Abstract

Demand on video traffic over mobile network is increasing in year on year basis, wireless link capacity cannot satisfying the traffic requirement. The difference in the traffic demand and the link capacity with varying link conditions results in poor quality of videos such as intermittent disruptions and long buffering time over mobile networks. Due to such environments, we propose a new mobile video streaming and sharing system, which efficiently stores videos on the cloud (VC) and construct agent (subVC) for each mobile user at client side to offer "non-terminating" video streaming. And also proposed system will monitor the social network communication among mobile users and their private agent prefetch videos in advance according to social activities. The security of videos and private data of user is provided by using AES algorithm and secure key exchange by using Diffie Hellman Key Exchange algorithm.

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Index Terms

Computer Science

Security

Keywords

Social activities  Prefetching  Video streaming  Encryption  Decryption  cloud Computing.