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Oracle Secure Backup 19.1

Data Sheet

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SECURE BACKUP

Enterprise Cloud Data Protection

Oracle Secure Backup 19.1 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, on-premises and in the cloud. Highly scalable, Oracle Secure Backup domains (environments) are centrally managed using a single console and common management interface across a spectrum of servers and target devices.

- **NEW:** Supports Immutable backups for ransomware cyber recovery and regulatory compliance via OCI Object Storage Retention Rules
- **NEW:** Supports Client Direct to Cloud backup and restore operations, removing media servers from the critical data path.
- Supports all OCI object storage tiers (standard, infrequent access, archive)
- Oracle database integration with Recovery Manager (RMAN) supporting versions Oracle Database 11*g* to Oracle Database 23ai
- Easy deployment in OCI via Marketplace image and Ansible playbooks
- Staging devices for rule-based migration or duplication on hybrid environments: on-premises disk to cloud object storage
- Enhanced "copy instance" for migrating long-term retention tape backups to OCI object storage
- File System data protection: Linux, Windows, Unix, and OCI compute instances

Key Business Benefits

- Unified backup and recovery management
- Oracle integration with single-vendor technical resources on-premises or in the cloud
- Immutable backups via OCI object storage retention policies for ransomware protection
- Improved performance for protecting cloud compute instances via Client Direct to Cloud backup and restore
- 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).
- Advanced device and media management.
- Backup encryption and key management.
- Automated cloud, disk, and tape storage management

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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 Cloud, Disk, and Tape Backup

Oracle Secure Backup delivers the fastest backup 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 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.
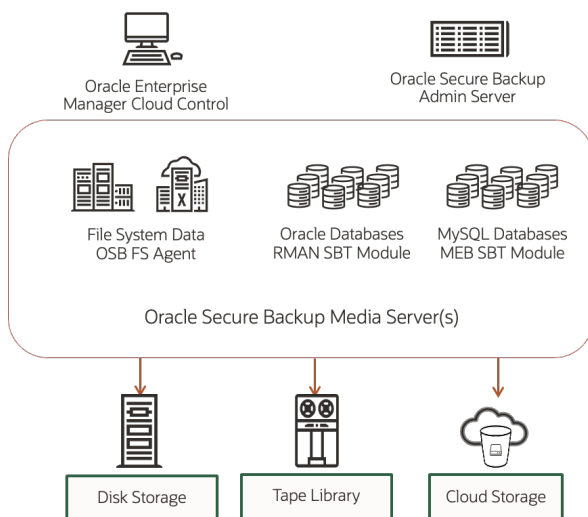
Cloud Backups

Thanks to the Cloud Storage Devices OSB can store your backups in the Oracle Cloud Infrastructure. All three object storage tiers are supported, standard, infrequent access, and archive. Taking advantage of the new Staging Devices and Cloud Storage 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.

Cloud Backup

Leverage the Oracle Cloud Infrastructure Object Storage for your offsite backups storage needs. Supports Object Storage retention rules for immutable backups and ransomware recovery.

Supports all Object Storage tiers, Standard, Infrequent Access, and Archive

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.

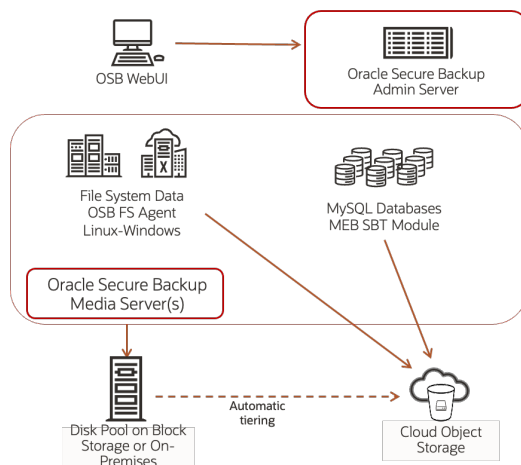Advanced NDMP integration for optimized data transport.

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).

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With Secure Backup 19.1, in addition to full support for OCI Object Storage, there is now improved performance during backup and restore operations thanks to the Client Direct to Cloud feature. No need to have media servers, that can become bottlenecks and single points of failure, in the data path between the client and the cloud. With Client Direct to Cloud each client can directly access cloud storage.

Protect against ransomware attacks

Ransomware attacks are today the biggest threat to business survival. A Cyber Recovery strategy is necessary to minimize service disruption should an attack happen. OSB 19.1 introduces support for OCI object storage with retention rules. Backups stored in buckets protected by retention rules are immutable and cannot be deleted or altered for the configured period. Retention rules can be locked so that no one, not even a tenancy administrator, can delete them or reduce the retention time. Backups are also encrypted to prevent malicious actors from restoring them after exfiltration.

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 later. 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. Staging 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 staging 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.

Staging

Create staging devices to implement policy-driven Disk-To-Disk-To-Cloud or Disk-To-Disk-To-Tape solutions.

Data can be moved or copied from local Staging Devices to Cloud or Tape automatically.

Oracle Secure Backup

Centralized backup and recovery management to cloud, 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 Device Support

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

Cloud Storage Support

Oracle Cloud Infrastructure Storage Classic, Standard and Archive container

Oracle Cloud Infrastructure, Standard and Archive buckets

Related Products

Oracle Recovery Manager (RMAN)

Oracle Cloud Infrastructure

Oracle ZFS Storage Appliance

Oracle Zero Data Loss Recovery Appliance (ZDLRA)

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Backup Encryption: Host-based or Tape Drive

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 sent to cloud object storage are encrypted by default. It is fundamental to encrypt backups to prevent exfiltration risks in case of ransomware attacks.

Tape backups may also 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.

ZDLRA Integration

OSB is the exclusive media manager for tape libraries directly attached to ZDLRA via FC-SAN. In the ZDLRA environment, the OSB admin domain is cluster aware and fault tolerant with no single point of failure. This HA capability only exists when OSB runs within ZDLRA. In the ZDLRA environment, OSB is a fully managed component using the ZDLRA management APIs.

Reliability without Sacrifice: Affordable, Secure Data Protection

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

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