Impact 2012 Open Labs Catalog

Product Technology Center (San Polo 3401)

The open labs consist of a large selection of lab exercises that you can "drop in" to your Impact 2012 conference schedule whenever you like. Labs are self-paced, and cover many IBM Technologies at varying depths.

You can come in any time during the hours listed below, select a lab, and start working almost immediately. There are some situations in which we may have to limit the number of people doing a particular lab at the same time.

Monday 10:30am - 5:30 pm
Tuesday 9:00am - 5:00pm
Wednesday 9:00am - 5:00pm
Thursday 9:00am - 5:00pm
Friday 9:00am - 11:00am

OL01 SmartCloud: Business Process Management basics

In this exercise, you will use IBM Business Process Management tools and servers to understand how they make business processes more repeatable, adjustable, verifiable, auditable, and controllable.

This exercise is offered as a cloud asset through the IBM SmartCloud Enterprise, so that you can experience the level of service and ease of use that comes from cloud technologies.

OL02 SmartCloud: Develop Enterprise Mobile Apps using WebSphere Development Tools

In this lab you will use the visual mobile tooling available in the latest version of WebSphere Development Tools to develop a cross platform enterprise mobile web app. Open standards and techniques such as HTML5/CSS3, JavaScript and the Dojo Mobile framework are used in this lab. The app you develop can run on several popular enterprise mobile devices such as iPhone/iPad, Android and Blackberry.

Firsthand experience the power of developing Enterprise Mobile Web Apps in the IBM SmartCloud hosted environment.

OL03 SmartCloud: IBM Application Delivery Pattern

The IBM Application Delivery Pattern is a way to combine the carrying power of IBM Middleware and the acceleration and efficiency of IBM Cloud technologies. Together they turn information technology into business capabilities that can be deployed when needed. This is an interactive walk-through, hosted in the IBM SmartCloud, that will introduce you to the IBM Application Delivery Pattern concepts and value.

OL04 Create an SOA service using IBM® Rational® Application Developer
Use IBM® Rational® Application Developer for WebSphere® within IBM Rational
Software Architect to create a simple web service. With tools that generate the
standardized components and make testing them easy, you can apply standards
based techniques to your projects with minimal impact. The objective of this
exercise is to introduce you to some of those features in the Rational tools suite in
support of SOA.

OL05 Test SOA performance using IBM Rational® Tester for SOA Quality
Standards based software techniques like SOA have affects on every stage in the
product life cycle. In this exercise, you will be introduced to features in Rational
tools that make it easy to absorb the SOA point of view, while also increasing your
ability to maintain predictable quality. Rational Tester supports the recording of SOA
test cases as well as the creation and automated playback of test schedules. In this
exercise, you will complete the recording and execution of a sample test of a web
service and confirm the results.

OL06 Build a Web 2.0 iWidget and add it to a Mashup application
Using the WebSphere Application Server Feature Pack for Dynamic Scripting, you will
develop, test and run a simple Web 2.0 application to track energy usage. First, you
will create an iWidget to prompt end-users to answer a series of questions regarding
their daily energy usage. You will integrate it with a pre-built application in IBM
Mashup Center to assemble a solution that provides appropriate energy-saving
recommendations tailored for each end-user.

OL07 Business Agility with WebSphere® Operational Decision Manager
Using the comprehensive set of Business Process Optimization, Business Rules, and
Business Events features in WebSphere Operational Decision Manager, you can build
a business run smoothly on an evolving process model, with the ability to apply
policies across the business, but still sensitive to conditions that may arise any day.

OL08 Managed File Transfer using WebSphere MQ File Transfer Edition
Use IBM WebSphere MQ File Transfer Edition Version to configure and automate file
transfers across a world class messaging backbone.

OL09 IBM® WebSphere® Transformation Extender Version Design Tools
IBM WebSphere Transformation Extender provides an Eclipse based studio for
defining and managing transformations for SOA. This lab will give you the
opportunity to take the WebSphere Transformation Extender Design Studio for a test
drive. You will learn how to build Type Trees and develop, debug and run Maps.

**OL10 Build SOA applications with lightweight WebSphere Application
Server Community Edition**
You will leverage Eclipse Galileo to setup, deploy, and test a Web services
application against WAS CE. In addition, you will also explore the capabilities of the

Eclipse Web services tool for generating Web services, as well as embedded tooling in WAS CE that aids in creating WSDL files and source.

