

RANCANG BANGUN APLIKASI NETWORK ADMISSION CONTROL (NAC) BERBASIS SHORT MESSAGE SERVICE (SMS)

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ABSTRAK

Network Access Control (NAC) merupakan teknologi keamanan jaringan yang melakukan otentikasi terlebih dahulu sebelum diperbolehkan. Otentikasi adalah proses dimana validasi user terlebih dahulu saat memasuki sistem. Nama dan password dicek oleh sistem bahwa user tersebut adalah autentik atau asli. Penggunaan nama dan user yang statis atau seluas masangat rentan terhadap penyalahgunaan terhadap pihak yang tidak bertanggung jawab. Dengan adanya tantangan tersebut maka diperlukan suatu hal diluar nama dan password user, yaitu otentikasi password tambahan melalui SMS gateway. Otentikasi password tambahan ini berubah-ubah sesuai dengan waktu login.

One Time Password (OTP) merupakan sebuah password yang berubah – rubah dalam waktu tertentu. Rancang bangun NAC dengan tambahan One Time Password (OTP) ini diharapkan membantu administrator membangun keamanan server jaringan.

Kata Kunci : NAC, Otentikasi, password, sms gateway, OTP

DESIGN AND APPLICATION NETWORK ADMISSION CONTROL (NAC) BASED SHORT MESSAGE SERVICE (SMS)

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ABSTRAK

Network Access Control (NAC) is a network security technology that performs authentication before allowed . Authentication is the process by which the validation when the user first enters the system . A firewall is a network traffic trying to get into the computer . Firewall does not allow entry if the computer can not meet the predetermined authentication . Names and passwords are checked by the system that the user is authentic or original . Firewall is one of them using a static username and password is always the same or very vulnerable to penyalahgunaan against irresponsible parties . Given these challenges , we need a case beyond a user name and a password , which is an additional form of password authentication token . Additional passwords or authentication tokens change according to the time of login . Degenerate use encryption md5 token is added to the time stamp . Komputer user first enters the firewall , if the firewall user granted permission by the user will enter the system by entering your username and password and a token that has been added is determined by the system . The token method known as One Time Password (OTP) is a password change in a certain time . This token is sent via short message service (SMS) gateway . NAC with additional design One Time Password (OTP) is expected to help administrators build a network server security .

Keywords: NAC, Authentication, firewall, sms gateway, OTP