

Infrastructure for Oracle Database Platforms

Optimal price / performance ratio, taking into account the
Oracle license and maintenance costs.

Audience

This one-day seminar is intended for system architects and decision-makers who are responsible for engineering, operation and evaluation of Oracle database platforms.

Subjects

The seminar gives participants a neutral market overview of the most important technology trends of Oracle platforms.

It will be presented all the layers of an Oracle platform and pointed out how the price / performance ratio of an Oracle platform can be optimized in consideration of license and maintenance costs.

Concrete Oracle benchmark results with infrastructure components of the market leaders deepen the participants' knowledge and allow decisions based on facts.

Agenda

Part 1 Introduction

- Complexity of Oracle platforms
- Why TPC, SPEC and SPC figures for Oracle platforms are too little representative
- Strengths and weakness of proof-of-concepts

Part 2 Differences between engineered, converged and reference platforms

Part 3 Processor technology

- Speed and throughput
- Efficiency of multithreading for virtual and physical servers
- Impact of processing power on Oracle costs for EE and SE2 licenses
- Indicators to evaluate the CPU performance for Oracle operations
- Benchmark results of «best-in-class» systems

Part 4 Server technology

- The influence of main memory to Oracle database performance
- Server virtualization versus database virtualization with Oracle multitenant option
- Scalability of servers (scale-up versus scale-out)
- Indicators to evaluate server performance for Oracle operations
- Benchmark results of «best-in-class» systems

Part 5 Storage technology

- The real cost of I/O latency
- Different architectures when using Flash technology
- data locality and the efficiency of storage cache systems
- Auto tiering algorithms compared: storage systems, engineered systems and in the Oracle database system
- Storage system or database system: deduplication, compression, encryption, replication
- Indicators to evaluate storage performance for Oracle operations
- Benchmark results of «best-in-class» systems

Part 6 Database technology

- Parallel processing as the foundation of scalability
- The right choice of DOP (degree of parallelism)
- Auto DOP and Resource Manager
- Bottlenecks of LGWR and DBWR processes
- Indicators to evaluate typical database operations: data loading, data analytics and OLTP performance
- Benchmark results of «best-in-class» systems

Part 7 Best Practices for the configuration of Oracle platforms

- Criteria for the selection of processors, servers and storage systems for Oracle platforms considering Oracle license costs

Part 8 Database-as-a-Service

- How to build a private cloud Database Cloud

Costs

The one-day seminar will be conducted at customer site, so that there will be no travel costs for participants. The cost of the seminar including expenses and comprehensive documentation in electronic form is in Switzerland 1'950 CHF. The number of participants is not limited. For other locations, please ask for an offer. For further information, we are at your disposal.