Abstract

Today’s universities are on the forefront of technological advancement which makes University’s computing environment particularly vulnerable because in contrast to hacking targets like banks and others, college and university computing environments are often large open networks. This paper assessed the security threats evolve specifically in University’s information technology environment; and proposes risk management framework for University computing environment, to guide security and risk executives through the process of network security management. The proposed model lower the risk of security breach by supporting three phase activities; the first phase identified the threats and vulnerabilities in order to know the weak point in educational environment, the second phase focuses on the highest risk which means it prioritize what matters most and create actionable remediation plan, the third phase of risk assessment model recognizes the vulnerability management compliance requirement in order to improve organization’s security position. The proposed framework can be applied to any higher educational organization or University’s IT environments; it enables Universities to stay a step ahead of security threats and also to get more value from their security budget, by
focusing on critical assets that are truly at risk

References


Index Terms

Computer Science  Security
Keywords

CVSS; security risk; security threats; university campus network; vulnerability