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(57) Abstract :

The present disclosure relates to A system (100) and method aim to bolster the security of a database within a directory service. The system comprises a deceptive data element generator (110) that introduces deceptive data elements to the database, and a misleading information generator (120) to modify directory structures with misleading data. A deceptive access control module (130) implements genuine-appearing, misleading access controls. Simultaneously, an alert and monitoring mechanism (140) identifies interactions with these deceptive elements, sending alerts to administrators. To address evolving cyber threats, a dynamic adaptation module adjusts the deceptive elements using real-time data, threat intelligence, and user behavior. The corresponding method encompasses introducing false user accounts, altering database structures, and setting deceptive permissions that trigger alerts upon unauthorized access. The system and method strategically employ deception to confound potential attackers, enhancing database security in directory services.

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