DAFTAR ISI

LEMBAR PENGESAHAN.....Error! Bookmark not defined.
LEMBAR PERNYATAAN.....Error! Bookmark not defined.
ABSTRAK.....Error! Bookmark not defined.
ABSTRACT.....Error! Bookmark not defined.
KATA PENGANTAR .....Error! Bookmark not defined.
DAFTAR ISI ..... **vii**
DAFTAR TABEL.....Error! Bookmark not defined.
DAFTAR GAMBAR .....Error! Bookmark not defined.
BAB I PENDAHULUAN .....Error! Bookmark not defined.
1.1 Latar Belakang .....**Error! Bookmark not defined.**
1.2 Maksud dan Tujuan .....**Error! Bookmark not defined.**
1.3 Batasan Masalah.....**Error! Bookmark not defined.**
1.4 Metodologi Penelitian .....**Error! Bookmark not defined.**
1.5 Sistematika Penulisan.....**Error! Bookmark not defined.**
BAB II TINJAUAN PUSTAKA .....Error! Bookmark not defined.
2.1 Jaringan Komputer .....**Error! Bookmark not defined.**
2.1.1 Berdasarkan Cakupan Area .....**Error! Bookmark not defined.**
2.1.2 Berdasarkan Media Transmisi ..**Error! Bookmark not defined.**
2.1.3 Berdasarkan Fungsi.....**Error! Bookmark not defined.**
2.1.4 Berdasarkan Tipe Koneksi.....**Error! Bookmark not defined.**
2.2 Topologi Jaringan.....**Error! Bookmark not defined.**
2.2.1 Topologi Fisik.....**Error! Bookmark not defined.**
2.2.2 Topologi Logikal .....**Error! Bookmark not defined.**
2.3 Protokol Jaringan.....**Error! Bookmark not defined.**
2.4 OSI Model (*Open System Interconnection*)**Error! Bookmark not defined.**
2.5 TCP/IP Protocol Suite .....**Error! Bookmark not defined.**
2.6 Protokol UDP .....**Error! Bookmark not defined.**
2.7 Protokol TCP.....**Error! Bookmark not defined.**
2.8 IPv4 .....**Error! Bookmark not defined.**

2.8.1 Classful Addressing .....**Error! Bookmark not defined.**
2.8.2 Classless Addressing.....**Error! Bookmark not defined.**
2.9 Sistem Keamanan Jaringan.....**Error! Bookmark not defined.**
2.9.1 Ancaman (*Threat*).....**Error! Bookmark not defined.**
2.9.2 Kelemahan (*Vulnerability*) .....**Error! Bookmark not defined.**
2.9.3 Serangan (*Attack*).....**Error! Bookmark not defined.**
2.10 Mikrotik Router OS.....**Error! Bookmark not defined.**
2.11 Firewall.....**Error! Bookmark not defined.**
2.12 Packet Sniffer .....**Error! Bookmark not defined.**
2.13 Demilitarized Zone.....**Error! Bookmark not defined.**
2.14 Intrusion Detection System .....**Error! Bookmark not defined.**
2.15 Intrusion Prevention System .....**Error! Bookmark not defined.**
2.15.1 *Host-based Intrusion Prevention System (HIPS)*..... **Error! Bookmark not defined.**
2.15.2 Network-based Intrusion Prevention System (NIPS) ..... **Error! Bookmark not defined.**
2.16 Snort .....**Error! Bookmark not defined.**
2.16.1 Snort Rules.....**Error! Bookmark not defined.**
2.17 Scan FIN.....**Error! Bookmark not defined.**
2.18 Ping of Death Attack .....**Error! Bookmark not defined.**
2.19 Apache Range Header Attack .....**Error! Bookmark not defined.**
2.20 IP Spoofing.....**Error! Bookmark not defined.**
BAB III PERANCANGAN SISTEM ..... Error! Bookmark not defined.
3.1 Topologi Jaringan.....**Error! Bookmark not defined.**
3.2 Diagram Alir Sistem.....**Error! Bookmark not defined.**
3.3 Komponen Sistem .....**Error! Bookmark not defined.**
3.3.1 Perangkat Keras .....**Error! Bookmark not defined.**
3.3.2 Perangkat Lunak .....**Error! Bookmark not defined.**
3.4 Instalasi Sistem.....**Error! Bookmark not defined.**
3.5 Konfigurasi Ubuntu Server .....**Error! Bookmark not defined.**
3.5.1 Konfigurasi DNS server.....**Error! Bookmark not defined.**
3.5.2 Konfigurasi Web Server .....**Error! Bookmark not defined.**

3.5.3 Konfigurasi Mail Server .....**Error! Bookmark not defined.**
3.6 Konfigurasi DMZ .....**Error! Bookmark not defined.**
3.7 Konfigurasi NIPS .....**Error! Bookmark not defined.**
3.7.1 Konfigurasi Packet Sniffer.....**Error! Bookmark not defined.**
3.7.2 Konfigurasi snort .....**Error! Bookmark not defined.**
3.7.3 Log Monitoring Program .....**Error! Bookmark not defined.**
3.7.4 Konfigurasi Blacklist Firewall..**Error! Bookmark not defined.**
BAB IV PENGUJIAN DAN ANALISIS..... Error! Bookmark not defined.
4.1 Persiapan Pengujian .....**Error! Bookmark not defined.**
4.1.1 Pemeriksaan Aliran Data Trafr dari packet sniffer mikrotik **Error! Bookmark not defined.**
4.1.2 Inisialisasi Sistem NIPS.....**Error! Bookmark not defined.**
4.2 Pengujian DMZ .....**Error! Bookmark not defined.**
4.3 Pengujian IPS .....**Error! Bookmark not defined.**
4.3.1 Pengujian Port Scan terhadap Server**Error! Bookmark not defined.**
4.3.2 Pengujian Ping Of Death Attack terhadap Server ..... **Error! Bookmark not defined.**
4.3.3 Pengujian Apache Range Header Attack terhadap Server **Error! Bookmark not defined.**
4.4 Analisa.....**Error! Bookmark not defined.**
4.4.1 Analisa DMZ .....**Error! Bookmark not defined.**
4.4.2 Analisa IPS .....**Error! Bookmark not defined.**
BAB V KESIMPULAN DAN SARAN..... Error! Bookmark not defined.
5.1 Kesimpulan.....**Error! Bookmark not defined.**
5.2 Saran.....**Error! Bookmark not defined.**
DAFTAR PUSTAKA ..... Error! Bookmark not defined.