



# DSP Oracle Database Health Check Tiers

The No.1 Oracle Partner

**ORACLE**

Partner



# Essentials

Basic checks to maintain a reliable system  
(1 Day, 1 database - 0.5 Days for each additional database)

## Software Configuration

- Edition and licensed options
- Database version
- Database/software patch levels
- Status on support matrix

## Operating System

- System release version
- Uptime
- CPU characteristics
- Memory

## Storage

- Storage type (filesystem, ASM)
- Available disk space
- ASM diskgroup configuration
- Datafile available space and autoextension

## Database Configuration

- Audit file configuration
- Database Tablespace file configuration
- Redo Log file groups
- Control files
- Multiplexing
- SGA/PGA Memory Settings

## Backup

- Backup method
- RMAN Backup configuration and schedule
- Archivelog enabled
- Backup status
- Backup management and retention

## Reliability

- Alert Log review
- Server stability

## HA/DR Status

- Cluster log review
- Cluster resource configuration
- Failover node availability
- Data Guard status check
- Log shipping status check for lag
- Data Guard broker settings

## Maintenance Checks

- Basic check of invalid objects
- Check for regular alert log recycling
- Check for regular trace file recycling
- Fast Recovery Area usage

## Metrics (Point in Time)

- Basic OS resources – CPU and RAM/swap
- High level analysis of a working day via a single statspack/AWR report
- Redo Log rotation

## Integrity

- Basic check for corruption



# Advanced

All Essentials checks plus greater insights into performance, database objects and advanced configuration  
(2 Days, 1 database - 1 Day for each additional database)

## Performance (requires \*AWR/statspack)

- Wait events analysis
- I/O utilisation
- Disk latency checks
- Buffer cache utilisation
- Instance efficiency
- Deadlocks
- Temp usage by database
- Parallelism Settings
- Resource utilisation using e.g. sar tool
- Automatic Database Diagnostic Monitor findings in AWR report
- Memory advisors
- Hugepages settings if applicable

## Reliability

- Check for trace files/memory dumps
- OEM incident review (if applicable)

## Database Configuration

- Foreign keys and check constraints
- Database Scheduled Jobs
- Partitioned objects
- Review of initialisation parameters
- Review log/trace file locations
- Force logging
- Listener configuration / SQLNet Settings

## Cluster/HA

- cluvfy tool
- OCR and voting files
- Diskgroup redundancy and cluster file placement

## Indexes

- Index fragmentation
- Missing indexes
- Expensive indexes
- Duplicate indexes
- Foreign key indexes

## Query

- Expensive queries

## Maintenance Checks

- Investigate invalid objects
- Check for stale table statistics and analyze maintenance jobs
- File size growth rate
- Check for database objects in system tablespace
- Flashback logs
- Audit log size

## Backups

- Performance

## Security (Security Healthcheck also available)

- Check for WITH GRANT option
- Elevated permissions
- Profile settings
- Unlocked accounts



**\*AWR (Automatic Workload Repository) and ASH (Active Session History) reports and analysis are dependant on the database in scope being licensed with Oracle Database Enterprise Edition licenses and additionally the Diagnostic Pack option. It is the Client responsibility to ensure adherence to Oracle Corporation licensing requirements.**

# Comprehensive

All Essential and Advanced Checks plus deep-dive insights into resource utilisation, workload analysis and specialised areas (5 Days, 1 database – 5 Days for each additional database)

## Resource Utilisation (requires \*AWR)

- Monitoring over a period of time to give insights into:
  - Peak, Average & 95th Percentile analysis of:
    - CPU utilisation
    - CPU queue lengths
    - Available memory
    - Memory latches
    - Disk I/O latencies
    - Disk I/O throughput
    - User connections
    - Batch requests/sec
    - Compilations and recompilations/sec

## Query

- Analysis of query plans

## Workload Analysis (using \*ASH)

- Monitoring over a period of time to give insights into:
  - Top queries by execution count, worker time, elapsed time & I/O
  - Top procedures by execution count, worker time, elapsed time & I/O
  - Worst performing execution plan analysis
  - Blocked process report
  - Deadlock capture & review

## Advanced Configuration

- Direct NFS if applicable
- Compression of data and/or backups
- Encryption settings

## Integrity

- Check for corruption with RMAN
- Fragmentation



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