

Oracle Secure Backup 18.1

Enterprise Cloud Data Protection



Oracle Secure Backup 18.1 provides centralized backup management for heterogeneous file systems and the Oracle database to disk, tape and cloud. Taking the sting out of purchasing an enterprise-class application, Oracle Secure Backup delivers advanced backup and restore functionality at a fraction of the cost of comparable solutions thereby reducing complexity and increasing the return of investment for Oracle customers.

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 a centralized backup management for the entire IT environment:

KEY BUSINESS BENEFITS

- Unified backup and recovery management.
- Oracle integration with single-vendor technical resources.
- Optimized performance for Oracle database backup.
- Scalable, single-component licensing model.
- Reduced cost and complexity for reliable data protection.

KEY FEATURES

- Policy-based, centralized backup management.
- Built-in integration with Oracle Recovery Manager (RMAN).
- Optimized backup to disk with Oracle ZFS Storage Appliance integration with NDMP file service.
- Advanced device and media management.
- Backup encryption and key management.
- Automated disk and tape storage management.
- Self-describing backups.
- Integration with advanced networking protocols for maximum performance.

- Oracle database integration with Recovery Manager (RMAN) supporting versions Oracle Database 11g to Oracle Database 19c
- 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)
- Supports cloud storage target devices and disk based devices in addition to tape libraries
- Staging devices for rule-based migration of duplication: Disk to Tape or Disk to Cloud
- Advanced Software Compression
- **NEW:** Support for Oracle Cloud Infrastructure (OCI) Object Storage
- **NEW:** Enhanced "copy instance", cloud devices can now be used as source or target for "copy instance" operations.
- **NEW:** Improved reporting of DB Backups, lsbk and lsbi commands now support filtering on DBNAME, DBID and PIECENAME
- **NEW:** Improved resiliency through checksum validation

ORACLE SECURE BACKUP

DISK BACKUP

- Backup and restore to a user-defined OSB disk pool.
- Disk pool(s) are associated with a file-system directory accessible to media server(s).
- Fine-granularity of user control for disk pools management.
- Define number of concurrent jobs (streams) per disk pool to best meet SLAs.
- Disk backups may be migrated or copied to tape.
- Advanced NDMP integration for optimized data transport.

TAPE BACKUP

- Dynamic drive sharing between media servers.
- Support for StorageTek ACSLS (Advanced Cartridge System Library Software).
- Server-less tape duplication with supported VTLs (Virtual Tape Libraries).
- Support and key management for tape drive encryption (T10000 and LTO).

CLOUD BACKUP

- Leverage the Oracle Cloud Infrastructure Storage Classic for your offsite backups storage needs.
- Supports both the Object Storage and the Archive Storage

STAGING

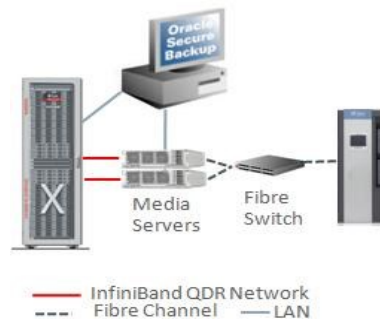
- Create staging devices to implement policy-driven Disk-To-Disk-To-Tape or Disk-To-Disk-To-Cloud solutions
- Data can be moved or copied from local Staging Devices to Tape or Cloud devices

Comprehensive without the Complexity

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 stream license simplifying license management without compromising functionality.

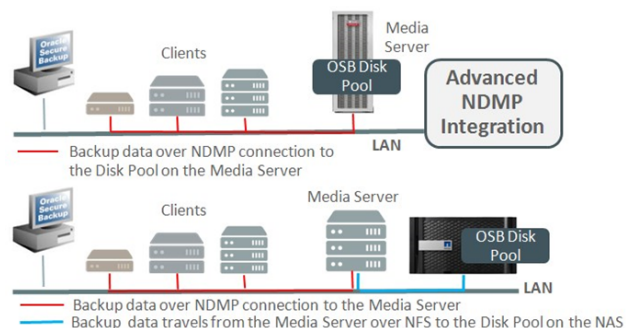
Oracle Integrated, Optimized Disk, Tape and Cloud Backup

Oracle Secure Backup delivers the fastest backup to tape for the Oracle database through built-in integration with RMAN. With RMAN / OSB optimizations such as undo and unused block compression when backing up to tape managed by Oracle Secure Backup, the Oracle database backup to tape will be smaller and faster than comparable solutions. Oracle Secure Backup has been validated by Oracle Maximum Availability Architecture (MAA) engineers for Exadata backup and recovery to tape.



