Security Issues in Mobile Agents

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Abstract

Software security to protect mobile agent consists of lots of aspects like cryptography, access control and trust management, intrusion detection and tamper resistance, authentication and privacy, signature schemes, e-commerce, security analysis, mobile computing security etc. So, to design and develop security mechanisms for mobile agents against malicious hosts this paper identifies different kinds of attacks and relationships between them. Security objectives and requirements are analyzed with security measures taken to protect mobile code, state and data.

Reference

- "Designing Autonomous Agents, pgs 49-70, The MIT
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- Ma, L., and Tsai, J. J. P., “Attacks and countermeasures in software system security,” Handbook of Software Engineering and Knowledge Engineering


Index Terms

Computer Science

Network Security

Key words

Cryptography

access control

trust management

intrusion detection

authentication

privacy

signature schemes

e-commerce