APTARE

# Data Protection of NetApp Storage in Virtualized Environments

## Backup in the Virtual World

The benefits of server virtualization are obvious: increased utilization rates, increased business flexibility, lower hardware costs, better utilization of computing resources, reduced space requirements, power and cooling requirements and improved IT staff productivity. However, none of these benefits can be realized if IT doesn't address the new challenges that virtualization can bring when it comes to protecting data. Data protection challenges associated with expanded use of virtualization includes increased risks to enterprise data and additional costs to protect that data.

Backing up virtualized environments presents very different challenges than in the physical world. As more production environments include both virtual and physical servers, the methods of backing them up make it difficult to determine which guests are backed up and therefore which applications are being protected. Meanwhile, regulatory compliance and business continuity requirements must continue to be maintained.

## Visibility- Do You Know What Has Been Backed Up?

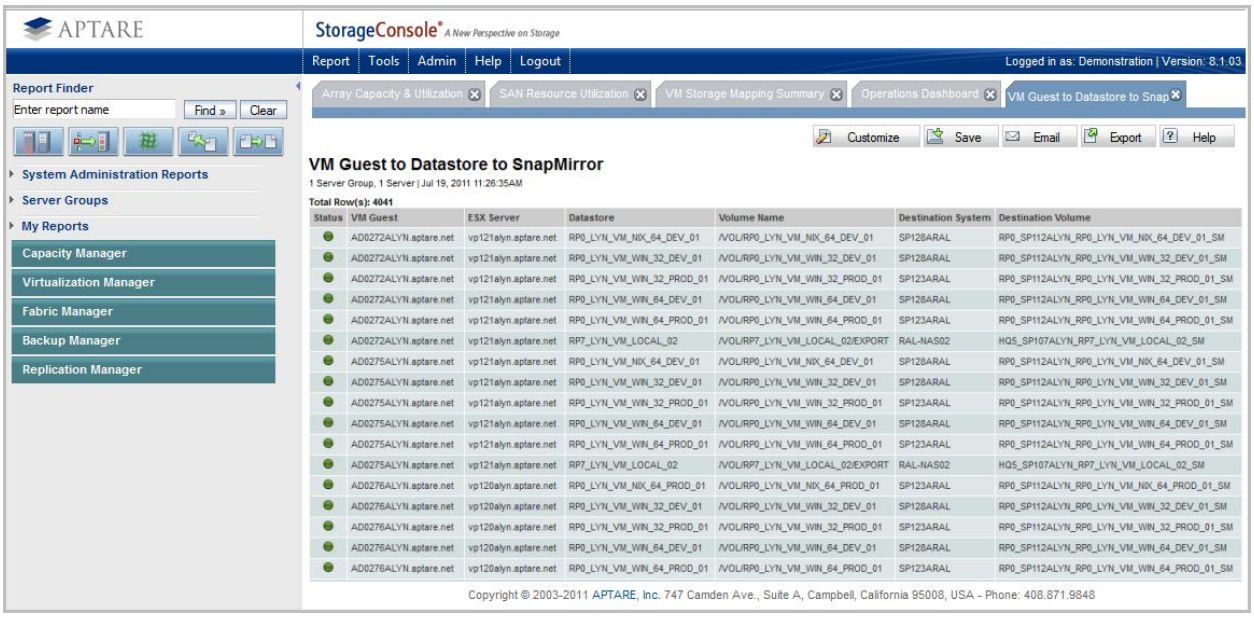
Current backup software was made for physical environments and doesn't provide the visibility required for IT to be assured that their data is protected and that it can be recovered quickly. In the virtual world, VM guests are not backed up individually like physical servers. VM guests usually are mapped to a common data source and when the data source is backed up it is assumed that all the guests are backed up as well. The backup, whether by Snapshot®, SnapVault® or traditional method, does not have awareness of the guests or their applications.

For instance, in a NetApp® environment using NetBackup® once a SnapVault is backed up, there is no visibility into it and it is very difficult to tell if the VM guests that make up that SnapVault are part of a critical business application, such as SAP or Oracle. Further complicating the issue is that once the SnapVaults are moved to an off-site facility, they become further abstracted from the origin of the data, making visibility nearly impossible.

