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(57) Abstract :

The present disclosure generally relates to a secure remote access system 100 based on three-factor authentication involves the integration of various technologies, protocols, and security practices. The system 100 consists of a network 116, a server 106, and clients 118. The server 106 receives login requests from the client 118 and uses three-factor authentication, which entails a password, a token, and a biometric data, to confirm the client's identity. A secure communication channel is also included in the system 100 for data transmission between the server 106 and the client 118. By requesting several authentication methods from client before granting access, the system 100 adds an extra layer of protection to the network 116. The system 100 requires expertise in network security, encryption, access control, user management, and authentication protocols to design and deploy a robust solution that safeguards sensitive data and resources from unauthorized access.

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