



Oracle 10g RAC Grid, Services and Clustering

By Murali Vallath

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Grid architecture is Oracle's strategy for high-end computing and RAC is the stepping stone into this arena. This book focuses on current technology including all valid RAC features up through Oracle Database 10g Release 2, with a primary focus on deploying it in a high-end grid environment. The book discusses this technology at length which users will find beneficial when researching, implementing or monitoring a RAC environment. The author covers workshop implementation of services and the distribution of workload across instances, with threshold definitions and the new load balancing algorithms. In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy. The book also includes discussions on new Oracle Clusterware, its components and its integration with RAC.

Oracle 10g RAC focuses on RAC-specific topics including ASM, operating system configuration, installation and configuration of RAC and much more. Coverage includes network configuration for high availability, FAN, TAF, ONS, implementation of maximum availability architecture (MAA), EM Grid Control, AWR, ADDM and other performance-related tools. The author includes several scripts for performance tuning and implementation that the reader can use to configure a RAC environment either on a 2, 4, 8, 60 or 99 node configuration.

- Focuses on implementing, testing and tuning features of Real Application Clusters (RAC) database version 10g Release 2
- Provides extensive coverage of usage, day-to-day functions and operations
- Includes tips and techniques such as script samples to illustrate various features of RAC
- A jumpstart into all the key features of 10g R2 RAC

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Editorial Review

From the Back Cover

Oracle 10g RAC

Grid, Services & Clustering

Murali Vallath

“Oracle RAC and grid technology is transforming the economics of high-end database computing and is a technology that all Oracle professionals should become familiar with. Murali is one of the world’s foremost independent experts on Oracle RAC technology and his book contains everything you need to become proficient in both the theory and practice of Real Application Clusters. If you are planning a RAC implementation, looking to optimize an existing RAC implementation or simply want to become more familiar with this important technology, you should read this book.”

Guy Harrison: Chief Architect – Database Solutions, Quest Software

“Oracle 10g RAC Grid, Services & Clustering provides a deep knowledge base for Oracle 10g RAC and helps readers understand the benefits of scale-out capabilities using industry-standard components. The chapters on the latest Oracle 10g R2 features such as ASM, Automatic Workload Management and RAC Services help readers gain a deeper understanding of Oracle’s Database Grid. The book is a useful source of information for Database Administrators and System Consultants who want to know the capabilities and internal workings of Oracle 10g RAC and its implementation in the enterprise datacenter. As a leading expert on Oracle 10g and RAC, Murali Vallath does an excellent job of addressing Oracle 10g RAC implementation needs ranging from setup, migration to performance optimization. If you want an Oracle expert in house, this book does the job.”

Ibrahim Fashho: Senior Manager - Zafar Mahmood: Senior Consultant - Anthony Fernandez: Senior Analyst, Dell Database and Application Solutions Group

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Features coverage of:

- Implementing, testing and tuning features of Real Application Clusters (RAC) Database 10g Release 2

- Usage, day-to-day functions and operations, as well as tips and techniques such as script samples to illustrate various features of RAC
- Implementing a distributed workload environment
- Storage configuration using Automatic Storage Management (ASM)
- High availability features, FAN, ONS, TAF, FCF and the new runtime connection load balancing
- Monitoring the RAC environment using Oracle's Automatic Workload Repository(AWR) and Automatic Database Diagnostic Monitor (ADDM)
- Discussions with examples of services-based deployment of RAC and on integration and monitoring of RAC
- Covers the internals of Oracle Clusterware and RAC
- Scripts used in this book can be downloaded from the author's website at www.summersky.biz

Murali Vallath has over 18 years of Information Technology experience, of which he has spent 13 years or more on Oracle-related products and technology. Vallath's experience with the clustering technology dates back to his early days at Digital Equipment Corporation, the pioneers in this arena and has been kept up-to-date since then. He currently specializes in RAC. He has successfully completed over 75 small, medium, and terabyte-sized RAC implementations (Oracle 9i & Oracle 10g) for reputed corporate firms. He is a regular speaker at various national and international conferences on RAC and performance-tuning topics. Vallath is the president of the RAC-SIG, the Charlotte Oracle Users Group and a contributing editor to IOUG Select Journal. Vallath can be reached at murali.vallath@summersky.biz international conferences on Oracle parallel server/Oracle real application cluster and performance tuning topics. Vallath can be reached at murali.vallath@summersky.biz or muralivallath@hotmail.com.

About the Author

About the Author

Murali Vallath has over 18 years of information technology experience and over 13 years using Oracle products. His work spans industries such as broadcasting, manufacturing and telephony and most recently transportation logistics. Vallath is no stranger to the software development life cycle; his solid understanding of IT covers requirement analysis, architecture, modeling, database design, application development, performance tuning and implementation.

Vallath is an Oracle Certified Database Administrator and has worked on a variety of database platforms for small to very large implementations, designing extensive databases for high volume, machine critical, real time OLTP systems. His expertise is with Oracle Real Application Clusters. Vallath has successfully completed over 60 successful small, medium and terabyte sized RAC implementations (Oracle 9i & Oracle 10g) for reputed corporate firms.

Vallath is the president of the RAC SIG (www.oracleacsig.org) and the Charlotte Oracle Users Group (www.cltoug.org).

Vallath is a regular speaker at national and international conferences, including the Oracle Open World, IOUG, UKOUG on RAC and Oracle Performance Tuning related topics.

Vallath currently provides Oracle consulting services through Summersky Enterprises LLC (www.summersky.biz). The firm specializes in implementation and performance tuning of Oracle products, including RAC, Data Guard and Oracle Streams. Prior to this he worked as Senior Database Architect at

Elogex Inc. Where apart from the regular performance tuning efforts, he led the Performance Management SWAT team. His previous work and consulting experience includes Hinditron Computers in India, Digital Equipment Corporation, GTE Mobile, Navistar International and DST Interactive (formerly DBS Systems).

Vallath can be reached at murali.vallath@summersky.biz

Users Review

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Brian Wallace:

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