



## **ABSTRACT**

The growth of networking in business and the amount of information that is transmitted through them, has made them vulnerable to a number of attacks that can suffer through communication of the computers in your perimeter network, which is gaining experience the user with technology, knowledge and data manipulation makes them more insecure, so it is proposed to provide network services such as: mail service, firewall, proxy, intrusion detection and vulnerability scanning using free software tools to maintain confidentiality, integrity and availability of information. Using the Top-Down Network Design methodology aims to determine which applications are made and how those applications behave in the network, for this process to link the business needs to technology dis-wearable to form a system to ensure success of the organization. You must perform the appropriate con-figurations to optimize the functionality of services implemented in a servi-tor, making the respective verification testing and commissioning production.

**KEYWORDS:**      **CORREO**  
                         **FIREWALL**  
                         **PROXY**  
                         **FREE SOFTWARE**  
                         **TOP-DOWN NETWORK DESIGN.**