

ORACLE®

Oracle Secure Backup 12.2

What's New

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Program Agenda

- 1 ➤ Centralized Backup Management
- 2 ➤ Cloud Backup
- 3 ➤ Staging

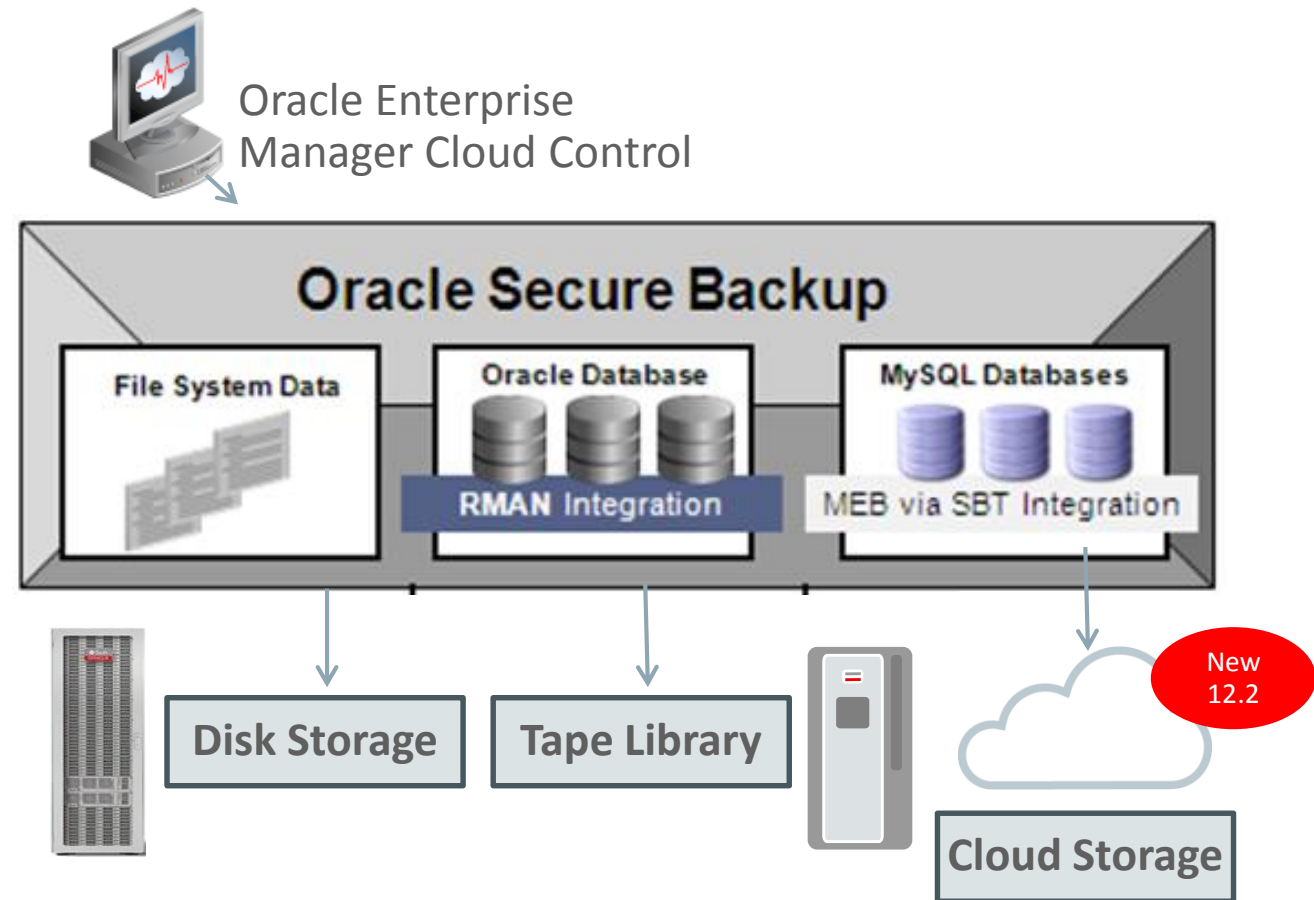
Centralized Backup Management

Oracle Secure Backup

Oracle Secure Backup

Protects Entire IT Environment On-premises Hybrid and public cloud

