

ORACLE SECURE BACKUP 10.4 ENTERPRISE DATA PROTECTION

October 2011

TAPE BACKUP MANAGEMENT

PRODUCT HIGHLIGHTS

- Fastest, most efficient Oracle database backups to tape
- Heterogeneous file system protection
- Policy-based tape backup management
- Advanced device and media management
 - Dynamic tape drive sharing
 - Tape vaulting
 - Server-less tape duplication
 - Migration from VTL to physical tape
- Backup encryption options – Native or hardware
- Integrated with Oracle Recovery Manager (RMAN) and Enterprise Manager (EM)
- IPv6 and IPv4 support
- Optimized throughput over Infiniband connections
- Low-cost, per tape drive licensing

CLOUD MODULE

PRODUCT HIGHLIGHTS

- Oracle database backup to the Cloud (internet storage location)
 - Supports Amazon S3
- Easy access and restore of offsite, cloud backups
- Fast database backup compression (Oracle database 11g)
- RMAN backup encryption (Oracle database 10gR2)
- Licensed per RMAN channel

Oracle Secure Backup has been validated by Oracle Maximum Availability Architecture (MAA) engineers for backup and recovery of Exadata:
<http://www.oracle.com/technetwork/database/features/availability/maa-tech-wp-sundbm-backup-11202-183503.pdf>

Oracle Secure Backup 10.4 provides centralized tape backup management for heterogeneous file systems and the Oracle database reducing the complexity and cost of secure, performant data protection.

Unified Data Protection for the Enterprise

Oracle Secure Backup (OSB) delivers unified data protection for heterogeneous file systems, Network Attached Storage (NAS) and the Oracle database in complex distributed IT environments. Highly scalable, Oracle Secure Backup domains (environments) are centrally managed using a single console and common management interface across spectrum of servers and NAS devices.

Beyond file system protection, Oracle Secure Backup has built-in Oracle database integration providing optimized backup / restore for the database. Oracle Secure Backup delivers centralized tape backup management for the entire IT environment:

- Oracle database integration with Recovery Manager (RMAN) supporting versions Oracle9i to Oracle Database 11g Release 2
 - Optimized performance achieving 25-40% faster backups than comparable media management utilities with up to 10% less CPU utilization
- Faster data transfer from Exadata and/or Oracle Database Appliance to media servers by leveraging RDS / RDMA (Reliable Datagram Sockets over Remote Data Memory Access) over Infiniband (IB)
- File system data protection: UNIX / Windows / Linux servers
- NAS data protection leveraging the Network Data Management Protocol (NDMP)

Comprehensive, Enterprise-Class Solution

Data is the most important business asset. Oracle Secure Backup delivers comprehensive data protection management with enterprise-class features and Oracle database integration in one, complete solution. Comparable products separately license advanced features; OSB does not. Advanced capabilities are inclusive in the Oracle Secure Backup low-cost, per tape drive license simplifying license management without compromising functionality.

Backup Encryption: Host-based or Hardware Options

The inherent portability of tape media addresses key backup, long-term storage and disaster recovery requirements. Securing backup data on tape when onsite, offsite and even lost requires backup encryption.

Oracle Secure Backup delivers policy-based backup encryption with backup encryption keys securely stored on the Administrative Server. Encryption keys may be generated

BROAD TAPE DEVICE SUPPORT

Over 200 tape devices are supported from popular or legacy systems to the latest high-performance tape drives. Visit the Oracle Secure Backup web site for the complete certification listing.

TAPE DEVICE VENDORS

ADIC, Breece Hill, Copan, Dell, FalconStor, HP, IBM, Overland Storage, Qualstar, Quantum, Sepaton, SONY, Spectra Logic, and StorageTek

NETWORK ATTACHED STORAGE SUPPORT (NDMP)

EMC
Network Appliance
Pillar Data Systems
Sun ZFS Storage Appliance

PLATFORM SUPPORT

Linux, Windows, SolarisSPARC, Solaris x-86, AIX, HP-UX Itanium

Refer to the Certification tab on My Oracle Support for the latest product certification information



transparently (randomly) or using a passphrase and regularly updated based on user-defined key regeneration schedule(s).

Backup encryption and key management has been expanded in OSB 10.4 to include both host-based and LTO4 / 5 and T10000 B / C tape drive encryption options. Encryption key generation and management are identical for host-based or tape drive encryption.

Media Lifecycle Management

Oracle Secure Backup manages tapes throughout the media life cycle from first write, duplication, and rotation between location(s) then finally reuse upon expiration. The media management foundation begins with user-defined tape pools referred to as “media families” effectively grouping backups with like retention characteristics. A tape rotation (vaulting) and/or duplication policy may then be associated with a media family defining how those tapes are to be managed throughout their lifecycle.

User-defined media policies automate tape management requirements achieving consistent, maintainable tape handling. In addition to media policies, users have fine-grained control to update a volume location, mark it as “missing” and perform on-demand duplication and vaulting operations outside of defined recurring schedules. Information regarding volumes is readily available by browsing the OSB catalog or reviewing location, in transit, exception or user-defined missing volume reports.

Oracle Secure Backup provides policy driven and day-to-day volume management using the OSB web tool, command line or Oracle Enterprise Manager (EM) Grid Control 10.2.0.5.

Advanced Device Management

Oracle Secure Backup has been qualified with over 200 tape devices utilizing SCSI, fibre, and/or SAS connectivity. Physical and virtual tape devices may be directed attached to the host(s) or accessed via fibre switch in a Storage Area Network (SAN).

Optimizing device utilization, Oracle Secure Backup provides dynamic drive sharing and server-less tape duplication:

- In SAN environments, Oracle Secure Backup dynamically shares tape drives between multiple servers for maximum device utilization.
- OSB leverages VTL direct to tape copy providing more performant duplication and reducing server overhead during the duplication process.

Reliability without Sacrifice: Affordable, Secure Data Protection

Oracle reliability: Oracle Secure Backup delivers centralized tape management protecting file system data from distributed heterogeneous servers, NAS devices and the Oracle database further increasing return on your Oracle investment (ROI).



Oracle is committed to developing practices and products that help protect the environment

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