

Zione Solutions Engagement Showcase

Financial Institutions:

- I. Zione Solutions was engaged as an expert in database security for audit compliance, and in a preventive measure to protect against security threats and data theft. Zione Solutions implemented a solution for audit compliance using Database Vault, Audit Vault, and Database Firewall. The project scope included writing scripts, policies, and reports for secure implementation. These proactive measures prevented loss of applications, financial loss, and share value loss.
- II. Client had performance issues with Daily Batch Loan Application SLAs. Zione Solutions analyzed and built a solution improving the LoanIQ application batch run time for a 1TB database. This involved performing Gap Analysis and reviewing end-to-end infrastructure for hardware, software, and network (including storage). The resulting solution addressed the SLA performance, satisfying the customer base, and preventing substantial revenue loss.
- III. The client requested a solution to reduce the amount of time it would take to display checks for account holders processing their checks. Zione Solutions provided services for performance tuning, which resulted in approximately 90% improvement in performance, allowing displays to process within 1-2 seconds, and also implemented monitoring tools and provided an Oracle 19c database upgrade.

Pharmaceutical:

- I. Client had an intermittent query performance problem on their Data Analytics platform, related to the database instances that were running on Exadata. Zione assigned a senior resource to troubleshoot and diagnose the root cause. The root cause was due to the databases using partitioned tables, and the Oracle Database software having a bug related to incremental statistics. Zione was able to rebuild the database dictionary and change the design for the daily gathering of statistics on tables that had partitions. The throughput of the queries is now consistent across all databases running on Exadata.
- II. Zione Solutions designed a High Availability and Disaster Recovery production architecture for solving a business requirement for the Client. Zione recommended the Client's management to purchase Exadata and ZFS Backup Appliances. Zione designed a totally redundant high-speed RMAN backup solution, using multiple threads and connection channels to backup data to the

ZFS Backup appliances. Zione authored scripts to replicate the backups across an MPLS WAN so that two copies of database backups were retained at two different data centers.

- III. Zione Solutions helped the Client's developers redesign their IBM Cognos front-end application and back-end processing. The Client user community of the IBM Cognos platform is now more user-friendly, and ad-hoc report changes can be done in a few minutes. The redesign has eliminated the delays related to development work that was previously required to make ad-hoc changes to the reports. The redesign has saved much-wasted development time, as the users can do it themselves now.

Human Capital Management (HCM):

- I. Zione Solutions implemented the then-largest Oracle-on-Oracle payroll system from Sun Solaris to Exadata. Implementation included design, configuration, migration, and upgrade for a move of clients. This included a PeopleSoft Tools and App upgrade for Financial and Payroll systems. Oracle Enterprise Manager - Level 4 implementation to manage the engineered systems ExaData, ODA, and ExaLogic across the site in cloud.

Hospitality:

- I. Zione Solutions provided the client with Database Migration upgrades, performance tuning, and setup & configuration for a client with multiple international properties. The delivered solutions emphasized high throughput and faster response time.

Retail:

- I. Zione Solutions provided services for Architecting, Designing, and Implementation for Edition-Based Redefinition (EBR) for 2300+ remote production client databases. This allowed for client's database applications to be upgraded with no downtime, providing cost savings and lack of interruption to service.

Telecom:

- I. Zione team members bring their decades of experience to their work. The Z-DNA contributed to our team includes decades of experience in mobile telecom, going back to the acquisition of McCaw Cellular by AT&T in 1992-1994. In 2011, one team member was managing and optimizing one of the world's first petabyte-sized Oracle databases and was personally responsible for reducing the execution time of key queries summarizing North American network traffic, with a

resulting increase in QoS significant enough for them to be used for real-time network management.

Aerospace-Defense:

- I. A key member of the Zione team has expertise in aerospace-defense that extends over 30 years. Almost every week, as a key contributor, they attend a meeting with the head of Oracle-related security at one of the world's largest aerospace-defense contractors discussing STIG implementation, exploits, data spillage, non-repudiation, and Full Lifecycle Data Protection, and is now working now on converting ledgers and audit logs to Oracle's new blockchain and immutable tables.

Government:

- I. Zione is engaged in an AIX to Exadata Migration, responsible for moving hundreds of databases to a pdb cdb RAC configuration and setting up Data Guard and DR for all of them, as well as providing Oracle ZDLRA for Disaster Recovery. This involves the latest Oracle technology with engineered systems. The goal is also to upgrade the older versions of Oracle to the latest versions and provide a reliable and secure database infrastructure, within the Client's guidelines and with minimal down time & impact to end-users. At the conclusion of this project, these databases will be in a more reliable state and with the added benefits of ease of administration (patching, provisioning, etc.).
- II. Zione Solutions provides subject matter expert support for Oracle Exadata and ZDLRA engineered systems solutions for key government agencies. With more than 500 databases to migrate onto four platforms in a short amount of time, Zione SMEs used the legacy system inventories to architect an optimized, converged solution and leveraged the ZDLRA's real-time apply process to manage the database migrations, which limited downtime to the projects being migrated. Zione is focused on performance optimization and resource utilization for 1,960 cores, 60 terabytes of memory, and over 4 petabytes of storage across multiple data centers. Zione continues to offer expert guidance to the respective agencies in the form of training, best practices, security, and operational expertise as they look forward for their consolidation strategy.

Public Sector:

- I. The client engaged Zione Solutions to Install & Configure Data Guard, and perform an OBIEE assessment on proper use and configuration of tools and performance. Key recommendations and tuning features were presented, along with a step-by-step playbook for Install & Config.