Abstract

Enterprise Local Area Networks (ELANs) have been expanding following an increase in the number of staff which necessitates establishment of new offices. However, reliability and security of services provided by ELANs need to be ensured at all times to meet expectations of users. In this paper, the network security holes existing within the ELANs were investigated. Vulnerabilities and threats were critically examined in one of the ELANs. It was observed that known vulnerabilities were still around within the network. Based on the findings, the paper suggests that all software used in the networking devices need to be updated; unneeded open ports need to be closed; cache servers and security policy need to be implemented. The suggestions will ensure stability of the network during scaling out as the number of staff continues to grow.
Network Security Analysis in the Enterprise LANS

- Cornwall, H. 1985. The hacker's handbook, Century Communications Ltd, Portland House, 12-13 Greek Street, London W1V 5LE.

**Index Terms**

Computer Science

Networks
Keywords
Network security analysis  Network Security  Network Vulnerability