

Helped the largest E-Commerce based metal trading site consolidate multiple backup across regions

Our customer is an E-Commerce based trading site for metals and nonmetals.

Being an E-Commerce site, they were heavily dependent on their applications and their networks for support of the business. The customer had multiple environments running simultaneously and each environment had its own physical backups, some backups were on single tape drives attached to some physical servers. They also had a multitude of data bases ranging from IBM DB2 to Oracle and Microsoft SQL.

Customer wanted to consolidate all the backups from multiple locations and across multiple databases and operating systems on to a setup which was located at the Central data Centre and replicated at the DR site.

Company Overview

Largest online platform for selling steel in India.

Over 2 lakh active suppliers in industries

In-house cloud-based procurement platform, 20 years of category experience, and 70000+ supplier database.

IT Environment

Multiple IT environments with its own physical backup

Databases ranging from IBM DB2 to Oracle and Microsoft SQL.

Heavily dependent on their applications and their networks



CHALLENGES



Backups at individual locations were not policy based.



Lack of backup catalogue, so recovery of data was time consuming



The entire backup was done on individual drives attached to the local servers. Recovery of data on another machine was a challenge

SOLUTIONS



Replication capabilities across multiple sites



Backup of running / live database



Data was consolidated from multiple tables across locations and brought on to a single tape drive library

IMPACT



Unified view for the entire backup.



Multiple copies created- one at the DC, one at the DR and one for offsite vaulting



Backup catalogued on the DB2 database of the IBM spectrum

Case Study | Cloud Backup Management

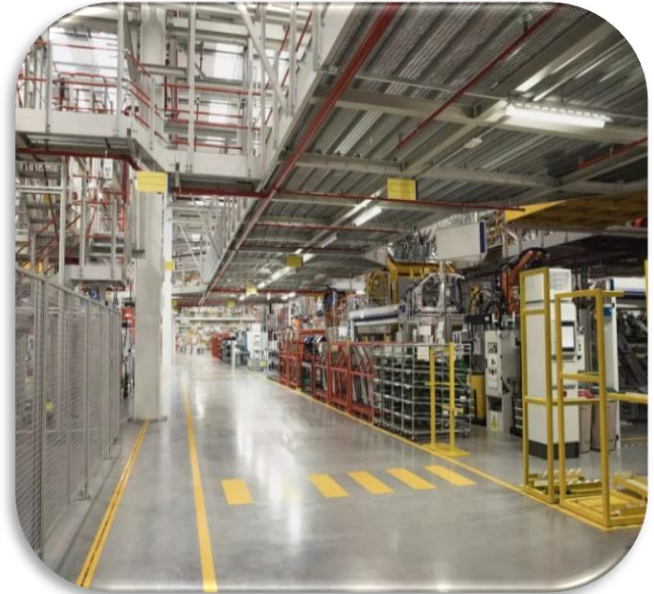
CONSOLIDATE MULTIPLE BACKUP ACROSS REGIONS ON CLOUD PLATFORM

Since this is an e Marketplace they had to be operational 24 hours of the day. Getting a shutdown to implement a policy based live application back-up became a key challenge. Since the policies that are implemented also need to be tested for their effectiveness.

Secondly, customer wanted to first consolidate their backups onto centralized setup and then replicate data to the DR site.

Customer did not have an automated library to do backup. So first we had to get them to identify the size of the library, the number of arms and bays so that the centralized backup strategy could be effectively implemented.

Bandwidth between locations and identifying load distribution on the leased lines, so that the business is least impacted. So dynamic backup windows for different application were



CHOOSING THE RIGHT SOLUTION AND MEETING THE DEADLINES

DCM broke down challenge into multiple small pieces of:

- Sizing the data from each location
- Amount of backup copies needed
- Load patterns on the leased lines
- Number of live backups and number of file level backups
- RPO /RTO of each application based on the criticality of the business.

Since the customer already was an IBM enterprise account, we suggested IBM spectrum protect as a consolidation tool because Spectrum not only has live application database backup capabilities it also does live backup of SAP and has replication capabilities to replicate along across multiple sites.

- Backup of running / live database
- Live backup of SAP.
- Replication capabilities across multiple sites

Since the customer had to back up 12 DB2 data bases, Microsoft SQL databases, 14 production Oracle database, and one lotus notes databases, we had to install agents for each of these applications on the remote servers. Each of these applications had to be backed up live.

Around 25 client servers with IBM AIX and Windows were configured for file level backup while the SAP was configured on three servers for online backup.

Next all the data was consolidated from multiple tables across locations and brought on to a single tape drive library. All the backups were automated and scheduled as per the customer's requirements. Customer wanted one copy to be kept onsite while another copy to be for offsite storage.

The backup policy was also designed to replicate data to a DR site with a similar library at the DR site also. The whole project was executed within 3 months across the locations and today any recovery across multiple locations can happen within a matter of hours RTO are consistently being met.

The cost of implementation was low as it was executed from DCM NOC. However, it was done faster as it can be scheduled at anytime of the day based on the server availability.