Solution Brief

Unlock the Power of Oracle RMAN with VAST Data:

Maximize Efficiency, Minimize Downtime

VAST | ORACLE

As an Oracle DBA managing critical databases, you understand the importance of reliable backups and swift recovery. The VAST Data Platform seamlessly integrates with Oracle Recovery Manager (RMAN) to deliver unprecedented performance, scalability, and security. Here's how VAST transforms your Oracle backup and recovery operations.

Accelerated Performance and Scalability

VAST's NVMe-over-Fabrics (NVMe-oF) architecture and DirectFlash Technology eliminate traditional I/O bottlenecks, delivering lightning-fast backup and recovery times. The platform's Disaggregated Shared-Everything (DASE) architecture enables independent scaling of compute and storage resources, ensuring consistent performance as your databases grow. With parallel job execution capabilities, multiple RMAN operations can run simultaneously without impacting database performance, helping you meet demanding SLAs with ease.

Advanced Data Protection and Security

VAST's Indestructible Snapshots provide tamper-proof, immutable backups protected against ransomware and unauthorized modifications. The platform's Write-Once-Read-Many (WORM) model, combined with object storage, ensures superior data integrity and compliance with regulations such as GDPR, HIPAA, and CCPA. End-to-end encryption and attribute-based access controls (ABAC) maintain security without compromising performance.

Seamless Integration and Management

Native integration with Oracle RMAN enables DBAs to leverage existing workflows while benefiting from VAST's enhanced capabilities. Policy-based automation and a global namespace simplify backup management across multiple databases and sites, providing a unified view of your storage environment. The Oracle Direct NFS (dNFS) client protocol optimizes performance by reducing overhead and bypassing traditional caching layers.

Powerful Object Storage Integration

VAST's native object storage capabilities provide a game-changing approach to Oracle backup management. By leveraging S3-compatible object storage, VAST delivers cost-effective, scalable, and highly available backup storage that eliminates the complexities of traditional backup targets. Object storage's inherent durability and accessibility make it ideal for long-term retention, while VAST's architecture ensures high-performance direct backup to object storage—without the need for intermediate staging areas or gateway appliances. This direct-to-object approach simplifies the backup infrastructure while providing the foundation for a robust disaster recovery strategy.

Cost-Effective Storage Optimization

VAST's all-flash architecture and advanced data reduction techniques, including similarity reduction, compression, and deduplication, minimize storage requirements and associated costs. By consolidating workloads and reducing hardware requirements, VAST delivers enterprise-grade performance at a fraction of the cost of legacy systems, ensuring better ROI and sustainable scalability.

Enhanced Backup Validation and Testing

VAST accelerates RMAN's automated backup validation capabilities through its low-latency architecture, ensuring backups are reliable and ready for restoration. This enhanced validation process minimizes operational impact while providing confidence in your disaster recovery plans.

About VAST Data

VAST Data is the data platform company built for the AI era. As the new standard for enterprise AI infrastructure, organizations trust the VAST Data Platform to serve their most data-intensive computing needs. VAST Data empowers enterprises to unlock the full potential of their data by providing AI infrastructure that is simple, scalable, and architected from the ground up to power deep learning and GPU-accelerated data centers and clouds. Launched in 2019, VAST Data is the fastest growing data infrastructure company in history. For more information, please visit and follow VAST Data on X (formerly Twitter) and LinkedIn.

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Key Advantages:

- Lightning-fast backup and recovery times with NVMe-oF architecture
- Seamless scalability through DASE architecture
- Direct backup to S3-compatible object storage
- Immutable snapshots for tamper-proof data protection
- Native RMAN integration for simplified management
- Non-disruptive performance for production systems
- Comprehensive security and compliance features
- Cost-effective storage with advanced data reduction
- Accelerated backup validation and testing

Impact for Oracle DBAs:

- Meet demanding SLAs with faster backup and recovery
- Scale effortlessly as databases grow
- Ensure backup integrity and compliance
- Streamline backup management
- Maintain production performance during backups
- Reduce storage costs without compromising performance
- Validate backups with minimal operational impact

The VAST Data Platform revolutionizes Oracle backup and recovery operations by combining high performance, scalability, and security with simplified management and cost efficiency. By addressing the critical challenges faced by Oracle DBAs, VAST enables organizations to protect their valuable data assets while maintaining operational excellence.

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