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Oracle SOA Suite 12c Handbook

Design and Deploy an Enterprisewide
Service-Oriented Architecture

Lucas Jellema

Oracle ACE Director

Foreword by Inderjeet Singh
Executive Vice President, Oracle Fusion Middleware



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Oracle SOA Suite 12c Handbook Lucas Jellema, 2015-09-01 Master Oracle SOA Suite 12c Design implement manage and maintain a highly flexible service oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide Written by an Oracle ACE director Oracle SOA Suite 12c Handbook uses a start to finish case study to illustrate each concept and technique Learn expert techniques for designing and implementing components assembling composite applications integrating Java handling complex business logic and maximizing code reuse Runtime administration governance and security are covered in this practical resource Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP XML REST JSON through Oracle Service Bus Establish interactions through adapters for Database JMS File FTP UMS LDAP and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network EDN Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL BPMN and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic audit system activity and encrypt sensitive data

Oracle SOA Suite 11g Handbook Lucas Jellema, 2010-09-22 Master Oracle SOA Suite 11g Design and implement an agile service oriented enterprise computing infrastructure using the detailed information in this Oracle Press guide Written by an Oracle ACE director Oracle SOA Suite 11g Handbook uses a hands on case study to illustrate each programming management and governance concept Get expert techniques for modeling and implementing complex business processes and deploying and securing Web services while maximizing decoupling and code reuse Install Oracle SOA Suite 11g or migrate from a previous version Design and develop composite applications using SCA and SDO Model processes using BPEL BPMN and human task components Connect components through mapping and filtering with Oracle Mediator Apply the principles of event driven architecture through complex event processing the event delivery network and Oracle Business Activity Monitoring server Benefit from the power of Java through the Spring component and the interaction with Oracle Validate enrich transform route and operate on data using the Oracle Service Bus Deploy test and manage composite applications from the Oracle Enterprise Manager control console

Oracle Soa Suite 11G Hb Jellema, 2010-09-18 Oracle SOA Suite 11g Handbook describes how Oracle SOA Suite 11g can be used to successfully implement a Service Oriented Architecture SOA in an enterprise The book covers all the components of the suite and provides a complete introduction for all Oracle developers and administrators This is a one stop solution to get up and running for novice and experienced professionals alike The book combines an easy hands on case based introduction with a rigorous structured discussion of concepts and key features This Oracle Press guide starts with an introduction explaining SOA Oracle SOA Suite 11g and the case study used throughout the book a fictitious hospital This is followed by a hands on introduction to development administration and

governance Advanced concepts are discussed in the last part of the book Information about standards XML XSD Xpath SOAP WSDL WS AIA and migration from Oracle SOA Suite 10g is also included

Design Principles for Process-driven Architectures Using Oracle BPM and SOA Suite 12c Matjaz B. Juric, Sven Bernhardt, Hajo Normann, Danilo Schmiedel, Guido Schmutz, Mark Simpson, Torsten Winterberg, 2015-06-29 This book is a design handbook and provides skills to successfully design implement and optimize business processes on top of SOA Starting with business process modeling it shows design principles to architect sound process architectures It presents best practices for modeling business processes using BPMN together with design principles for services and composite applications It provides detailed coverage of how to prepare business processes for execution An in depth explanation of human interactions is given and also principles and best practices for using rules Moving on Adaptive Case Management principles are explained along with the reach of business processes to mobile devices and ensuring multichannel interactions Business activity monitoring event driven architectures complex event processing in relation to business processes and enabling integration with events and IoT devices are explained The design principles and best practices are demonstrated in a practical way on a rental car use case

Working with Oracle GoldenGate 12c Gavin Powell, 2019-01-25 This book teaches the basics of Oracle GoldenGate which is a product that is used to simplify the process of Oracle Database Replication GoldenGate can be used for reporting failover high availability live reporting data warehousing and BigData ETL process as well as connecting to multiple other data sources outside of Oracle Database such as SQL Server MySQL Teradata PostgreSQL and many others The purpose of GoldenGate and its popularity is its ability to make the highly complex architecture of database replication into a much more simplistic task This book teaches the reader how to use Oracle GoldenGate from installation to troubleshooting

Oracle SOA Suite 12c Administrator's Guide Arun Pareek, Harold Dost, Ahmed Aboulmaga, 2015-11-27 A guide to everything an Oracle SOA Suite 12c administrator needs to hit the ground running About This Book Understand core administrative tasks such as deployments purging startup and shutdown configuration and backup and recovery Manage monitor and troubleshoot SOA composites and OSB services Follow step by step instructions to easily and quickly install a highly available two node cluster Who This Book Is For With topic areas ranging from the simple to the complex this book is intended for novice mid level and experienced administrators of the Oracle SOA Suite 12c platform as well as Oracle WebLogic Server and Oracle Database administrators interested in diving into the product What You Will Learn Navigate Oracle Enterprise Manager Fusion Middleware Control Monitor and manage the Oracle SOA Suite 12 c infrastructure Deploy and promote code Monitor and manage services Configure and administer the environment Manage the dehydration store and enterprise scheduler service Troubleshoot Oracle SOA Suite 12c infrastructure Set up backups recovery and high availability In Detail Oracle SOA Suite 12 c is the most comprehensive and integrated infrastructure on the market today that is used for building applications based on service oriented architecture With the vast number of features and capabilities that Oracle SOA Suite

