ATTACK AWARE INTEGRITY CONTROL IN DATABASES (INVITED ABSTRACT)

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Abstract: Traditional database integrity control is focused on handling integrity constraint violations caused by failures and operator mistakes. However, as there are more and more malicious attacks on database systems, the traditional integrity control concept becomes too narrow to handle data integrity degradation caused by malicious attacks. In this talk, we present a framework of attack-aware database integrity control, where the concept of attack-aware integrity is investigated, a set of new integrity control problems are identified and the corresponding solutions are explored.

Key words: Database integrity; attack-aware integrity.