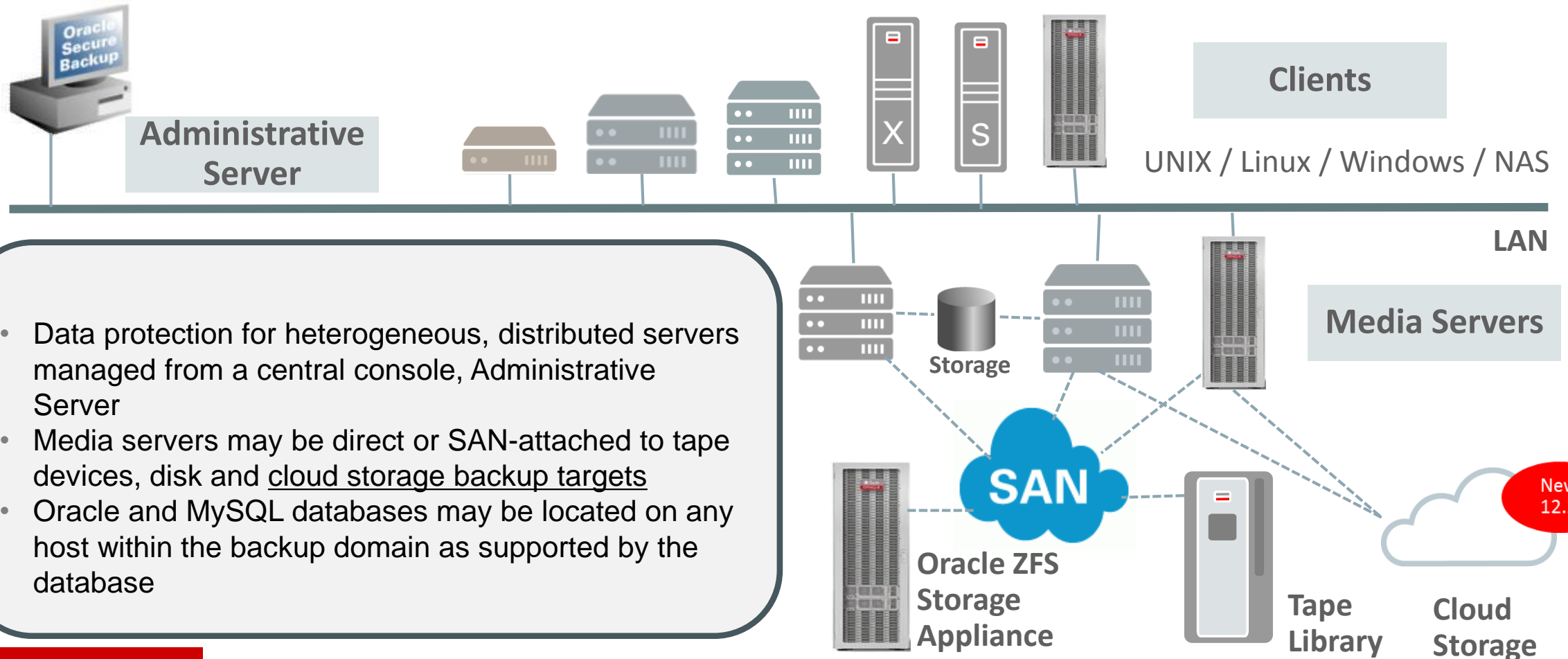
- Oracle Database 12c to Oracle 10g
 - 25 – 40% faster tape backup
- MySQL Enterprise Edition
- Heterogeneous file systems (UNIX/ Linux / Windows) and NAS devices
- **Built-in Oracle Integration**
- Centralized management in distributed environments on-premises and in the cloud
- **Over 75% less expensive than comparable products**



