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Key Exadata Features and Best Practices

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EHCC Exadata Hybrid Columnar Compression

Oracle compression technology aimed at saving space without the usual performance degradation.

- New Technology
- Exclusive to Exadata.
- 10x to 50x Compression
- Depending on Data and Compression type chosen



Database Resource Manager (DBRM)

Allows for full resource management based on criteria outlined by administrators.

- Set Priority for Users or Groups
- Guarantee Resource for Users or Groups



I/O Resource Manager (IORM)

Allows for i/o resource management based on criteria outlined by administrators.

- Works with Consumer Groups and Resource Plans
- Works within and across multiple databases



Instance Caging

Run multiple Instances on host with an assigned number of CPUs.

- 11g feature, popularized in Exadata
- Promotes Server Consolidation
- Safeguards Production from non-production workloads



Exadata Smart Flash Cache

Exadata Smart Flash Cache provides a caching mechanism for frequently-accessed data on each Exadata Cell.

- Flash Cache area Automatically created at start up
- Most frequently-accessed data moves to flash from disk
- Exadata software continuously checks if an object needs to be in cache or not



Storage Indexes

A powerful feature of Oracle Exadata Storage Server Software

- Helps avoid I/O Operations
- Works transparently; no administration
- Indexes Automatically Maintained

Oracle Database File System (DBFS)

DBFS is an Oracle 11g feature essential to Exadata

- Runs on ASM
- For users DBFS is a normal file system and can be mounted as NFS
- Use of dedicated database for DBFS is required

