

Studi kelayakan dalam pembuatan akses kontrol dengan mekanisme autentifikasi berjenjang di Kedutaan Besar Amerika Serikat Jakarta

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20375535&lokasi=lokal>

Abstrak

Beberapa teknik password untuk mekanisme autentifikasi berjenjang di dalam pengembangan secondary password diperkenalkan. Termasuk kedalamnya user-selected password, system-generated password, passphrase, cognitive password, dan associative password. Suatu evaluasi yang digunakan untuk membandingkan antara kemampuan mengingat dan kesukaan dari pengguna terhadap password tersebut dilaksanakan. Studi kelayakan terhadap Return on Investment (ROI) dari akses kontrol dihitung berdasarkan hasil dari kemampuan mengingat dari pengguna dan analisa risiko, dapat disimpulkan bahwa cognitive password dan associative password adalah yang paling tepat untuk secondary password.

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Several password techniques for multilevel authentication mechanism in the development of secondary password was presented. These included userselected passwords, system-generated passwords, passpharase, cognitive passwords, and associative passwords. A comparative evaluation on the users' memorability and users' subjective preferences for those various password mechanisms was conducted. Retum on Investment (ROI) for access control was calculated based on the result of the users' memorability and risk analysis. From the comparative evaluation and the study on ROI for access control, it can be concluded that cognitive passwords and associative passwords seem to be the most appropriate for secondary password.