RMAN – Oracle Recovery Manager, MEB – MySQL Enterprise Backup, SBT – Oracle’s API for integration with media managers

Centralized Backup Management

Disk, Tape or Disk and Tape Backup Environments



- Data protection for heterogeneous, distributed servers managed from a central console, Administrative Server
- Media servers may be direct or SAN-attached to tape devices, disk and cloud storage backup targets
- Oracle and MySQL databases may be located on any host within the backup domain as supported by the database



OSB 12.2 new features

- Introducing support for Oracle Cloud Storage and Archive
 - Now supports Oracle Cloud Storage as a backup target
 - Object Storage and Archive Storage
 - All cloud backups encrypted, keys stored locally
- New Staging Devices
 - Support staging to disk, tape or cloud
 - Scheduled Rule-based migration or duplication
 - Independent retention time
- Policy Based Compression
 - Per host or per job, 4 levels HIGH, MEDIUM, LOW, BASIC



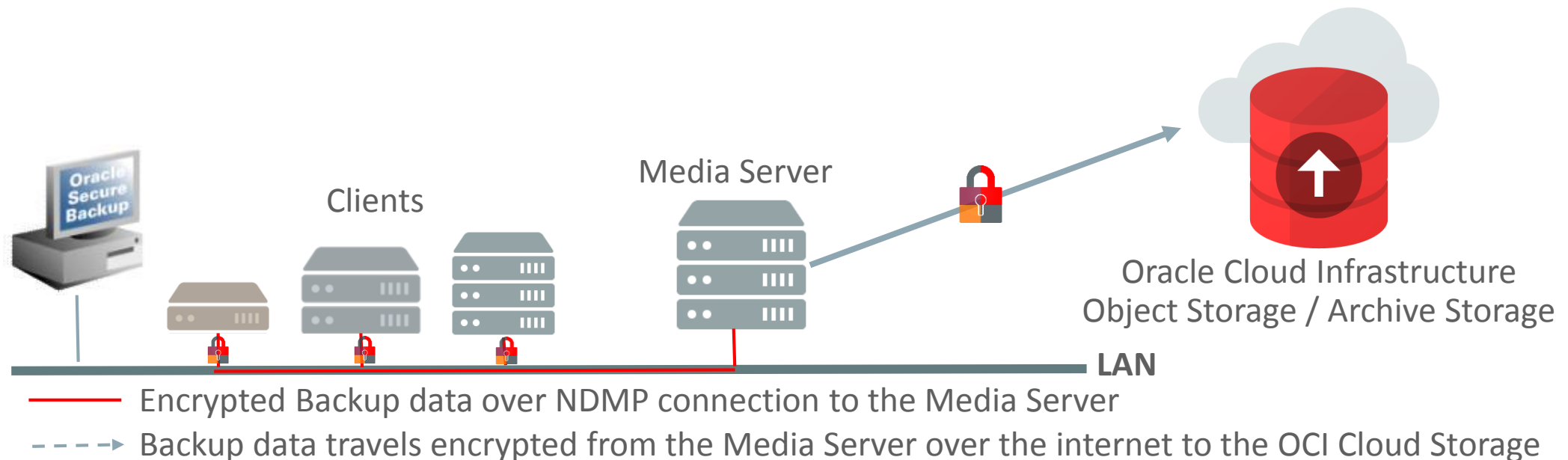
Cloud Backup

Oracle Secure Backup to Oracle Cloud Infrastructure Storage Classic

Backup to Cloud Storage

Oracle Cloud Infrastructure Storage Classic

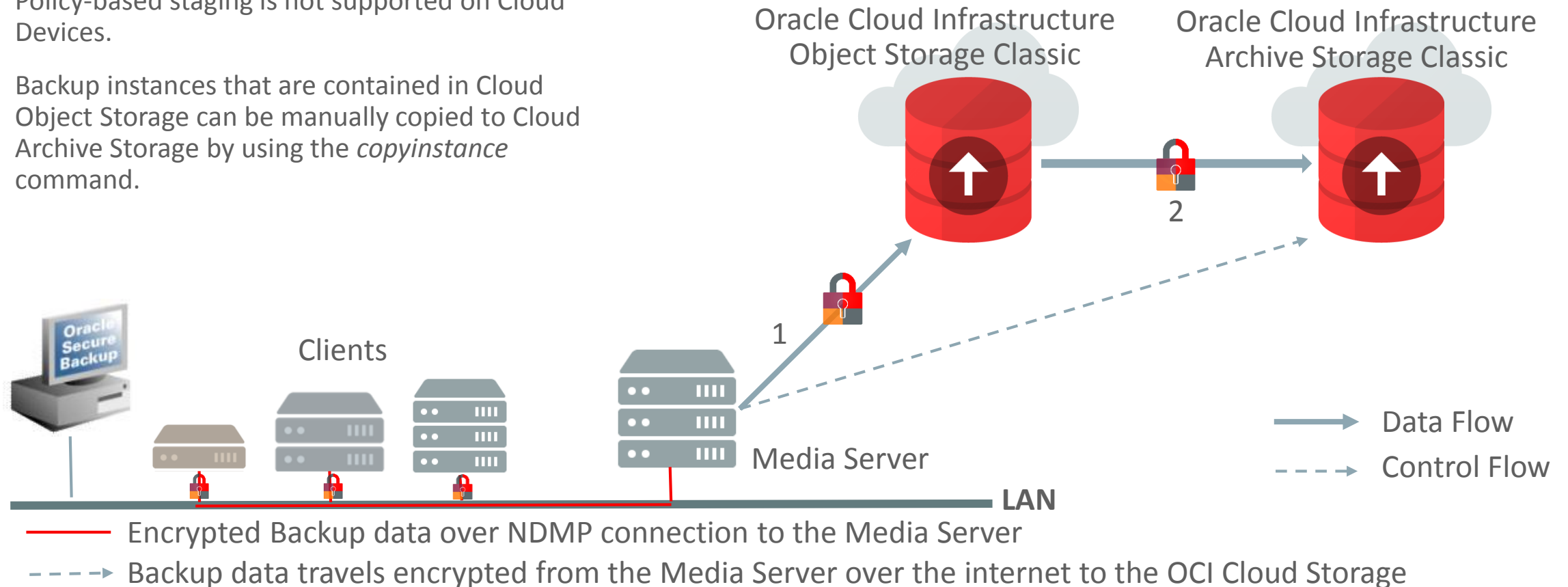
- Cloud Devices can now be created to store backup in the Oracle Cloud
- Standard and Archive Containers can be used



Tiering Cloud Backups

Backing up to Cloud Object Storage Before Moving or Copying to Cloud Archive Storage

- Policy-based staging is not supported on Cloud Devices.
- Backup instances that are contained in Cloud Object Storage can be manually copied to Cloud Archive Storage by using the *copyinstance* command.



Introducing Cloud Devices

- The cloud storage device is an Oracle Secure Backup device resource.
- Backup jobs must be explicitly configured to use cloud storage devices. The cloud storage device can store file-system backups or RMAN backups of Oracle databases.
- A cloud storage device and its associated container can belong to only one Oracle Secure Backup administrative domain. It cannot be shared between multiple Oracle Secure Backup administrative domains.
- Licensing is based on number of concurrent jobs, same as Disk Pools.
- Backup image instances remain in the cloud container until they expire, are explicitly deleted, or are migrated to a cloud archive container. Oracle Secure Backup deletes expired backup image instances only when the device's free space goal is not met; not immediately after they expire.
- Oracle Secure Backup ensures that backup data is encrypted on the client before it is written to the cloud. If the backup job does not require encryption, then Oracle Secure Backup's client-side software encryption is **automatically forced on** and the encryption policies set up in the client are applied to the backup data written to the cloud storage device.

