In this paper, the new algorithm named Key Factor Authentication and Access Control (KFAAC) is used to ensure the security and access control of cloud services from the clients. Cloud and Web services becoming more popular in recent days. Instead of using offline applications peoples intended to use online applications and services with updated features with recent crisis. Providing best services to the client is becoming a major role for cloud service providers. In the same time better access restriction and authentication policy should be preserved. This proposed system Key Factor Authentication and Access Control provide better access security for the cloud clients. It uses Key Encryption Scheme to validate client to ensure their uniqueness. KFA is implemented and tested under cloud environment and it shows better access control and security.

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Access Control, Web services, Cloud Security, DES encryption, privacy preserving authentication, Cloud Service security.