

雲端系統登入安全分析：以全球網路銀行密碼輸入安全系統為例

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摘要



雲端運算讓使用者透過智慧型裝置（個人電腦、平板電腦、智慧型手機）得以在遠端登入系統，隨時可以取得存放在雲端的資料與各項服務。在駭客無所不在、無所不能的網路時代，駭客最常利用鍵盤側錄、網路側錄等技術，取得端點使用者之帳號與密碼，冒名登入雲端系統，盜取、破壞企業或組織有價值的資料、伺服器，造成嚴重之後果。針對雲端運算、電腦網路系統身分認證、登入之安全，本研究以南韓與中國大陸網路銀行目前使用的軟體輸入保護系統為例進行弱點分析，探討其所面臨的問題，並進一步提出改善其系統的實際方法。

關鍵詞：身分認證、防鍵盤側錄、密碼輸入安全、鍵盤加密、鍵盤側錄

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Cloud Computing Login Security Analysis-based on ID/Password Security System of Internet Banking in Global

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Abstract

Users use PC, tablet, smartphone to login Cloud Computing remotely, then access the services and data in the Cloud Computing system. But the hackers in the dark are able to grasp everything in the Internet, including stealing users' ID/passwords by keylogger, network sniffer in the client sides. With the stolen ID/password, hackers can login Cloud Computing system, get the data and valuable IPs of enterprises or organizations. That will cause big crisis. For understanding more about the authentication, login security issues of Cloud Computing and general network systems, this study shows the weakness analysis in the Internet banking login protection system that are using now everyday in South Korea and mainland China. This study not only discusses the problems and issues, but also comes out a proposal to improve the login authentication security of Cloud Computing.

Keywords: authentication, keyboard encryption, keyboard security, keylogger, anti-keylogger

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