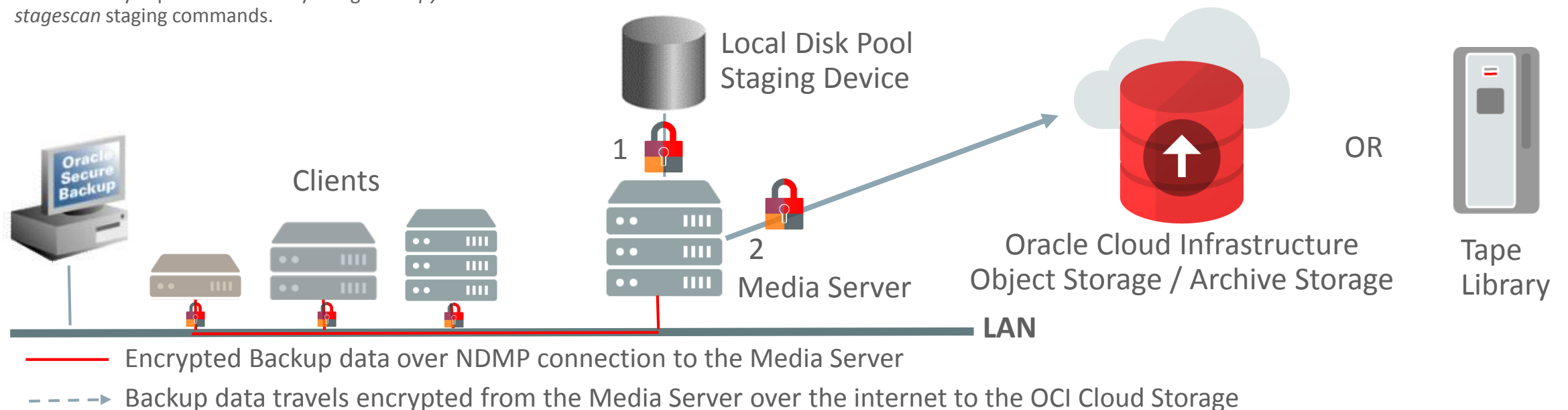
Staging

Automatic Rule-Based Copying or Moving Backup Instances

Staging Devices

Staging to Local Disk Pool Before Moving or Copying to the Cloud or Tape

- Backup instances can be copied or moved using a scheduled automatic process or an on-demand manual process.
- The Staging device's Rules determine which backup instances are moved/copied, where they are moved to and at what time
- Backup instances that are contained in a disk pool can be automatically copied or moved by using the *copyinstance* or *stagescan* staging commands.



Staging Devices

Limitations

- Only encrypted backup instances that are contained in a disk pool can be copied or moved to an Oracle Cloud Infrastructure container.
- Backup instances contained in Oracle Cloud Infrastructure Object Storage Classic containers can be copied or moved to Oracle Cloud Infrastructure Archive Storage Classic containers manually using the *cpinstance* command.
- Backup instances contained in Oracle Cloud Infrastructure Archive Storage Classic containers cannot be moved to Oracle Cloud Infrastructure Object Storage Classic containers.
- Backup instances contained in Oracle Cloud Infrastructure cannot be moved out of the cloud using staging.

Oracle Secure Backup - Enterprise Backup Software



Policy-based management
across the backup domain



Management of backups to
disk tape or cloud
throughout their lifecycle



Oracle integration increases
ROI and provides a single-
vender technical resource
for increased customer
experience



Low-cost, single-component
licensing reduces
complexity and saves
money

Hardware and Software Engineered to Work Together

ORACLE®