# Data recovery and Backup concepts - IBPS SO

Published on Sunday, January 29, 2017



Hi Folks,

We will take up another important topic for specialist officer's exam today i.e data recovery and back up. We will briefly learn about the terms, concepts and utilities used for that purpose. Doubts can be raised in comments section.

#### **Full Backup**

In this, you back up full copy of your data set. Thought they provide best protection but they are very time consuming and required a large no. of tapes or disks.

### **Incremental Backup**

In this, you backup the data that has changed since previous back up. Obviously it takes less time than full back up.

## **Differential Backup**

It starts with a full backup and subsequent backups contain data that has changed. So it contains all the data that has changed since last FULL BACKUP.

## Flat Backup

It is a method for using snapshots to protect data without using traditional backup software. Advantages of flat backup are simplicity and low cost since no backup servers are required. Storage Snapshots is a set of reference markers for data at a particular point in time. Snapshots provide easier and quicker access to data.

# **Backup Site**

Backup site is a place where the business can continue after a data loss event.

#### **Backup Window**

It is the period of time for which a system of available to perform a backup operation. To mitigate the effects of system failure in an emergency situation, backup windows are provided to users.

## **Disaster Recovery**

The process of recovering and restoring data after a business disaster. 3 imp	ortant
recovery phases are as below:	
Phase 1 - Move operations to a backup site or emergency operations center.	
Phase 2 - Recover critical business functions, applications and network conr	nectivity.
Phase 3 - Move operations back to primary facility	
Disk Cloning	
It is the process of copying the contents of one hard disk to another or to an	image
file.	
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Hot Backup	
пот васкир	
Its a backup of database that is still running. Due to that changes may be mathe data while it is being backed up.	de to
Cold Backup	
Cota Backup	
Its a backup when the database is offline i.e not accessible to update. Some unix utilities that can be used for a cold backup are cipo, tar, dd, fbackup.	of the
Multiplexing	
Muttiplexing	
It is a process of combining multiple data backup streams into a single stream is written to a single storage device. E.g. Backup of 3 PCs to a single tape.	m that
Multistreaming	
riutioti cui i i i	
It is a process of creating multiple data backup streams from a single stream stored into multiple storage devices. E.g. Backup data of a single database in tapes.	
Backup as a service (BaaS)	
backup as a service (baas)	
Its an approach where you purchase backup and recovery services from an odata backup provider. Similar to cloud approaches (Saas, Iaas, Paas) where purchase services from a cloud vendor for your work.	
Failback	
Failback is a process where in you restore operations to the primary facility a they had been shifted to a secondary facility during failover.	after
Hot Site	
aA hot site is an alternative disaster recovery service that allows a business continue operations in the event of a disaster. It has all the infrastructure ne company to continue operations including office space, furniture, telecommunication lines and computer equipment.	
Cold Site	
It is also a disaster recovery service that provides office space but the custom	mer has

## **Storage Virtualization**

It is a process of pooling physical storage from multiple network storage devices into what appears to be a single storage device that is managed from a central console.

## **Tiered Storage**

It is the assignment of different categories of data to various types of storage media to reduce total storage cost. These tiers can also have different levels of data protection based on if data is sensitive or not.