ORACLE SOA SUITE 11G PERFORMANCE TUNING COOKBOOK BY MATT BRASIER, NICHOLAS WRIGHT

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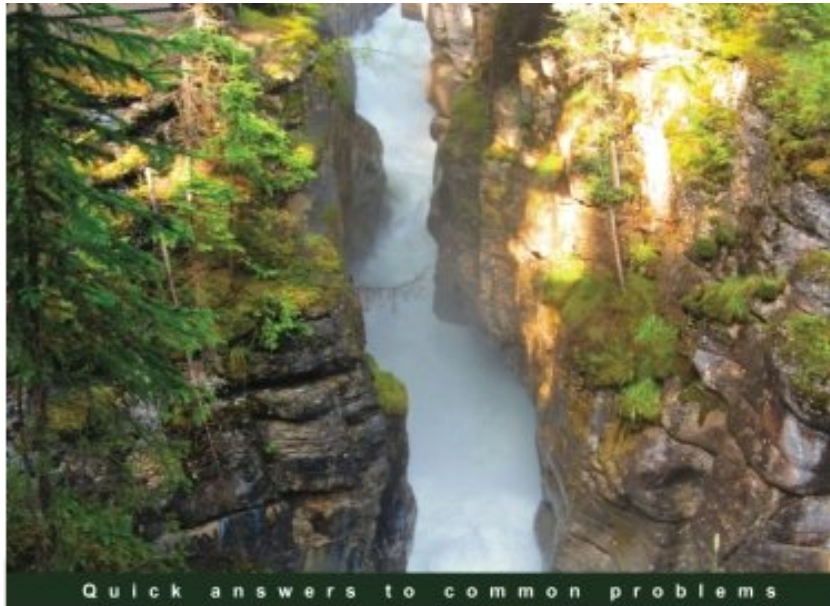
Oracle SOA Suite 11*g* Performance Tuning Cookbook

Over 100 recipes to get the best performance from your
Oracle SOA Suite 11*g* infrastructure

Matt Brasier   Nicholas Wright   [PACKT] enterprise
PUBLISHING

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About the Author

Matt Brasier

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Featuring over 100 recipes, this handy cookbook will walk you through the different ways to optimize the performance of the Oracle SOA Suite 11g. Essential reading for administrators, developers, and architects.

Overview

- Tune the Java Virtual Machine to get the best out of the underlying platform
- Learn how to monitor and profile your Oracle SOA Suite applications
- Discover how to design and deploy your application for high-performance scenarios
- Identify and resolve performance bottlenecks in your Oracle SOA Suite infrastructure

In Detail

Oracle SOA Suite 11g forms the heart of many organisations' Service Oriented Architecture. Yet for such a core component, simple information on how to tune and configure SOA Suite and its infrastructure is hard to find. Because Oracle SOA Suite 11g builds on top of a variety of infrastructure components, up until now there has been no one single complete reference that brings together all the best practices for tuning the whole SOA stack.

Oracle SOA Suite 11g Performance Cookbook contains plenty of tips and tricks to help you get the best performance from your SOA Suite infrastructure. From monitoring your environment so you know where bottlenecks are, to tuning the Java Virtual Machine, WebLogic Application Server, and BPEL and BPMN mediator engines, this book will give you the techniques you need in a easy to follow step-by-step guide.

Starting with how to identify problems, and building on that with sections on monitoring, testing, and tuning, the recipes in this book will take you through many of the options available for performance tuning your application.

There are many considerations to make when trying to get the best performance out of the Oracle SOA Suite platform. This performance Cookbook will teach you the whole process of tuning JVM garbage collection and memory, tuning BPEL and BPMN persistence settings, and tuning the application server. This book focuses on bringing together tips on how to identify the key bottlenecks in the whole SOA Suite infrastructure, and how to alleviate them.

The Oracle SOA Suite 11g Performance Cookbook will ensure that you have the tools and techniques to get the most out of your infrastructure, delivering reliable, fast, and scalable services to your enterprise.

What you will learn from this book

- Monitor your SOA Suite environment
- Configure the memory available to the Java Virtual Machine

- Tune the Java garbage collector
- Configure a WebLogic server to handle large loads
- Tune BPEL, BPMN, and Mediator engines
- Performance test your application
- Design your SOA Suite components for maximum performance
- Configure a cluster of SOA Suite servers
- Tune the operating system and virtualization layers for SOA Suite

Approach

This is a Cookbook with interesting, hands-on recipes, giving detailed descriptions and lots of practical walkthroughs for boosting the performance of your Oracle SOA Suite.

