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BPEL; Installing and configuring BPEL Process Manager; Step 1 - install Oracle JDeveloper; Installing SOA extensions; Step 2 - download and install Oracle Database; Step 3 - install Oracle SOA Suite; Creating an SOA Suite domain; Creating sample BPEL business processes; Deploying BPEL business processes
Testing and managing BPEL business process instances
Summary;
Chapter 2: Configuring BPEL Processes; Understanding the BPEL language framework; BPEL activities; Creating basic activities in BPEL; Activities; Basic activities; Structured activities; Fault and error handling; Synchronous versus asynchronous processes; Selecting the timeout value for synchronous processes; BPEL correlation; Creating a Correlation set; Associating the correlation set; Creating property aliases; Adapters; Database Adapter; File Adapter; JMS Adapter; Web Service Adapter
Implementing human workflow with Human Task components
Summary;
Chapter 3: Invoking a BPEL Process; Communicating between BPEL to/from Java; Invoking a BPEL process from Java; Invoking a service from a BPEL process; Partner Link; Writing Java code within BPEL activities; Invoking Java from BPEL; Configuring BPEL timeouts; Setting the JTA Transaction Timeout aka Global Transaction Timeout parameters; Changing SyncMaxWaitTime parameter; Transaction settings; BPEL EJB's transaction timeout; Timeout for Asynchronous BPELs; Summary; Chapter 4: Orchestrating BPEL Services; Orchestration Designing orchestrationFlow; Switch; Custom XPath functions; Creating custom XPath functions; Custom XPath function class; Register with SOA Suite; Registering with JDeveloper; Scope; BPEL variables; Human Task; Worklist Application; Creating human tasks; Standalone human task - expose as a service; Human task - part of a BPEL process; Business Rules engine; Adding business rules as part of a BPEL process; Creating business rules; Facts and Bucketsets; Summary; Chapter 5: Test and Troubleshoot SOA Composites; Testing SOA composites from the EM; Testing composite from JDeveloper
View instances and messages on JDeveloper
Creating a test suite; Initiating the Test; Emulating inbound messages; Emulating outbound messages; The Dehydration Store; Options for purging the Dehydration Store; Troubleshooting; BPEL Process Manager logging; Domain logs; Access.log; Admin/managed server log; Logging level; Audit level; Monitoring; The MBean browser; Summary; Chapter 6: Architect and Design Services Using BPEL; Services architecture and design guidelines; Services-based application design; SOA Suite; Enterprise Service Bus (ESB); Use case of the service bus
Interaction design patterns

Sommario/riassunto

This hands-on, example-driven guide is a practical getting started tutorial with plenty of step-by-step instructions for beginner to intermediate level readers working with BPEL PM in Oracle SOA Suite
Written for SOA developers, administrators, architects, and engineers who want to get started with Oracle BPEL PM 11g. No previous experience with BPEL PM is required, but an understanding of SOA and web services is assumed