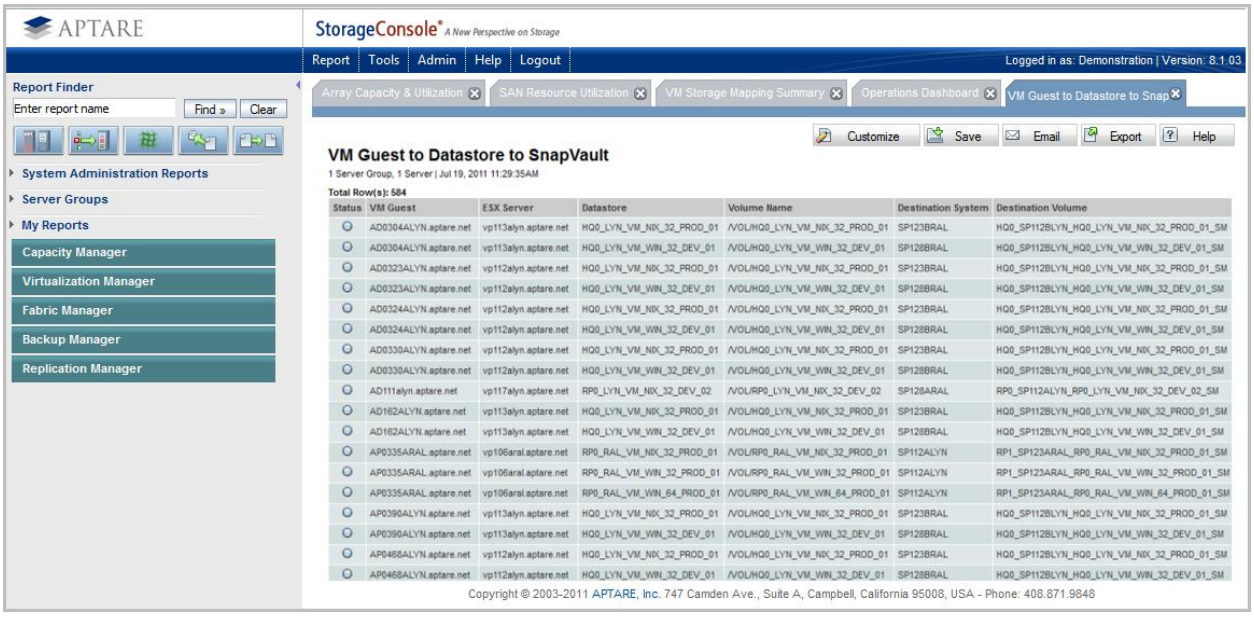
## The Solution: APTARE StorageConsole

APTARE StorageConsole is a single platform that provides a storage perspective of the data center from the physical, virtual and backup environments. Using a common, standard database across all products, APTARE StorageConsole maintains the detailed relationships between all three components of your storage environment related to VM storage and backup: (1) Virtual Servers, their guests, and the storage to which they are mapped; (2) Storage Arrays, their volumes and Snapshots; and (3) Backups, including environment, jobs, policies, schedules, and retention periods. APTARE StorageConsole provides the visibility needed to proactively manage your virtualized backup environment and proactively achieve data compliance.

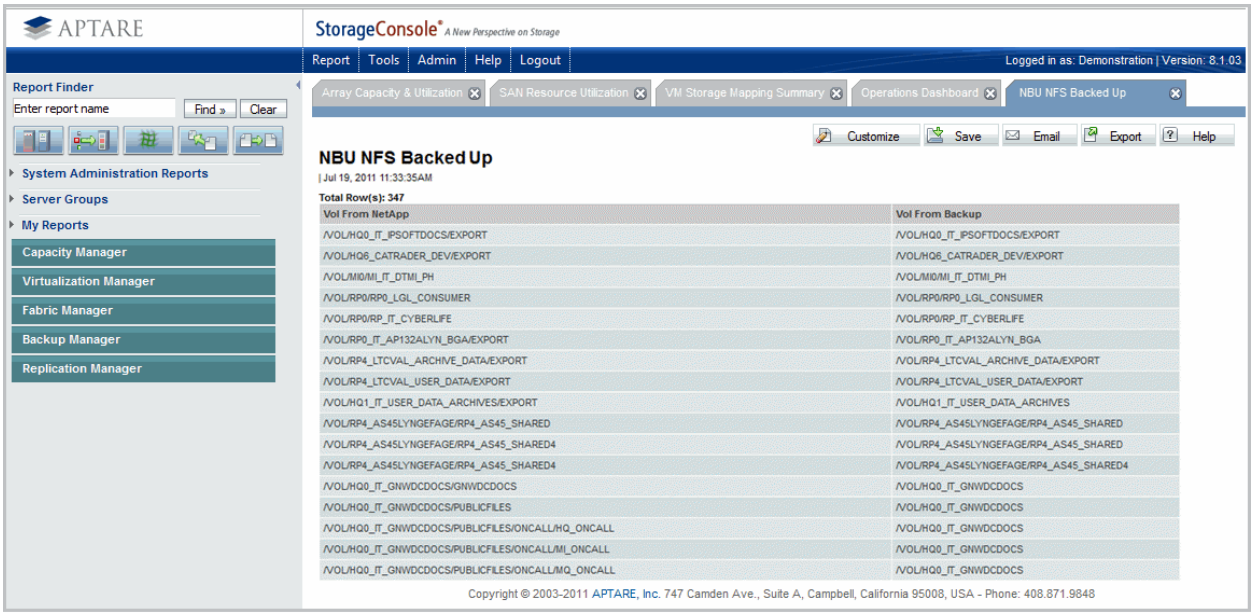
The following APTARE report consolidates all of the critical information into one report, enabling an at-a-glance view of VM guests, along with their locations on the destination systems and volumes.



This APTARE StorageConsole report lists the information as it relates to the VM guest for SnapVault backups.




The following report leverages the StorageConsole database, which contains all the information collected by the APTARE StorageConsole products: Backup Manager, Virtualization Manager, and Capacity Manager. StorageConsole data collection can discover volumes that have been backed up. Using a report similar to the following example, customers have been able to identify volumes that they thought were being backed up, but that were overlooked because a backup policy was not in place for those particular volumes. In addition, once the policy was in place, APTARE StorageConsole made it easy to confirm that the volumes actually were being backed up.




To learn more about APTARE Virtualization and Data Protection products, visit our web site www.aptare.com or contact APTARE Inc. at 866.927.8273