

SECURITY THREATS, MEASURERS AND POLICY CONSIDERATION: A CONCEPTUAL MODEL FOR SUCCESS

Hossein Bidgoli, School of Business and Public Administration, California State University, Bakersfield, CA 93311, 661-654-2331, hbidgoli@csub.edu

ABSTRACT

A comprehensive security system could protect organizations information resources, the second most important resource after the human resources. In order to develop a comprehensive security system, combinations of people, hardware, software, procedures and policy considerations must be closely examined and integrated. This paper first examines security threats and then identifies a number of measures in order to protect against the identified threats. Then the paper outlines a number of policy considerations organized as a conceptual model. If the guidelines introduced are properly implemented, they should significantly improve the security of a network and computer environments by keeping the hackers and crackers at bay.

BODY

Network administrators and security managers must be concerned and prepared to protect information resources in challenging and dynamic networked world. Comprehensive security policies must be developed and constantly updated in order to reflect such an ever-changing environment.

Security threats are varied and come from various sources and they include internal, external, controllable, uncontrollable, partially controllable, intentional and unintentional. Security measures include physical, software, hardware and systems consideration and integration. Policy considerations include development of a series of security policy guidelines and enforcements for such policy guidelines. Organizational-wide security awareness should be introduced and promoted first before the implementation of policy considerations. All employees should understand security risk analysis and risk awareness before the implementation of the organizational-wide security policy guidelines. A comprehensive disaster recovery plan should also be developed, in case, if something goes wrong.

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