Abstract

Information security in the banking sector is heavily controlled as banks store and manage their clients' private information. Information security has always been the responsibility of the information technology (IT) department in organizations. Banks have become a component of the internet and daily lives. It is a real task to protect these bank procedures, systems from the attackers and minimize the security threats. With this Cyber-attacks increasing day by day, and this is the challenge facing by countries and organizations like banking where data is critical. These banks should be built networks using secure strategies to protect their components. However, the performance of the network is affected by applying security rules. Network security is an essential priority for protecting applications, data, and network resources. Applying resource isolation rules are very important to prevent any possible attack. This isolation can be achieved by applying the DMZ (Demilitarized Zone) design. A DMZ extremely enhances the security of a network. In this paper perimeter network security framework is proposed to the protection and minimize the cybersecurity issue that exists in Libyan banks effectively.
References


Index Terms

Computer Science

Security

Keywords

Keywords: Information Security, DMZ, Firewall, Network Security, Network Performance, OpNet, perimeter defense.