Abstract

Nowadays networks require flexible dynamic group communication with the internet. When we develop these systems on multicast communication framework, various types of security threat occurs. As a result construction of secure group communication that protects users from intrusion and eavesdropping are very important. In this paper, we propose an efficient key distribution method for a secure group communication over multicast communication framework. In this method, we use IP multicast mechanism to shortest rekeying time to minimize adverse effect on communication. In addition, we introduce proxy mechanism for replies from group members to the group manager to reduce traffic generated by rekeying. We define a new type of batching technique for rekeying in which new key is generated for both
leaving and joining member. The rekeying assumption waits for 30 sec so that number
time’s key generation will be reduced.

References

Reducing Overhead on Double Rekeying in Secure Group Communication


Index Terms

- Computer Science
- Egovernance And Cloud

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Computing Services

Keywords
Ip Secure Communication Re-key