Medical Management solutions upgrades to a Cintra SE-Guard redundant database architecture

Key points

1	Rapid Deployment
2	High Availability
3	Risk Free Migration

Medical Management were running their core business critical medical management billing system on an aging Oracle architecture, faced with growing data volumes and decreasing performance, the architecture needed to be upgraded to a modern version of Linux and the Oracle RDBMS

MEDICAL MANAGEMENT

Solutions, Inc.

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As our established Oracle Partner, Cintra performed our Medical Billing System Oracle database architecture upgrade quickly and without any disruption to my day to business. The new Architecture has resolved prior performance issues and provides me with a high degree in confidence with the database redundancy provided by SE-Guard. Cintra has served my Oracle needs flawlessly since 2009
"

Owner and CEO

The Customer and the Challenge

Medical Management Solutions is an established provider of professional medical billing services providing customer benefits by increasing cash flow, reducing denial rates and lowering payment times. Medical Management Solutions excel in delivering consistent and reliable payments on a predictable basis.

Medical Management were running their core business critical medical management billing system on an aging Oracle architecture, faced with growing data volumes and decreasing performance, the architecture needed to be upgraded to a modern version of Linux and the Oracle RDBMS. Performance and redundancy was of utmost priority to provide the high levels of confidence and an assured service to the business.

The primary requirement of the new Oracle database architecture was to achieve a high level of redundancy and performance at a low cost and to complete the implementation quickly in order to get the business functioning optimally.

Typical Oracle database architecture redundancy options require the use of Oracle enterprise edition which was not financially feasible so a low cost and proven option was needed to provide the level of database redundancy required.

Cintra and the Solution

Cintra performed a rapid, detailed architecture review and design to lay out the optimal database architecture based on Oracle Standard Edition on Oracle Linux servers and the Cintra SE-Guard database redundancy solution. The upgrade project began with Cintra defining a detailed architecture configuration blueprint for the deployment of Oracle Linux on Intel servers running Oracle 11gR2 standard edition with SE-Guard.

The Cintra implementation and integration Blueprint ensured a low risk deployment in a rapid time-frame based on proven best practices for the two database servers delivering local redundancy. The servers were specified for high performance based on Cintra's detailed understanding of the right blend of CPU specifications, memory configuration and storage raid design.

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Customer snapshot

- Medical Billing

Solution snapshot

- Medical Billing Apps on Oracle Linux and Oracle 11gR2
- Database Upgrade
- Rapid Deployment
- High Availability
- Risk Free Migration
- Project Management

Products implemented

- Oracle Linux 6.4
- Oracle 11gR2 SE
- Cintra SE-Guard
- RMAN Backup
- EM Grid Control

Differentiators

- Cintra's blueprinted deployment provided a risk free optimal architecture with embedded best practices
- Cintra's risk free migration process provided a smooth initial test migration followed by an assured production migration
- Cintra's balance of benefits, cost and simplicity provided Medical Management with a platform that will support the business while managing complexity and cost

Cintra's delivery blueprint ensured that the new architecture was deployed quickly and optimally within an aggressive timeline of 3 weeks. SE-Guard provides redundancy based on local log replication between the two servers, with built in replication lag monitoring and intra-day health check reports to confirm the healthy state of the database redundancy.

The new architecture was supported 24x7 by Cintra's Sensor Managed Services program to ensure maximum uptime and performance of the database platform.

Value to Medical Management

Cintra's blueprinted upgrade provided Medical Management with a database architecture built and deployed in rapid time with technical quality and minimal risk. The new architecture increased performance of some reports from 10 minutes or more, down to less than 10 seconds. The redundancy built into the architecture also allowed Medical Management to be compliant with business continuity needs.

Oracle License cost management was also a key factor in the decision to use Cintra and its SE-Guard solution. Medical Management benefited from the lower cost footprint of Oracle Standard Edition One on Intel servers.

Database backups have been optimized with backups being performed via the local standby database server, offloading all activity and associated impact from the primary production database server to the redundant server.

Application release procedures were enhanced, introducing a fallback and recovery strategy in the event of any failure during the release process. This was achieved by introducing a new standard operating procedure that paused replication to the standby database at the beginning of an application release and only re-establishing replication once the release was confirmed as successful. If a disaster occurred during a release then a quick failover to the standby database would provide a rapid recovery, minimizing any impact to the business.

Cintra Architecture Blueprints and Governance

Cintra's customer focused blueprinted upgrade project ensured that Medical Management achieved the best possible database solution at a low cost and in a rapid timeframe. Cintra's end to end ownership from planning, implementation through to 24x7 database support provided the confidence and assurance for Medical Management to focus on the business rather than on IT.

To find out more about Cintra and how we can help you:

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