

BAB VI

KESIMPULAN DAN SARAN

7.1 Kesimpulan

Beberapa kesimpulan yang dapat diambil dari hasil penelitian tentang sistem peringatan keamanan *real-time report* dengan SMS gateway yang di kembangkan adalah :

1. Aplikasi *real-time report* dengan SMS gateway berhasil dikembangkan dan berjalan dengan baik, sehingga diharapkan dapat membantu serta meringankan kegiatan *administrator* dalam mengawasi keamanan layanan sistem.
2. Berdasarkan hasil pengujian terhadap kehandalan aplikasi dalam melaporkan aktivitas data pada jaringan komputer, sistem ini dapat melakukan pendeteksian dengan akurat untuk melakukan *warning report* sehingga diharapkan memberikan kontribusi besar dalam meningkatkan perilaku *self-protection administrator* terhadap sistem yang diamankan.
3. Berdasarkan data hasil pengujian sistem ini dapat diandalkan untuk melakukan pendeteksian dini terhadap aktivitas tidak sah. Hal ini diharapkan dapat membantu *administrator* dalam melakukan tindak pencegahan sebelum terjadi kerugian ataupun kerusakan.

7.2 Saran

Adapun beberapa saran yang dapat menjadi bahan pertimbangan untuk pengembangan sistem ini adalah :

1. Sistem peringatan yang dikembangkan bergantung pada signal operator selular sehingga *report* hanya dapat dikirim dan diterima ketika signal operator selular yang digunakan dalam kondisi normal karena menggunakan teknik SMS gateway, kedepannya pengembangan dapat menggunakan teknik alternatif lain dalam melakukan peringatan.
2. Pengembangan sistem ini berbasis aplikasi desktop yang berjalan pada platform sistem operasi windows, untuk pengembangan selanjutnya dapat dikembangkan kedalam platform berbeda sehingga juga dapat berfungsi pada *server* dengan sistem berbeda.

Daftar Pustaka

- Anitha, A. (2011). Network Security Using Linux Intrusion Detection System. *International Journal of Research in Computer Science*, vol.2, no.1 , 33-38.
- Arai, M. (2012). TCP/IP Visualization Systems with a Packet Capturing Function. *International Journal of Information and Education Technology*, vol.2, no.4 , 291-293.
- Asrodia, P., & Patel. (2012). Analysis of Various Packet Sniffing Tools for Network Monitoring and Analysis. *International Journal of Electrical, Electronics and Computer Engineering*, vol.1, no.1 , 55-58.
- Asrodia, P., & Patel, H. (2012). Network Traffic Analysis Using Packet Sniffer. *International Journal of Engineering Research and Applications*, vol.2, no.3, May , 854-856.
- Banerjee, Vashishtha, & Saxena. (2010). Evaluation of the Capabilities of WireShark as a tool for Intrusion Detection. *International Journal of Computer Applications*, vol.6, no.7, September , 1-5.
- Chen, Y., Das, S., Dhar, P., El Saddik, A., & Nayak, A. (2008). Detecting and Preventing IP-spoofed Distributed DoS Attacks. *International Journal of Network Security* , 69-80.
- Darapareddy, B., & Gummadi, V. (2012). An Advanced Honeypot System for Efficient Capture and Analysis of Network Attack Traffic. *International Journal of Engineering Trends and Technology*, vol.3, no.5 .
- Dhillon, & Ansari, U. (2012). Enterprises Network Traffic Monitoring, Analysis and Reporting Using WINPCAP Tool With JPCAP API. *International Journal of Advanced Research in Computer Science and Software Engineering*, vol.2, no.11 November , 95-101.
- Faizal, M., & all, e. (2009). Threshold Verification Technique for Network Intrusion Detection System. *International Journal of Computer Science and Telecommunications*, vol.2, no.1 , 1-8.
- Gupta, B., Joshi, R., & Misra, M. (2010). Distributed Denial of Service Prevention Techniques. *International Journal of Computer and Electrical Engineering*, vol.2, no.4, April , 268-276.
- Jaisankar, N., Saravanan, R., & Swamy, D. (2009). Intellegent Intrusion Detection System Framework Using Mobile Agents. *International Journal of Network Security & Its Applications*, vol.1, no.2, July , 72-88.
- Katankar, & Thakare, V. M. (2010). Short Message Service using SMS Gateway. *International Journal of Computer Science and Engineering* , 2 (4), 1487-1491.
- Khizza, J. (2005). *Computer Network Security*. Chattanooga: Springer.

- Koteswarao, B., & Begum, S. (2012). Application Layer Based Packet Analysis and Intrusion Detection. *International Journal of Engineering Trends and Technology*, vol.3, no.4 , 1-5.
- Lumanto, R. (2012). *Tren Ancaman Cyber Tahun 2012*, Laporan Tahunan, ID-SIRTII.
- Lindqvist, J., Vehmersalo, E., Komu, M., & Manner, J. (2010). Enterprise Network Packet Filtering for Mobile Cryptographic Identities. *International Journal of Handheld Computing Research*, vol.1, no.1, January , 79-94.
- Manchikanti, Prashanth, J., & Murthy, G. (2012). Automation of Network Protocol Analysis. *International Journal of Computer Trends and Technology*, vol.3, no.3 , pp. 1-4.
- Raaj S, V., & Kavitha, M. (2013). An Effective Packet Filtering Mechanism For Reducing Complexity. *International Journal of Emerging Technology and Advanced Engineering*, vol.3, no.1, , 215-219.
- Rao, M., & Nipur. (2012). Network Security in Organizations using Intrusion Detection System Based On Honeypots. *Global Journal of Computer Science and Technology Network, Web & Security*, vol.12, no.16 , 50-56.
- Riadi I., et all. (2013). Internet Forensics Framework Based-on Clustering. (IJACSA) *International Journal of Advanced Computer Science and Applications*, Vol. 4, No. 12, 2013.
- Salahuddien, M. (2009). *Pertahanan Keamanan Informasi Nasional*, Laporan Tahunan, ID-SIRTII.
- Salahuddien, M. (2010). *Trend Keamanan Internet Indonesia*, Laporan Tahunan, ID-SIRTII.
- Saravanakumar, S., Mohanaprakash, T., Dharani, M., & Kumar, C. (2011). Analysis of ANN-based Echo State Network Intrusion Detection in Computer Networks. *International Journal of Computer Science and Telecommunications*, vol.3, no.4, April , 8-13.
- Sharma, Sharma, & Singh. (2012). A Secure Intrusion Detection System Against DDOS Attack in Wireless Mobile Ad-hoc Network. *International Journal of Computer Applications*, vol.41, no.21, March , 16-21.
- Stallings, W. (2006). *Cryptography and Network Security Principles and Practices*, 4th edition. New Jersey: Pearson Prentice Hall.
- Stiawan, D., Abdullah, A., & Idris, M. (2011). Characterizing Network Intrusion Prevention System. *International Journal of Computer Application*, vol.14, no.1, January , 11-18.
- Suri, & Brata. (2012). Comparative Study of Network Monitoring Tools. *International Journal of Innovative Technology and Exploring Engineering*, vol.1, no.3, August , 63-65.

Vallinagayam, M., & Sasikala, S. (2012). A Secure Intrusion Detection System in Mobile Ad Hoc Network. *International Journal of Computer Science and Management Research*, vol.1, no.4, November , 797-802.

Victor, G., Rao, M., & Venkaiah, V. (2010). Intrusion Detection Systems - Analysis and Containment of False Positives Alerts. *International Journal of Computer Applications*, vol.5, no.8, August , 27-33.