OL11 Model and analyze an SOA IT architecture using Rational System Architect
In this exercise, you will use the analyst tools included in Rational System Architect Version 11.3 to highlight and reveal important facts about the relationships between systems in a sample architecture to formulate plans for system changes.

OL12 Virtualizing your Application Server Infrastructure with WebSphere Virtual Enterprise
You will learn how WebSphere Virtual Enterprise V6.1 can virtualize your Application Server infrastructure to enable smooth deployment and management of applications. Through the use of simple interfaces highlighted in this exercise, you will manage the upgrade of an application while under continuous load.

OL13 WebSphere Message Broker HealthCare Content Pack HL7
WebSphere Message Broker is IBM's Advanced Enterprise Service Bus technology, and is the platform for integration of standards based information systems and less well behaved infrastructure. Experiment with prepackaged, but customizable transactions and conversions that will allow you to integrate HL7 based systems with other information systems.

OL14 Use Cognos Business Intelligence to understand and use business performance data
In this exercise, you will use Cognos Business Intelligence Query and Report studio tools to create reports and show results for use within your organization.

OL15 Cognos Express: Achieve cutting edge business intelligence with high agility and low cost.
This exercise will allow you to assess the reporting, analysis, and planning capabilities of Cognos Express, the first integrated, one-stop, BI and planning solution purpose built for mid-size companies.

OL16 Service Component Architecture: High productivity & agility through SCA and SOA using Rational Application Developer.
You will build an SCA assembly in Rational Application Developer, then deploy and test it in WebSphere Application Server.

OL17 Explore WebSphere applications at a deeper level with WebSphere Application Server for Developers
You will profile and debug a sample web application, so you can see the capabilities of the WebSphere tools to support web application developers.

OL18 WebSphere Extreme Scale: Don't let your customers shopping cart go empty. Failure resistant, high performance, persistent http session data!

Using WebSphere Extreme Scale administrative interfaces, you will introduce and observe the effect of a server outage. By enabling the session replication capabilities in WebSphere Extreme Scale, you will see how it negates the effect of the outage on the customer experience

OL19 Learn how to Monitor and Manage virtual servers using Tivoli Monitoring for Virtual Server

Learn basic, real-time monitoring capabilities using the Tivoli Enterprise Portal interface to navigate, drill-down and customize a demonstration version of the Tivoli Monitoring for Virtual Servers (ITMVS) monitoring agents for virtual servers.

OL20 Rational Software Architect: Model and specify your SOA Architecture

Using Rational Software Architect, you will see how SOA Architectural models can be built, maintained, and used to ensure the quality and agility of your SOA solutions.

OL21 WebSphere MQ: Open Lab

IBM WebSphere® MQ (WMQ) is all about anywhere to anywhere integration, from the simplest pair of applications requiring basic connectivity and data exchange to the most complex business process management environments. This lab provides a hands-on introduction to some of the key API and capabilities provided by WMQ. The step-by-step instructions lead you through several scenarios which you can choose from. Each scenario includes the required configuration and setup steps, sample code modifications and final execution. Topics covered include JMS (Java), MQI (C), publish/subscribe and point-to-point asynchronous messaging. No prior knowledge of WMQ is assumed but some familiarity of basic programming concepts would be an advantage.

OL22 IBM BPM 7.5.1 - BPM in Action!

In this hands-on "Tutorial Demo Series" you will see BPM in action.
Whether you are a casual observer or detail-oriented learner,
this collection of live-recorded demos and step-by-step hands-on exercises
will enable you to experience BPM end-to-end.
You can Watch-it, Drive-it or both:
- The exact hands-on exercise is viewable as a narrated video.
- The hands-on environment lets you drive, step-by-step.
You will experience the following:
- Model and run business processes in a visual code-free environment
- Participate and dashboard BPM using a user-friendly web experience
- Change, analyze and optimize processes using a seamless graphical environment
In summary:
The IBM BPM 7.5.1 Sandbox Exercise enables you to model, run, manage, analyze, optimize and change business processes in a very rapid, easy and agile fashion.

