

IT Valley

TSM Managed services

Customer pain points of data backup

IBM Tivoli Storage Manager works to alleviate customers' storage management concerns, including:

- Business impact of unsecured and unrecoverable data in the event of a disaster
- Increasing time and cost of data and application protection and disaster recovery
- Need to provide near continuous data availability, while enabling comprehensive and accurate recovery
- The volume of data that has to be managed and protected is growing at unmanageable levels without the use of highly automated, autonomic-like tools
- Complexity due to the proliferation of heterogeneous storage environments caused by consolidation of business, servers, and storage
- Shortage of skilled people resources which demands that highly automated tools be deployed to allow consistent practices across platforms, minimize human error, and improve the amount of storage a single storage administrator can handle

Meeting service-level objectives and providing near continuous availability by reducing the amount of data and time it takes to perform backup while enabling comprehensive and accurate recovery

Features

TSM provides enterprises with these key features:

- Robust protection of customers' data assets.
- Centralized backup and archiving of data networked throughout an organization.
- Automated backup-restore and archive-retrieve of the data from more than a dozen different platforms.
- Policy-based disaster preparation, planning, and recovery to control storage costs efficiently.
- Efficient Data archiving capability.
- Online "hot" data protection of the most popular business-critical applications.
- Improved performance for TSM clients via online image backups, providing fast restores and backups with little or no disruption.
- Cyclic redundancy checking capability between the TSM server and client, providing a higher level of data integrity.
- A health monitor showing status of scheduled events, database and recovery log.
- Calendar-based scheduling to increase flexibility.

TSM benefits

- Centralized Storage Management that helps reduce administration costs.
- Ability to utilize SAN technology to offload the production network and reduce overall IP traffic.
- Ability to reduce the time required for data backups.
- One of the industry's fastest recovery times.
- Optional automated space management data file migration (Hierarchical Storage Management, or HSM).
- High-speed, policy-based disaster recovery for business continuance.
- Ability to write to on-site and off-site pools concurrently.
- Ability to add optional data protection for popular e-mail, databases, and ERP applications

TSM highlights

- Backs-up and restores data using multiple techniques to reduce the total time required.
 - Prepares for, and recovers from disasters by maintaining an additional copy of active data for safekeeping at an off-site location.
 - Archives and retrieves data by moving inactive data to offline storage, freeing up online disk space for more important active data.
 - Automatically removes data from online storage to offline storage via Hierarchical Storage Management (HSM), leaving an online data-stub for easy access of the offline data.
- Provides 24x365 application protection, working with popular applications to control the time and method by which a data transfer to offline storage occurs

In IT Valley What we can do:

1-Gathering information and checking Hardware and software prerequisites and Planning for deployment

2-Installing Tivoli Storage manager server and configuration

- Install and verify the IBM Tivoli Storage Manager Server
- Install and verify Integrated solution console and Administration Center
- Define storage pools
- Define volumes on storage pools
- Monitor storage pools
- Define a policy domain
- Define a policy set
- Define a management class
- Assign a default management class
- Validate and activate a policy set
- Define the Database Volume to TSM

- Mirror the Database

3- Installing IBM Tivoli Storage manager clients Install and verify the backup- archive client

- Install and verify the administrative Command Line Client
- Register Client nodes
- Configure client access to the server
- Control client access to the server
- Set up client options
- Use include/exclude to control client backup processing
- Create a schedule
- Define Association of client to schedule
- Monitor a schedule
- Obtaining information from schedule logs

4- Creating and configuring server maintenance script

- Create a device class for backing up the database
- Backup the database
- Perform an incremental backup of the database
- Query status of database backups
- Put the recovery log in roll forward mode
- Perform a backup of the storage pools

5- Installing IBM Tivoli Storage Manager for Database

- Tivoli Data Protection for Oracle
- Tivoli Data Protection for MS SQL
- Tivoli Data Protection for Informix

6- Installing IBM Tivoli Storage Manager for Mail

- Tivoli Data Protection for Exchange
- Tivoli Data Protection for Domino

7- Configuring TSM to Backup DB2

8- Tune your TSM server in order to enhance its performance