Network Management by Tackling Replication Attacks: A Comparative Study

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Abstract

Network is an interaction or engaging in formal or informal communication among systems to exchange information by mutual assistance or support. The sharing of resources helps the users on the network to communicate with each other. Node in a wireless sensor network that is capable of performance handling, gathering information and communicating with other connected nodes in the network are called sensor nodes. Sensor nodes, despite of having limited resources are useful in many applications. Wireless sensor networks have become an intensive research area where the security is of concern. An adversary can capture a node with a very little effort, analyze and replicate them easily. If a node is captured, an adversary reprograms it and replicate into larger number of clones, thus disrupts the entire network. Security is the most important criteria for senor networks. Various approaches are proposed for effective management of replication attacks. This paper thus shows the different approaches involved in detection of replicated nodes in mobile sensor networks and comparison of the methods involved and hitches of the previous approaches.
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Index Terms

Computer Science

Networks

Keywords

WSN  MSN  Adversary  Replica