPower
- Exercise: First exposure to the DataPower developer environment
- Services overview
- Structure of a service
- Exercise: Creating a BookingService gateway
- Multi-protocol gateway service
- Problem determination tools
- Exercise: Enhancing the BookingService gateway
- Handling errors in a service policy
- Exercise: Adding error handling to a service policy
- DataPower cryptographic tools and SSL setup
- Exercise: Creating cryptographic objects and configuring SSL
- XML and web services security overview
- Exercise: Web service encryption and digital signatures
- Authentication, authorization, and auditing (AAA)
- Exercise: Web services authentication and authorization
- REST and JSON support for Web 2.0 and mobile applications
- Exercise: Using DataPower to implement REST services
- OAuth overview and DataPower implementation
- Exercise: Defining a three-legged OAuth scenario that uses DataPower services
- DataPower caching
- Exercise: Configuring a response cache
- Integrating with IBM MQ
- Exercise: Configuring a multi-protocol gateway service with IBM MQ
- Web service proxy service
- Exercise: Configuring a web service proxy
- Service level monitoring
- Exercise: Implementing a service level monitor in a web service proxy
- Patterns for service configuration
- Exercise: Using a DataPower pattern with the Blueprint console
- Course summary

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.