PARSHWANATH CHARITABLE TRUST'S



A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Semester :	VI

Subject : CSS

Academic Year: 2023-2024

DATABASE SECURITY ATTACKS REQUIREMENTS:

There are 10 dalabase security best practices that can assist you in enhancing the security of your sensitive data

(1) Put physical dalabase security in place:

Physical attacks by outsiders or even threats from within might affect servers or dala carters.

Stru these attacks can evade digital security systems, it is challenging to identify them without additional protection measures

Make sure the provider you choose for web hosting has a reputation for treating security issues seriously.

(2) Two distinct database servers:

Keep your database servers apart from other systems to reduce these security threats. Use realtime security information and Event monitoring (SEPM), which is dedicated to database security and enables enterprises to respond quickly in the case of breach attempt.

(3) Configure a proxy server using HTTPs: Set up an HTTPs server, however if you are working with sensitive data like passwords, financial information or personal delà. In this matter, manner, you gain an additional degree of security because the data passing via the proxy server is likewise encrypted.

(4) Prevent wilizing standard network ports: It is a good practise of using new ports because Subject Incharge: Prof. Sarala Mary Page No. 4 Department of CSE-Data Science | APSIT



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Semester : VI Subject : ____ C & 2 Academic Year: 2023-2024 attackers always try to attack the elefaut pools To make sure the new port isn't already in use for other services, check-the

Internet Assigned Number Authority's post register before iesuing a new post

(5) Employ real-time dalabase surveillence:

The security is strengthened when dalabase is

actively examined for attempted breaches.

All actions performed on the database server can be tracked using monitoring software such as Tripwire's realtime File Integrity Monitoring (FIM) which can also notify you of any breaches.

(6) Employ firewalls for databases and web applications:

Install forewall to safeguard the database from many attack rectors : Configure the firewall properly to close any security gaps.

(7) Implement dala encryption methods:

Encryption secures your data from the attackers.

(8) Frequently backup your database.

Frequently make backups of your database. This reduces the chance that private data will be comprised or lost because of malicious activity. Make sure the backup data is encrypted and kept on different server to further boos security

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(9) Maintain application updates:

All the applications has to be updated every now and then.

(10) Make use of reliable uses authentication:

Most current analysis from Venzon indicates that passwords are stolen in 80% of data breaches. To avoid this set up a multi-factor authentication procedure to address this problem and increase database security Restrict dalabase acress to only verified IP address.