

عنوان مقاله:

Rainbow Table TMTO Attack Optimization Considering Online Sequential Search Time

محل انتشار:

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خلاصه مقاله:

In this paper, we propose an optimized parameter selection procedure for rainbow table TimeMemory Trade-Off (TMTO) attack with sequential online search. Unlike previous works that mainly deal with minimizing required memory in the rainbow table TMTO attack, we simultaneously focus on the required memory and online search time. Our parameter selection technique is optimized regarding the minimization of the required memory subject to a certain success probability and a maximum online search time. Obtained results are two compact mathematical expressions for determining rainbow table TMTO attack parameters, number and length of chains. The application of our optimized parameter selection procedure is also shown in a sample example.

کلمات کلیدی:

Time-Memory Trade-Off (TMTO) Attack; Online Search; Constrained Optimization; Cardano Cubic Formulas

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