Exponential data growth has wreaked havoc on backup and recovery infrastructures making it difficult to meet backup windows and other important service level agreements (SLA). Oracle Secure Backup 12.2 addresses these challenges by dynamically sharing tape drives and disk pools across multiple media servers for increased device utilization as well as performance. When using the Oracle ZFS Storage Appliance as an Oracle Secure Backup disk pool, the backup and restore data is transmitted via NDMP versus NFS providing two distinct benefits:

1. Faster backup and restore via NDMP file service integration than when sending backup/restore data over NFS
2. Smaller infrastructure footprint with the Oracle ZFS Storage Appliance versus requiring both a media server (UNIX/Linux/Windows) plus shared disk storage



It is good to be part of the family - Oracle Secure Backup is integrated with the Oracle database, Oracle storage products and Engineered Systems to offer the best user experience for Oracle customers.

ORACLE SECURE BACKUP

Centralized backup and recovery management to disk and / or tape for heterogeneous file system data and the Oracle database.

PLATFORM SUPPORT

- Linux, Solaris x86, Solaris SPARC, HP-UX, AIX and Windows

TAPE DEVICES SUPPORT

Over 200 supported tape devices from legacy devices to the latest highperformance devices. Visit the Oracle Secure Backup website for the most recent tape compatibility matrix.

CLOUD STORAGE SUPPORT

Oracle Cloud Infrastructure Storage Classic (gen 1), Standard and Archive container

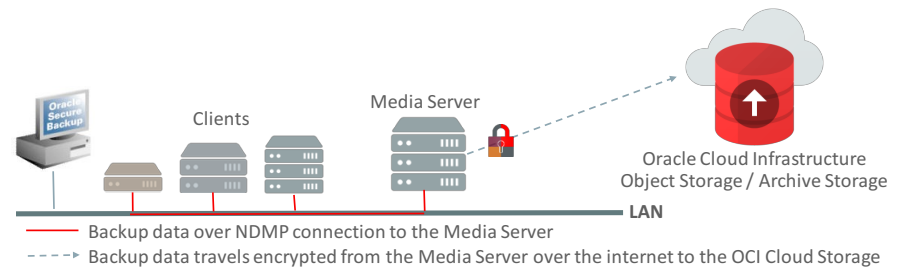
Oracle Cloud Infrastructure (gen 2), Standard and Archive buckets

RELATED PRODUCTS

- Oracle Recovery Manager (RMAN)
- StorageTek tape libraries
- Oracle ZFS Storage Appliance
- Oracle Cloud Infrastructure Storage Classic

Cloud Backup

Thanks to the new Cloud Devices OSB can now store your backups in the Oracle Cloud Infrastructure. Both OCI-C (gen 1) and OCI (gen 2) Object Storage and Archive Storage are supported. Taking advantage of the new Staging Devices and Cloud Devices you can replace your tape-rotation-based vaulting procedure with an automatic rule-based Disk-to-Disk-to-Cloud solution that is easier to manage and cost effective and still satisfy your requirement for offsite backup storage.



With Secure Backup 18.1, in addition to full support for OCI (gen 2) Object Storage and Archive Storage, there is now improved performance during cleanup operations on cloud buckets and the ability to perform copy instance operations between the OCI-C (gen 1) and OCI (gen 2) Object Storage Services. Also it's now possible to use Cloud Devices as a source for copy operations allowing backups to be copied from Cloud to Tape or Disk devices on-premises.

Staging

Staging simplifies the use of disk pools as temporary containers. A backup written to a disk pool staging device is copied or moved to tape or cloud device at a later time. Backup images staged on a disk pool can be scheduled for movement to a tape or cloud device based on either a schedule or on the amount of data in the disk pool device. Stage rules control which backup images are copied, and when they are copied. They can also be used to control the minimum time a backup image is guaranteed to remain on a stage device.

Policy-Based Management of the Backup Domain

Oracle Secure Backup includes a set of pre-configured defaults and policies defining operational behavior within the OSB backup domain from amount of time OSB logs should be maintained to minimum password length required for OSB users. You may leave the existing default settings or modify as appropriate for your specific requirements.

In addition to the "Defaults and Policies" infrastructure, Oracle Secure Backup provides policy-based management for backup operations, media lifecycle management and backup encryption to tape.

Backup Encryption: Host-based or Tape Drive

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 transparently (randomly) or using a passphrase and regularly updated based on user defined key regeneration schedule(s). Backups may be encrypted using either host-based or LTO and T10000 tape drive encryption options. Encryption key generation and management are identical for host based or tape drive encryption.

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).

With Secure Backup 18.1 there is even more resilience. A checksum is generated and stored before a backup is written or copied to the target device and it is used to verify the integrity of the data during a validation job or copy backup job.



CONTACT US

For more information Oracle Secure Backup visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Hardware and Software, Engineered to Work Together

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