Rethinking How Data Is Managed

FreeStor® – Software Defined For Everything Oracle

FreeStor is a true Software-Defined Storage (SDS) platform featuring integration into many business critical applications, including those provided by Oracle. FreeStor's Oracle integration provides an optimized, cluster-aware solution allowing for simple Infrastructure as a Service (IaaS) and Database as a Service (DBaaS) provisioning to internal and external clients.

Oracle Real Application Clusters (RAC) is the quintessential business-critical application. However, many modern storage platforms cannot provide clustering themselves, nor can they provide direct support for clustered applications. FreeStor delivers this capability for nearly any storage platform, new or old. FreeStor includes full support for Automatic Storage Management (ASM), Oracle Cluster File System (OCFS) and Oracle VM. It also boasts a RESTful API to make automation easy and familiar. Flexibility is key. With the multiplicity of application demands, evolving workloads and storage solutions available, "good enough" is all too frequently discovered to be anything but. FreeStor is multi-Protocol, offering both shared and RAW provisioned storage. FreeStor is capable of optimizing storage for general performance and also for specific Oracle requirements.

Application-aware storage is another key consideration. Application awareness enables standard storage activities, such as snapshots (hot or cold), clones and backups to be performed in such a way that data loss or corruption due to ongoing storage activities occurring during storage events is avoided. It isn't enough to make sure that the primary storage is clean: application aware storage makes sure that all copies of the primary data are usable as-is, without requiring database verification or repair.

Making Storage Shine

There are a number of ways FreeStor can make Oracle RAC shine. Data migration, continuous availability, Continuous Data Protection (CDP) and advanced replication are all important scenarios. Data Migration is a real world storage problem easily addressed by FreeStor. FreeStor offers the ability to easily move data among storage devices and vendor platforms. This data can be array to array, site to site, cluster to cluster, and cloud to cloud or can be a many-to-one consolidation project. It can also be part of a storage tiering effort; moving tier one workloads to hybrid or all flash arrays while moving other workloads to traditional arrays and "cold" data like snapshots and backups off to tape or to the cloud.

Continuous availability of data in heterogeneous environments is another key use case for Free-Stor. Consider for a moment an environment with both an EMC array and an Oracle FS1 array, where the storage administrator wants to be able to replicate data between the two devices. FreeStor allows not only site-to-site replication between dissimilar platforms, but allows resources from one to be mirrored to another. Always-on synchronization of data across low-latency links has traditionally been limited to specialty platforms with very high price tags, but FreeStor allows stretch, or "metro-cluster" topologies across any storage platform.

In addition to local and cross-site resiliency, FreeStor also provides the capability for continuous data protection (CDP). CDP in FreeStor is done via snapshots and journaling, enabling astonishing near-zero or zero RTO/RPO metrics. Snapshots can also be effectively used for point-in-time recovery of data sets or entire systems, as well as for light-weight, temporary data mining, reporting, and validation purposes.
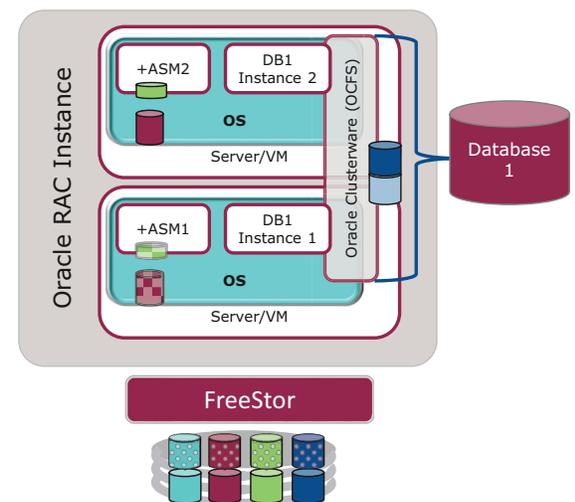
Both Oracle RAC and Storage availability are key factors for business continuity and maintaining operations no matter what the circumstances. FreeStor also plays a critical role in providing point-in-time recovery for supporting true disasters. Many Oracle customers use tools like DataGuard for constant log-shipping and remote recovery of data. However, being able to recover entire server farms, OS volumes, and specific application servers, without having to maintain cold-spare equipment is an extra value proposition that FreeStor delivers. FreeStor also includes full virtual tape technology across storage platforms to fully round-out a BC/DR strategy.

All of these capabilities mentioned above used to fall into the realm of at least four different IT groups: the DBA, Storage admin, Backup Admin, and the Wintel team. FreeStor helps to consolidate these efforts where and when appropriate, and reduce daily administrative complexity and risk by providing a single console access (or customer REST interface) to manage Oracle-based infrastructure resources. With FreeStor, Oracle RAC can perform as never before, regardless of the underlying storage vendor. Oracle RAC can have robust data protection and copy data management without additional cost, configuration or effort. Make the best of any storage, anywhere with Free-Stor.

FreeStor® - Software Defined Storage With No Surprises

Today's challenges require a new, software-defined approach that eliminates vendor lock-in, proprietary platform silos, increased complexity, and lack of hardware and software compatibility. Only FreeStor addresses those challenges head on and delivers real value to help organizations reduce costs, eliminate silo's while providing real flexibility and freedom.

20X
ADAPT FASTER
Provision storage in 6 clicks - less than one minute
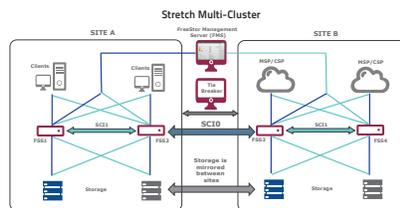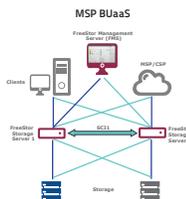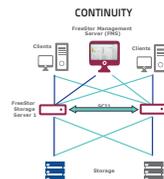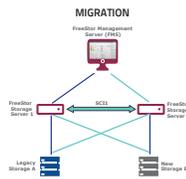
SAVE 90%
LOWER YOUR COSTS
Pay up to 90% less than buying same features and capacity vs. array-by-array

ONE
USE ONE TOOL
Single pane of glass for ALL storage; monitor, report and analyze from ONE tool

PREDICT THE FUTURE
NO SURPRISES
Track utilization and predict capacity to better forecast budgets and resources

MIGRATION

CONTINUITY

MSP BUaaS

Stretch Multi-Cluster

Technical Features

- **NEW:** Predictive Analytics across all storage resources
- **NEW:** Simplified Web UI w/ REST APIs
- **NEW:** SAP HANA Certification
- **NEW:** OpenStack Cinder Driver
- **NEW:** Smartphone apps for Android and iOS
- Next generation Intelligent Abstraction® layer
- Unified, centralized management, monitoring, and reporting via Web, tablet, and smartphone
- Improved Failover/HA (Active/Active)
- IO Cluster and IO Multi- Cluster (4-way)
- Over 1 million IOPS per IO Cluster using SSD
- Improved latency
- Inline block-level deduplication

Technical Benefits

- Horizontal architecture with a single platform, and a single price
- Seamless migration of data to, from and across storage platforms
- Centralized management for enhanced simplicity
- Access the latest storage venues like the public/private/hybrid cloud, SSD and Flash

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