Who this book is written for

This book is for Oracle SOA Suite 11g administrators, developers, and architects who want to understand how they can maximise the performance of their SOA Suite infrastructure. The recipes contain easy to follow step-by-step instructions and include many helpful and practical tips. It is suitable for anyone with basic operating system and application server administration experience.

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- 328 pages

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Most helpful customer reviews

2 of 2 people found the following review helpful.
Great book what can really help you
By Edwin Biemond
I really liked this book it is very complete with chapters about sizing your machines, discussing virtualization, JVM tuning (hotspot and JRocket), SOA Suite tuning, the soa infra database, adapters plus design guidelines for your composites. This book has all the answers/checks to identify your problem or build a great SOA Suite solution.
this book of Matt and Nicholas is an impressive achievement and I think they did a lot of research to find the right tuning parameters.

Personally I would change the chapters and help the administrator or developer in the process from nothing to performant SOA Suite server or from a performance problem to a solution. (the most likely problem first and then to the less likely).
For me was the JVM tuning was too much, especially JRocket this is replaced a time ago by Java 7 SE suite (I think you are licensed to use this), For JVM tuning I just look to the GC when this is once in the 5 minutes I am satisfied and move on to the server, database and BPEL invoker plus dispatchers threads.

I found it a bit strange that they keep on changing the domain scripts for JVM tuning and after a many pages, there is a same paragraph that say you should do it in the WebLogic console and start the managed servers with a NodeManager. Probably this is the most easy way for a cookbook and not having to explain NodeManagers etc. But this is bad practice because every server will have the same memory parameters even the WebLogic Admin server, with clusters you have to change this on every machine plus patching can undo your changes. The JMS bridge part was a bit strange for me, I would only use a bridge with a old WebLogic container or with for example with JBoss and maybe use a Foreign JMS server instead but for other situations I always use SAF, it is the best, very reliable (the best) but indeed harder to configure.
What I missed was a chapter about a server Lan and WebLogic channels, the position of the AdminServer on which machine or the combination with OSB and overloading the BPEL engine cause of a async heavy load, I see this at many customer that after some hours of heavy load everything fails (invoker continues) and which leads to many (recoverable) entries in the error hospital or many nights of BPEL autorecovery. Too many invoker threads floods the SOA Suite BPEL engine and the only way what works is doing more in memory (BPEL), less in database and for example add a parameter on the JMS adapter which reads a message every x seconds.

but I know I will use and recommend this book to my customers and off course will try out these tuning parameters.

0 of 0 people found the following review helpful.
Interesting read with a lot of good suggestions
By Maarten Smeets
I liked this book. I have learned some new things I can use at customers. This book also does not repeat the manuals and other books much which also makes it interesting. It is the first book I have seen with focus completely on performance and tuning of Oracle SOA Suite 11g. Not only does the book contain the usual performance tips and several new ones but it also provides some suggestions for tuning in a virtualized environment (including a suggestion on how to measure cloud performance) and hardware.

I am no fan of the recipe format and would have grouped some things differently to describe a more bottom up or top down approach to tuning a SOA Suite installation. Especially JVM tuning gets a lot of attention. It is clear the authors know what they write about. Also the writing style makes this book an easy and enjoyable read. I did not get bored.

I missed a bit tuning of the OSB. Maybe some BPEL programming practices or patterns which help improving performance. What I also missed was tuning from a high level down to a single BPEL process; how to bridge the gap from JVM measures to BPEL process instances. There is not much focus on dehydration store maintenance which can also be an important factor in improving performance. Clustering issues are barely touched.

On the whole this was an interesting read with a lot of useful suggestions.

I've put a more thorough review on http://javaoraclesoa.blogspot.nl/2013/08/book-review-oracle-soa-suite-11g.html

0 of 0 people found the following review helpful.
Good book with interesting recipes
By Georgie
This book covers almost all aspects of the performance tuning starting from the weblogic server to different SOA components. The highlight being detailed steps on different options available to analyze and troubleshoot the issues.
The modularization of the book is really good. The book starts with the soa infrastructure, listing the different options of monitoring the JVM's, SOA suite and different components like bpel, rules, mediator which are actually really good. BPEL and BPMN tuning tips are already available as part of the performance guides/blogs ,but the authors have captured that as well in this book, which is good in one way so as it helps to bring all the performance tuning options together. Monitoring SOA suite, JVM Garbage collections, Platform tuning are very well covered in the book. It was good to learn we could leverage multiple available options mentioned in the book to monitor/troubleshoot different JVM/server issues.

The book also covers the tuning aspects from process perspective as well as at environment level with equal importance. I recommend this book as a must read for SOA server Administrators as well as SOA Consultants, this book will help you to get most out of the SOA infrastructure. The book will make an interesting read for those people who love to take it the next level.

See all 3 customer reviews...

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