

DENOMINACIÓN: Tuning para Administradores Oracle10g

OBJETIVOS: Diagnosticar y optimizar problemas de rendimiento comunes
Uso de OEM para la optimización
Uso de Statspack para optimizar la base de datos
Uso de la metodología apropiada
Empleo de las herramientas basadas en AWR (Automatic Workload Repository) para optimizar la base de datos.
Uso de los consejeros de la base de datos.

DIRIGIDO A Personas con experiencia como DBA.

REQUISITOS: Cursos DBA I y II

HORAS: 30 Horas

METODOLOGÍA: Presencial

COSTE: 4050 €

CONTENIDOS

Modulo 1. Performance Tuning Overview

- Write appropriate tuning goals
- Apply the tuning methodology
- Balance performance and safety trade-offs
- Identify common tuning problems
- Log a performance Service Request with Oracle Support

Modulo 2. Statistics and Wait Events

- Identify dynamic performance views useful in tuning
- Identify key tuning components of the alert log file
- Identify key tuning components of user trace files
- Use dynamic performance views to view statistics and wait events

Modulo 3. Metrics, Alerts, and Baselines

- View metrics using the metrics history views
- Create metric thresholds
- View alerts
- Create metric baselines
- Enable adaptive thresholds

Modulo 4. Using Statspack

- Install Statspack
- Create Statspack snapshots
- Generate Statspack reports
- Identify the major sections of the Statspack report

Modulo 5. Using AWR

- Create and manage AWR snapshots
- Generate AWR reports
- Create snapshot sets and compare periods
- Generate ADDM reports
- Generate ASH reports

Modulo 6. Reactive Tuning

- Use Enterprise Manager pages to identify symptoms
- Eliminate operating system issues

Modulo 7. Tuning the Shared Pool

- Diagnose shared pool problems
- Size the shared pool
- Size the reserved area
- Keep objects in the shared pool

Modulo 8. Tuning the Buffer Cache

Describe the buffer cache architecture

Size the buffer cache

Resolve common performance issues related to the buffer cache

Use common diagnostic indicators to suggest a possible solution

Modulo 9. Automatic Shared Memory

Enable Automatic Shared Memory

Set auto-tuned memory parameters

Set the manually tuned SGA parameters

Use the SGA advisor to set SGA target

Modulo 10. Checkpoint and Redo Tuning

Diagnose checkpoint and redo issues

Implement Fast Start MTTR target

Monitor performance impact of Fast Start MTTR target

Implement multiple database writers

Tune the redo chain

Size the redo log file

Size the redo log buffer

Modulo 11. Tuning I/O

Diagnose database I/O issues

Describe the Stripe and Mirror Everything (SAME) concept

Explain the benefits of asynchronous I/O

Choose appropriate I/O solutions

Modulo 12. Tuning PGA and Temporary Space

Diagnose PGA memory issues

Size the PGA memory

Diagnose temporary space issues

Specify temporary tablespace parameters for efficient operation

Modulo 13. Tuning Block Space Usage

Tune segment space management

Convert from dictionary managed tablespaces

Convert to automatic segment space management

Tune block space management

Diagnose and correct row chaining

Diagnose table fragmentation

Compare characteristics of bigfile and smallfile tablespaces

Modulo 14. Initial Configuration

List best practices identified throughout the course

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