Overview:

This 3-day instructor-led course teaches students the skills and concepts needed to administer IBM WebSphere Enterprise Service Bus V7.0. As a key IBM enterprise service bus product, WebSphere Enterprise Service Bus provides a standards-based integration solution that enables users to create and deploy interactions quickly and easily between applications and services. This course has an administrative focus, and it begins by introducing students to the concept of the enterprise service bus (ESB) as an architectural pattern, as well as positioning the role of an ESB within a service-oriented architecture (SOA). Students learn about IBM's product support for the ESB pattern through a detailed discussion of the technical specifications for the WebSphere Enterprise Service Bus product. Students also learn how mediations are the central component in WebSphere Enterprise Service Bus through lectures that cover how mediations are implemented within the product. In addition, this course covers other administrative aspects of working with WebSphere Enterprise Service Bus, such as configuring security and monitoring resources. In the hands-on lab exercises, students learn how to install WebSphere Enterprise Service Bus as well as how to deploy, configure, and monitor mediations with tools such as the administrative console and the command line. Throughout the labs, students gain a basic understanding of mediation development by using WebSphere Integration Developer to explore and configure previously configured mediations. Additional labs enable students to configure security and use Business Space pages and widgets to monitor mediations that are deployed to WebSphere Enterprise Service Bus.

Target Audience:

This course is for IT professionals who function in administrative roles.

Objectives:

- Explain why an enterprise service bus (ESB) is an integral part of a service-oriented architecture (SOA)
- Explain the relationship between mediation primitives and mediation modules
- Define the enterprise service bus as an architectural pattern
- Use WebSphere Integration Developer to examine the structure of a mediation module
- List the capabilities of an enterprise service bus
- Deploy mediation modules using the WebSphere Enterprise Service Bus administrative console or a command-line interface
- Explain the relationship of WebSphere Enterprise Service Bus to the WebSphere family of products
- Configure advanced quality of service properties, such as security and server resources that are needed by mediation applications
- Describe the main architectural concepts that support WebSphere Enterprise Service Bus V7.0
- Configure and manage enterprise applications using WebSphere Enterprise Service Bus administrative tools
- Install and configure WebSphere Enterprise Service Bus V7.0
- Configure security for server-side application resources
- Describe the structure of a mediation module
- Configure a business space to monitor resources that are deployed by WebSphere Enterprise Service Bus
Prerequisites:

Students should have:

- Fundamental knowledge of service-oriented architecture (SOA)
- Knowledge of the role Web services play within an SOA
- Knowledge of Web service standards
- Experience with the administration of WebSphere Application Server V6.1 or higher
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