Sudan University of Science and Technology
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Effectiveness of Information Security Policies in some Public Sector

فعالية سياسة أمن المعلومات في بعض القطاعات العامة

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DEDICATION

I would like to take this opportunity to express my deepest thanks and lovingly dedicate this work to: To my parents, my priceless Mother:Huda Hashim and non-repetitive father :Mohammed Osman thanks for getting me to the world, helping me to be the woman I am today, fixing my mistakes, and guiding me to the path I have taken

I would especially like to thank my father and my husband who always pushed and supported me to get the Master's degree, and they have given me the drive and discipline to tackle any task with enthusiasm and determination.

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Abstract

This study focuses on the issue of the effectiveness of information security policy and procedure in the public sector in Sudan. The objectives of it are to develop the effectiveness of information security policies and applications at the public sector entities. Correspondingly, the analysis that uses of mix methods was held with those in charge for their organization's information security and design specials code work to develop a system to help monitor networks and regularly evaluate the security policy of the institutions. These interviews and survey discussed how the organizations selected the counter-measures. The two most significant issues found in this research to avoid lack of information security policies framework have been identified as one of the main factors that contribute to the slow progress in the implementation of information security measures in institutions and management commitment and lack of employees' understanding of information security. The scope and content of an effective security policy vary greatly depending on the nature of the organization activities, for which it was prepared. Principles, which remain useful regardless of the volume of the organization to which they apply, receive attention. Whatever the volume of an organization, and whatever its present situation of information security overall policy, there is always objective behind for a salutary check of existing policy and proceedings. The research finds that the main problem of the information security policies in the public sector in Sudan is the review, development and enforcement of a documented policy of each institution. Accordingly, the code was developed to help the monitor and regularly evaluate and develop the security policy of the institution.

المستخلص

تركز هذه الدراسة على مسألة فعالية سياسة أمن المعلومات وإجراءاتها في القطاع العام في السودان. الهدف من هذا البحث تقييم فعالية سياسات أمن المعلومات وتطبيقها في القطاع العام. للوصول إلى هذا الهدف ، تم إجراء مسح باستخدام الاستبيانات والمقابلة مع المسؤولين عن أمن معلومات منظمتهم. وحيت تم تصميم كود يعمل علي مراقبة الشبكات وتقييم سياسات المعلومات التامينية للمؤسسات في اطار الشبكة وتطويرها بانتظام . ناقشت هذه المقابلات والمسح كيفية اختيار المنظمات للتدابير المضادة ، وقد تم تحديد أهم قضيتين تم العثور عليهما في هذا البحث لتجنب عدم وجود إطار لسياسات أمن المعلومات كواحد من العوامل الرئيسية التي تساهم في بطء التقدم في تنفيذ إجراءات أمن المعلومات في المؤسسات والالتزام الإداري ونقص فهم الموظفين لأمن المعلومات. سيختلف نطاق ومضمون سياسة الأمن الفعالة اختلافًا كبيرًا اعتمادًا على طبيعة أنشطة المؤسسة التي تم إعدادها من أجلها. المبادئ التي ستبقى فعالة بغض النظر عن حجم المنظمة التي تنطبق عليها ، تحظى بالاهتمام. مهما كان حجم المنظمة ، ومهما كانت حالتها الحالية للسياسة العامة لأمن المعلومات ، فهناك دائماً هدف وراء التحقق من السياسات والإجراءات الحالية من وقت لآخر. البحث وجد ان المشكلة الرئيسية في سياسة أمن المعلومات في القطاع الحكومي والمؤسسات عدم وجود مراجعة وتطوير وتطبيق الطرق المنصوصة والمعتمدة لضبط سياسة أمن المعلومات في المؤسسة وتم عمل كود مطور ليساعد في عملية المراقبة والتقييم والتطوير للسياسة الامنية في المؤسسة .

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