

# **Distributed Authentication Using Public Key Cryptography**

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## **Abstract**

*In distributed Authentication between clients and servers using public key cryptography approach, both client and server do not need to maintain keys with Key Distribution Center (KDC). Maintaining keys at the server may cause the burden at the server. This paper is intended to present and develop a system which uses an approach for distributed authentication using public key cryptography using three main components: Key Distribution Center(KDC), Ticket Granting Server( TGS) and Certificate Authority(CA) , for creating tickets as long lived credential authentication. In this system, Certificate Authority (CA) will distribute Certification Revocation Lists(CRL) to all application servers, so it will significantly reduce the workload at the server(CA) and increase the performance of the whole system.*