

Module 10: Exercise on Backup and Recovery

Business Profile:

An organization uses tape as their primary backup storage media for their applications.

Current Situation:

- Full backup is performed on every Sunday and incremental backups are performed from Monday to Saturday.
- Their database has to be shut down during the backup process.
- Multiple redundant copies of backup data
- Network bandwidth constraint

Requirements:

- Eliminate the need to shutdown the database for backup
- Need faster backup and restore
- Eliminate redundant copies of backup data

Task:

Propose a backup and recovery solution to address the organization's concern and justify your solution.

Solution:

The solution should have the following elements:

- Use open-file agents to perform online backup to avoid database shutdown during backup.
- Implement backup-to-disk to improve backup and restore speed.
- Implement source-based data deduplication technology to eliminate redundant copies in backup environment. This will also reduce network bandwidth and storage space requirements.