12c has to offer comes numerous complexities and challenges for administration Oracle SOA Suite 12c Administrator's Guide covers all the core areas of administration needed for you to effectively manage and monitor the Oracle SOA Suite environment and its transactions from deployments to monitoring to performance tuning and much much more Manage monitor and troubleshoot SOA composites and OSB services from a single product set Understand core administrative activities such as deployments purging startup and shutdown configuration backup and recovery Also learn about new features such as Oracle Enterprise Scheduler lazy loading work manager groups high availability and more Style and approach Presented in a reference guide format where chapters can be read in any sequence this book explains the core concepts while providing real world implementation specifics detailing the what why and how of all the administration related activities that involve Oracle SOA Suite 12c We take a step by step approach and offers tips instructions and examples that you can easily follow and execute *WS-BPEL 2.0 Beginner's Guide* Matjaz B. Juric, Denis

Weerasiri, 2014-09-22 If you are a software architect a designer a software developer an SOA and BPM architect a project manager or a business process analyst who is responsible for the design and development of business processes composite applications and BPM SOA solutions then this book is for you You should have a clear grasp of general SOA concepts including business processes and web services but no prior knowledge of the BPEL language is required *Oracle E-Business Suite Development & Extensibility Handbook* Anil Passi, Vladimir Ajvaz, 2009-10-06 Extend and Customize Oracle E Business Suite Transform your Oracle E Business Suite infrastructure to suit enterprise requirements using the comprehensive development methods in this Oracle Press guide Oracle E Business Suite Development Extensibility Handbook lays out each tool alongside reusable code and step by step examples Learn how to create multiorg objects integrate Java and PL SQL design custom user interfaces and use Oracle Application Framework and Oracle Workflow This detailed volume also explains how to work with Oracle XML Gateway publish dynamic business intelligence reports and tune your configuration Manage an efficient development platform with Oracle Application Object Library Develop concurrent programs customized forms and personalized graphical user interfaces Securely share data between organizations Distribute business communiqu s through Oracle Reports and Oracle Business Intelligence Publisher Develop Java extensions with Oracle JDeveloper and Oracle Application Framework Capture and graphically map business processes using Oracle Workflow Exchange data between applications via Oracle XML Gateway Change the appearance of applications using Custom Look and Feel Integrate Oracle E Business Suite with service oriented architecture using Oracle Applications Adapter On Demand *Oracle Soa Suite 11G Administrator's Handbook* Ahmed Aboulmaga, Arun Pareek, 2012-08-24 The book explains core concepts while providing real world implementation specifics detailing the administration related activities with Oracle SOA Suite 11g with a step by step approach using real world examples The authors demonstrate the use of WLST scripts that administrators can reuse and extend to perform most administration tasks such as deployments

tuning migration and installation If you are an Oracle SOA Suite administrator WebLogic Server administrator Database administrator or developer that needs to administer and secure your Oracle SOA Suite services and applications then this book is for you Basic knowledge of Oracle SOA Suite Administration is beneficial but not necessary **Oracle SOA Suite 11g R1 Developer's Guide** Antony Reynolds,Matt Wright,2010-07-01 Develop Service Oriented Architecture Solutions with the Oracle SOA Suite with this book and eBook **Oracle Service Bus 11g Development Cookbook** Guido Schmutz,Edwin Biemond,2012-01-24 This cookbook is full of immediately useable recipes showing you how to develop service and message oriented integration applications on the Oracle Service Bus In addition to its cookbook style which ensures the solutions are presented in a clear step by step manner the explanations go into great detail which makes it good learning material for everyone who has experience in OSB and wants to improve Most of the recipes are designed in such a way that each recipe is presented as a separate standalone entity and reading of prior recipes is not required The finished solution of each recipe is also made available electronically If you are an intermediate SOA developer who is using Oracle Service Bus to develop service and message orientated applications on the Oracle Service Bus then this book is for you This book assumes that you have a working knowledge of fundamental SOA concepts and Oracle Service Bus **Oracle SOA Infrastructure Implementation Certification Handbook (1Z0-451)** Kathiravan Udayakumar,2012 This book is packed with real word examples Each major certification topic is covered in a separate chapter which helps to make understanding of concepts easier At the end of each chapter you will find a variety of practice questions to strengthen and test your learning You will get a feel for the actual SOA Foundation Practitioner exam by solving practice papers modeled on it This book is for SOA architects technical consultants application developers and analysts who want to successfully clear the 1Z0 451 Oracle SOA Foundation Practitioner exam to attain the Oracle SOA Infrastructure Implementation Certification **WS-BPEL 2.0 for SOA Composite Applications with Oracle SOA Suite 11g** Matjaz B. Juric,2010-09-06 Define model implement and monitor real world BPEL business processes with SOA powered BPM for Oracle SOA Suite with this book and eBook