OL23 Wrap existing COBOL programs as Web Services with IBM Rational Developer for System z
Learn how IBM® Rational® Developer for System z can help speed efficiency of traditional mainframe, web development and composite applications. You will explore how to reuse and integrate core application assets with Web services and modern user interfaces.

OL24 Core Banking Transformation with Rational Developer for System z and Rational Team Concert for System z
You will use RTCz and RDz to modify an application to use the local currency symbol appropriate to anyplace that JK Enterprise Bank runs its business.

OL25 Access existing CICS/VSAM using an iPhone
This tutorial will show you how you can use IBM Rational products to easily and efficiently create a Web 2.0 application that reuses an existing z/OS application.

OL26 Transform 5250 Green Screens into Web Applications by Using IBM Rational Host Access Transformation Services for Multiplatforms
This tutorial demonstrates how to use IBM® Rational® Host Access Transformation Services (HATS) to create a Web application that exposes an IBM® Power Systems™ 5250.

OL27 Introduction to Rational Developer for Power Systems
This exercise shows how to edit, compile, debug and test a sample IBM i application. It also shows how to use the RD Power Application Diagram Viewer, Screen designer, and Report Designer.

OL28 Mashup Center: Increase your ROI from Informix-powered retail solutions
This exercise will show you how to use IBM Mashup Center to increase your return on investment from Informix solutions. You will use a few out-of-the-box business ready Web 2.0 widgets to extract business data from Informix to enable well-informed business decisions.

OL29 Mashup Center: Deliver insight from IBM InfoSphere Warehouse
This exercise will show you how to use IBM Mashup Center to leverage data in IBM Data Warehouse to enable access to operational business data. You will use a few out-of-the-box business ready Web 2.0 widgets to extract and display business data from IBM Data Warehouse.

OL30 DB2 Pure XML and Optim Studio: Build and Execute pure XML queries against data in IBM DB2 databases.
This exercise will show you the depth and breadth of IBM DB2 support for XML based queries and operations. You will also be introduced to the IBM DB2 Optim

Studio tools for agile development and maintenance of XML based and other queries.

OL31 WebSphere DataPower XC10 Appliance

This hands-on lab will provide a series of exercises used to configure DataPower XI50 Integration Appliance to use a WebSphere DataPower XC10 as a side cache. Using a simple web service sample to simulate a product look-up, the students will create a Multi-Protocol gateway service on the XI50 configured to do a side cache operation on the XC10 via REST api's. Once configured, the student will perform several product look-ups to demonstrate the significant performance improvement between cache misses and cache hits. Finally, using the XC10 monitor, the student will examine the cache for hit rate, throughput, and cache utilization.

OL32 WebSphere DataPower SOA Appliance Hands-On Lab

This hands-on lab will provide a series of exercises to configure DataPower services to handle XML documents and proxy Web Services. In the first section, students will create a simple loopback XML Firewall service that proxies XML requests, and then a Multi-Protocol gateway service to do an XML transformation on the input document, and create a dynamic routing policy based on the actual SOAP message content. The Web Service Proxy lab illustrates the highly optimized proxy for Web services communications and offers easy configuration using a WSDL, the use of multi-step policies, as well as service level monitoring, filtering, security, custom error handling, and WSDL handling.

OL33 Learn how to Trade AS2 with the DataPower B2B Appliance XB62

EDIINT AS2 is the most predominately used B2B messaging protocol in use today for securely transporting important and sensitive data over the Internet. This hands-on lab provides students the opportunity to learn how easy it is to configure the XB62 to support trading partner management, B2B security and EDIINT messaging. Come to the Product Technology Center and learn how the DataPower B2B Appliance can move your B2B security and governance to the edge of the network, allowing the termination and rejection of unwanted connections before allowing data to pass into the secured network.

OL34 Accelerating Application Delivery with Liberty Profile

With the explosion of Mobile and Cloud; developers face unique challenges to deliver applications more rapidly, while ensuring a higher level of security than what was expected in the past. Take this interactive lab and learn how IBM WebSphere is reshaping application delivery for Web, Mobile and Cloud with the Liberty Profile.

OL35 WebSphere Message Broker 8.0 the Engine for Integration

This exercise environment contains a rich set of tutorials covering many up-to-date features of WebSphere Message Broker, as well as basic usage scenarios.