**Understanding data resilience**

**What is data resilience?**

Data resilience is the ability or potential of an organization to make sure the continuity of the business stays, given any problematic or unexpected upsetting. It supports and provides an automated technique that regulates securing of data and protection and provides centralized and standard visibility and management across different workloads and locations. When data is secure enough, it can’t be used or changed by any entities that are not authorized.

The main concept behind data resilience is that, when some particular data in a specific location and condition becomes or is inaccessible, availability is improved when multiple copies of data are stored in multiple locations. Users and applications are still able to access data so long as they are directed to a secondary location where the said data is not compromised. Ultimately, to ensure data resiliency, organizations should secure data in several different locations. When data from one particular location fails, a redundant copy of the same data from a different location takes over comfortably, thereby allowing users and application software to keep on continuing undisrupted operations.

**What factors impact data resilience?**

Many factors influence and impact data resilience. Some of them are as follows.

1)Data resilience is influenced by the overall design of the system, including the use of redundant components.

2)The next influencing component in the case of data resilience is the overall architecture of the system, including the way data is distributed and stored.

3)Data resilience is impacted by the management of the system, including the procedures for handling outages.

The goal of data resilience is to ensure that the data is available when it is needed, even in the face of unexpected events. To achieve this, it is important to have a comprehensive understanding of the factors that can affect data availability and to have processes in place to address them.

**What measures can be taken to strengthen data resilience?**

Among many technical conditions that are needed to consider in specific situations, some few commonalities to track along the road are the following, keeping in mind the application side of the whole scenario varies from case to case :

1. Conduct routine backups of the data to an offsite location.

2. Using a password manager to create and store strong passwords for all online accounts.

3. Installing a good antivirus and malware removal program on the computer and keeping it up-to-date.

4. Staying vigilant about clicking on links and opening files from unknown sources.

5. Enabling two-factor authentication on online accounts whenever possible.

6. Regular updating of software and apps to the latest versions to ensure the best possible security.

7. Installing a firewall in the computer and using it to restrict access to only the trustable programs and websites

8. Deleting browsing history and cookies after each session.

9. Regularly scan computers for viruses and malware and fix any issues that are found.

10. Staying informed about the latest security threats and how to protect yourself from them.

**Conclusion :**

The way data resiliency shapes the society we see today is the way it helps protect our data. By having this capability, it allows companies and the government to protect individual's data from being compromised or lost. This, in turn, helps to keep our society functioning and secure.

**References**

1.<https://www.techopedia.com/definition/34762/data-resilience#:~:text=in%20Data%20Resilience-,What%20Does%20Data%20Resilience%20Mean%3F,across%20all%20workloads%20and%20locations>.

2.<https://www.ibm.com/docs/ssw_ibm_i_73/rzarj/rzarjhacompdatares.htm>

3.<https://www.techslang.com/definition/what-is-data-resilience/>

4.<https://spectralogic.com/2021/06/10/data-resiliency-what-you-need-to-know-blog/>

5.<https://www.druva.com/blog/what-is-data-resiliency-and-why-does-it-matter/>

6.<https://techcrunch.com/sponsor/druva/data-resilience-a-key-pillar-to-business-success/>

7.<https://www.freeitdata.com/examining-data-resilience-for-business/>