Oracle Database 12c DBA Handbook Bob Bryla,2015-07-03 The definitive reference for every Oracle DBA completely updated for Oracle Database 12c Oracle Database 12c DBA Handbook is the quintessential tool for the DBA with an emphasis on the big picture enabling administrators to achieve effective and efficient database management Fully revised to cover every new feature and utility this Oracle Press guide shows how to harness cloud capability perform a new installation upgrade from previous versions configure hardware and software handle backup and recovery and provide failover capability The newly revised material features high level and practical content on cloud integration storage management performance tuning information management and the latest on a completely revised security program Shows how to administer a scalable flexible Oracle enterprise database Includes new chapters on cloud integration new security capabilities and other cutting edge features All code and examples available online **Oracle WebLogic Server 12c Administration Handbook** Sam R.

Alapati,2014-05-16 Best Practices for Oracle WebLogic Server 12c Configuration and Administration Maintain a high performance enterprise application framework using the detailed information in this authoritative resource Through expert instruction and real world examples Oracle WebLogic Server 12c Administration Handbook fully explains the latest management tools and techniques Learn how to work from the Oracle WebLogic Server Administration Console or command line configure servers and clusters deploy applications and optimize application performance Tuning troubleshooting and load balancing are thoroughly covered in this Oracle Press guide Install Oracle WebLogic Server 12c or perform an upgrade Manage domains server instances networks and virtual hosts Work with the WebLogic Scripting Tool feature and Node Manager Build custom network channels and resource adapters Monitor performance with the WebLogic Diagnostics Framework feature Prioritize requests using Oracle WebLogic Server Work Managers Configure Oracle WebLogic clusters and migrate servers and services Deploy web applications Enterprise JavaBeans and Java EE modules Establish security realms and authenticate and authorize users Allocate memory optimize throughput and tune the Java Virtual Machine

Oracle Exalogic Elastic Cloud Handbook Tom Plunkett,TJ Palazzolo,Tejas Joshi,2012-09-05 Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide Oracle Exalogic Elastic Cloud Handbook shows you how to plan implement and maintain a private cloud Find out how to set up components deploy Java applications maximize redundancy and throughput and migrate legacy workloads Examples screenshots and diagrams are included throughout this comprehensive resource Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build debug and manage custom Java applications Secure monitor and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion Middleware Consolidate Oracle and third party application workloads **Oracle SOA Governance 11g**

Implementation Luis Augusto Weir,Andrew Bell,2013-09-18 The book uses a concise and practical approach to take you through all the steps necessary to create run and analyze your own Network Simulations This book is ideal for anyone wishing to quickly get to grips with Network Simulation whether you re an expert in networks or just a beginner It is perfect for all network engineers and administrators who wish to emulate networks using OMNet as a preparation for building the actual network

Oracle Collaboration Suite Handbook Ronald J. Zapar,2007-03-13 Maximize the Capabilities of Oracle Collaboration Suite Facilitate enterprisewide communication data sharing and team work using Oracle Collaboration Suite 10g and the in depth information contained in this Oracle Press guide Oracle Collaboration Suite Handbook explains how to install implement manage and optimize the suite in an enterprise environment You ll discover how you can use this powerful tool to securely reliably and cost effectively enable real time collaboration streamline business processes simplify data distribution and consolidate corporate information Tailor a system specific Oracle Collaboration Suite environment Install the

Infrastructure Tier Datastore Tier and Applications Tier Perform successful migrations to Oracle Collaboration Suite 10g Create manage monitor and delete user accounts with provisioning Control processes components and subcomponents from the command line and the Enterprise Manager Browser interface Perform reliable full and partial database backups and restores Monitor analyze and act on system log files Administer applications application components and program functionality Manipulate unstructured data using intelligent containers and Oracle Content Services

Oracle Database 12c Db Handbook Todd Woolston, 2017-06-08 Maintain a high performance Oracle Database using the best practices and expert techniques in this Oracle Press guide Oracle Database 12c DBA Handbook is thoroughly updated to cover the new features and utilities including the multitenant architecture Oracle Database In Memory option and cloud enhancements Real world examples for every major configuration are included You ll learn how to successfully manage a highly available robust secure and extensible Oracle enterprise database environment

Oracle Database 12c Bob Bryla, Kevin Loney, 2014 Maintain a scalable highly available enterprise platform and reduce complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries design applications and secure your enterprise data Oracle Database 12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions

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