Abstract

The www and related technologies have made multi domain collaborations a reality. Collaborations enable processes to effectively share resources; it introduces several security and privacy challenges. Managing security and efficient exchange of information is even more challenging. In this paper, we propose a distributed secure frame work between Byzantine processes (nodes) in order to predict and resolve the functionalities of communication errors in collaboration environments. We introduce the idea of secure paths, which enables the front-end
clients (e.g. Web browsers) that invoke application servers (e.g. web servers) to access the back-end databases when an end-user interacts. We present a cryptographic protocol for ensuring secure and timely availability of the data of a peer to other peers. Furthermore, we present an on-demand path discovery that enable peers to securely discover paths in the collaboration environment.

Reference


Index Terms

Computer Science Security
Key words

Secure paths
Security
distributed systems
collaboration environment