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MyDrive

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Abstract: *In today's world, Information has been produced in huge amounts, requiring data recovery. The data our project is storing and accessing overthe internet instead of our hardware is also a web-based process where organizations are unified with the distribution of resources. Uploadeddata can be accessed anywhere using the internet. In case data got deleted it is easy to recover and backup, this is the main motive the title says itself "data recovery and backup using cloud".*

Keywords: Data Backup, Data Recovery, Cloud Computing, Disaster Recovery.

I. INTRODUCTION

Data backup and recovery is the process of backing up your data in the event of a loss and fixing a security system that allows you to recover your data as a result. Data backup requires the copying and archiving of computer data to make it accessible just in case of knowledge corruption or deletion. You'll be able to only recover data from an earlier time if you have backed it up. A recent Forrester report suggested that companies don't seem to be protecting their computer and remote offices sufficiently, and therefore the traditional tape backup scenario is vulnerable to plenty of catastrophes like loss of tapes because of theft or simply plain data loss. A Gartner study even noted that companies with dozens or many remote servers frequently delegated remote backup responsibility to non-IT professionals.

My drive is a cloud-based storage solution that allows you to save files online and access them anywhere from any smartphone, tablet, or computer. Using a cloud storage service like My drive has plenty of advantages, such as easier file sharing and having a remote location to back up your files. MyDrive gives you the power to upload and save — documents, photos, audio, and videos — to Google servers, or the "cloud." Drive can serve as a backup solution, or as a way to free up space on your device.

II. LITERATURE REVIEW

The following section explains the survey of various papers regarding this concern. Different methods that have been proposed for having data backup for cloud computing are given below.

2.1 Strategies for Data Recovery and Backup using Cloud Computing

Ms.Kruti Sharma has proposed a Seed Block Algorithm Architecture (SBA) and suggested a distant backup server. The remote backup server could be a replica of the initial cloud server which is physically situated at a far-off location. This method is predicated on the concept of digital computing exclusive-OR (XOR) operation. The entire machine consists of three main parts 1. The Main cloud server 2. Clients of the cloud and three. The Remote Server. The SBA uses a random number and a novel client id related to each client.

Whenever a replacement Client is registered with the cloud its unique client ID gets XOR with a random number. The result This XOR operation is termed a Seed Block which is ready to be used only for that individual client. Whenever a client stores any Data in the Cloud, it's saved in Cloud and at the same time, it's XO Red with its Seed Block and also the resultant Data' is stored within the remote server. If any accidental data loss occurs within the foremost Cloud then in such cases the initial Data is recovered by XO Ring the data with the Seed Block of that exact client to induce Data'' i.e. the first Data File this method is fully capable of recovering the knowledge files accurately in any data loss situation also at the identical Time maintains data integrity. The disadvantage of this method is that it's inefficient because the knowledge files on the remote server use the identical space as within the foremost Cloud so in this fashion there is a waste of space for Storing. The cabinet space within the Remote Server is commonly reduced by applying compression techniques to understand high efficiency. Chi-won Song, Sungmin Park, Dong-Wook Kim, and Sooyong Kang, have proposed a singular

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data recovery service framework for the cloud bottom of Form Structure, the Equality Cloud Service (PCS) provides a sequestration-defended particular data recovery service. In this, the proposed frame stoner data is not needed to be uploaded to the garcon for data recovery. All the needed garcon Side Coffers that give the recovery services are within an affordable bound. The benefits of Equality Cloud Service are that it provides a dependable data recovery at a coffee cost but the disadvantage is that its perpetration complexity is advanced. Vijay Kumar Javaraiah introduced a medium for online data backup fashion for the pall together with Disaster Recovery. During this approach, the value of getting the backup for the Cloud platform has been reduced, and also, it protects data from disaster at the identical time as the system of migration from one pall service provider to a Different becomes easier and much simpler. During this approach, the consumers' do not feel to be addicted to the Service Provider and it also Eliminates the Associated data recovery cost. A straightforward tackle box is employed that achieves these at little cost.

III. FEATURES

MyDrive gives you the power to upload and save a range of file types — documents, photos, audio, and videos — to Google servers, or the "cloud.

- **Multiple Device Backup:** Back up unlimited PCs, Macs, iPhones, iPad, and Android devices into a single account.
- **Manage Computer:** Web-based consoles help manage data backups, restores, application settings, and more, on remote computers.
- **Stay Informed:** Activity report, backup status report, share report-all keep you informed.
- **True Archiving:** No data is deleted from the drive online account until you manually delete or run archive cleanup to match your computer data to your account
- **Accessing Files from Anywhere:** Files can be accessed from any smartphone, tablet, or computer.
- **Cost Saving:** Smart business owners saw the advantages of offsite storage but most small and medium businesses simply couldn't afford it. But the price is no longer a problem. With our cloud storage solutions, you can save a major chunk of expenses in the backup.
- **Scalability:** We aim that users can access and manage their data anytime on any device via the Internet. Simple, automated, and secure backup ensures business continuity and rapid recovery of individual files, full applications, or entire data centers. The data and applications on a business's servers are backed up and stored on a remote server. As your business grows, your backup storage increases, and cloud-based backup increasing or decreasing your storage capacity has never been easier.
- **Security:** Legacy backups are prone to damage, theft, or disaster. Siberian's online cloud backup solutions store your data across the globe through redundant, encrypted, and secure technologies

3.1 Getting Started

1. To get started with My drive, you'll need to make a google account, if you don't already have one.
2. Once you've signed up for an account (or sign in to an existing account), you can access My Drive in your browser. This will bring you to Drive's web interface, which is fairly intuitive and easy to navigate.
3. To access files on My Drive, you'll need to upload them. There are two ways you can upload files from the web client, and they're both straightforward. Click on the "New" button on the top-left side of the screen and select either "File upload" or "Folder upload."
4. Once you have enough files, you may want to organize them. Much like organizing files on your desktop, the easiest way to manage your Drive is to create folders. To create a new folder on the web interface, navigate to your Drive and click "New," then "Folder. After you name your folder, you'll be able to drag and drop files to the folder, which can be found under "My Drive" on the pane to the left of your screen. If you no longer need a file and want to keep your Drive tidy, the easiest way to delete a file is to right-click on the file. This will bring up a context menu. From there, select "Remove." Alternatively, you can select the file you want to delete and then click the trash icon on the upper-right-hand corner of your screen.

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IV. CONCLUSION

My drive is one of the fantastic systems to store large data. When it has a large or growing amount of digital files, it becomes difficult to manage an entire library of files without a dedicated storage system. Therefore, it only makes sense to implement a drive when you notice your data storage needs are growing. It uses clever cloud technology, which means that your data is stored on one of Google's servers so you can access it from anywhere in the world.

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