

Wysetek implements Enterprise Backup Solution for a leading bank



The Customer's Business

Enterprise Backup Solution implemented by Wysetek helped achieve easy management & restoration of the backup solution to the bank using backup appliance.

Customer is a private sector scheduled commercial bank in India. It is amongst the new generation banks that received the scheduled commercial bank license from the bank regulator, Reserve Bank of India.

The Need for a Solution

The bank was previously using an old backup version application with an old backup appliance with limited disk storage and all backups are working through 1Gig LAN.

Bank has decided to upgrade the backup platform which delivers unified data protection for any size enterprise with enterprise-class scale, performance, and extensive workload integrations.

Wysetek has implemented backup solution for their backup requirement that use features like SAN Client base backup for physical servers to reduce the backup window which is one of the main pain point for the customer.

We have also upgraded the current backup application version of backup servers and reporting server. Secondly we have installed new backup appliance with high disk space to maintain the greater retention period on primary storage which is disk (MSDP) and later it get tape out for long term retention.

The Implementation

The implementation consisted of data composed of NDMP, VMware, Physical Server, Files & Application Server, SAP, Oracle DB Server and SQL Server. The infra has both Physical and Virtual servers. Virtual System is protected without any agent. Similarly business critical application servers (Oracle, SQL& SAP) are protected with backup agents. Backups are getting stored on Backup Appliance (74TB) which gives greater percentage of deduplication, compression and encryption of data. Primary copy will remain on backup appliances for short term retention and for long term retention data will get duplicated on tapes.

The data is getting stored on a backup appliance in MSDP storage. It interfaces over Ethernet (1 / 25 Gig) and Fibre Channel. It supports replication, sending only deduplicated changes over the wire. Other highlights include inline encryption of data at rest and secure retention for archive data, which satisfies compliance concerns. Backup appliance works by distributing parts of the deduplication process to the backup server or application client so only unique data segments get sent to the storage server. This results in up to 50% faster backups that use less bandwidth and system resources.

Wysetek has configured additional backup appliance to enhance the overall backup infrastructure as per client's requirement in a professional manner.

Customer wanted to deploy New Backup appliance with additional FC / 25 Gig LAN Ports and grate disk size in existing backup environment. They want all client backup to use FC or 25Gig LAN connection for backup and restoration activity.

The Solution in Action

The technologies incorporated within Backup application like VMware Protection, Database Protection, Accelerator backup option and appliance (74TB) side deduplication, compression and encryption. NDMP backup with Accelerator helped Bank to protect their system which is very critical to them, all high level production and manufacturing data are getting generating on this system.

At First stage, backup will be done at primary storage (MSDP of Appliance).Secondly, after backup it will duplicate on tape.

Benefits

Recovery Point Objective and Recovery Time Objective are two of the most important parameters of a disaster recovery or data protection plan. These are objectives which can guide Bank to choose an optimal data backup plan.

Backup Application/Appliance help Bank to archiving there RPOs and RTOs in terms of data availability

Key Benefits of Backup Application and Appliance to Bank

- Backup with accelerator helps to protect Production and Database Data which is very critical to them. Accelerator provides full backups at the cost of an incremental backup.
- Database Serve (SAP, SQL and Oracle) which has business critical data are protected by Backup application agent.
- Backup Appliance is a deduplication appliance which only send the unique data segments. Its help to complete backup 50% faster and it also use less bandwidth and system resources during duplication / replication.

Key Features of Backup Application

- Accelerator – Up to 50% faster backups.
- Supports major databases such as Oracle, SAP, HANA, My-SQL and Microsoft SQL etc.
- Hardened Security – Secure communications and improved encryption options for MSDP storage
- Granular VMware backup and recovery – Select virtual drives with a new recovery UI.
- Intelligent Data Deduplication and Auto Image Replication (AIR).
- Instant Recovery for VMware.
- Data Integration API.
- OpsCenter is a web-based monitoring and analysis tool that looks at a customer's backup operations. It provides reports to help track the effectiveness of backups, service usage and expenditures.