NIELIT GORAKHPUR

Backup and Restore

Restore / Recovery Process:

Restore process can recover system onto previous state. But it only possible after backup file created. Restore process call in critical condition like natural disaster, theft, and files or system crash. Recovery means retrieving the data and systems that were backed up; Restoring systems and data, which can take as little as a few minutes or many hours. For this, the system keeps a record of the changes, by transactions in the system, in a log file.

Comparison between Backup and Recovery

	Backup	Recovery
1	Backup is created time to time when system is in well stage.	Recovery will call only in critical (no well stage).
2	Backup not depends on recovery.	Recovery always depends on backup.
3	Backup process creates copy / image of file/ system in archive.	Recovery process can restore files from archive to original path or define path.
4	Backup need more space to store multiple copies of backup file.	Restore need high performance hardware to quickly restore system.
	Both are complementary of each other	

Strategies for recovery are the following:

1. Windows Recovery Console

The Microsoft Windows recovery console was first produced in Microsoft Windows 2000 and is available in all later versions of.Windows. This feature enables users to get to a mode that allows them to recover, change, or fix files or settings that may be causing their computer not to boot properly.

Below are some important things to remember when using the Microsoft Windows recovery console.

- You will need the Microsoft Windows administrator password.
- Before running the Windows recovery console, you will need, some experience using MS-DOS.
- You only have access to root directory and the Microsoft Windows or Winnt directory. This means you cannot open any other directory.
- You only have access to read from the floppy disk drive, DVD-ROM drive, or other disc drive. This means you cannot copy information from the hard disk drive to another drive for backup.
- To get into the Microsoft Windows recovery console, you must have a Microsoft Windows DVD or USB. Place the Windows' DVD or USB in your computer and boot from the bootable resource.
- To repair a .Windows XP installation using recovery console, press R.

- After getting to the Microsoft Windows recovery .Console, select the Windows installation, if you wish to edit the primary Windows installation.
- After selecting the installation, you will be prompted for the administrator password. Enter the password. If you do not know the Windows administrator password, you cannot enter the recovery mode.
- Finally, you will get a MS-DOS prompt similar to the MS-DOS shell window you get through Windows. You will also have access to many additional commands not found in standard MS-DOS mode.

2. **System Restore Tools**

Restore your system to a workable state without you having to reinstall the operating system and lose your data files in the process. System Restore takes snapshots of your computer system and saves them as restore points. These restore points mark configuration places to return to, in the event of a problem with your computer. Because the snapshots are taken automatically and are restored through the System Restore Wizard, System Restore is both effective and user-friendly.

System Restore automatically tracks changes to your computer and creates restore points before major changes take place; To create a restore point, System Restore takes a full snapshot of the registry and some dynamic system files.

For example, restore points are created before new device drivers, automatic updates, unsigned drivers, and some applications are installed. These healthy system check-points are created without prompting or intervention from the user the first time the computer is started after Windows OS is installed and, by default, on a daily basis after that. You can also manually create restore points.

When you use System Restore, you can revert to a saved state without losing personal data, including Word documents, e-mail settings and messages, and your Internet favorites list. System Restore won't lose any data you have stored in the My Documents, My Pictures, or My Music folders.

Exercise:

1: What is Restore Process in computer system?
2: What are important points to remember when using the Microsoft Windows recovery console?
3: What are the difference between Backup and Recovery?