

## DAFTAR ISI

LEMBAR PENGESAHAN .....	i
LEMBAR PERNYATAAN ORISINALITAS .....	ii
ABSTRAK .....	iii
<i>ABSTRACT</i> .....	iv
Kata Pengantar .....	v
DAFTAR ISI .....	vi
Daftar Gambar .....	x
Daftar Tabel .....	xii
Bab I PENDAHULUAN .....	1
1.1 Latar Belakang .....	1
1.2 Perumusan Masalah .....	3
1.3 Tujuan Penelitian .....	3
1.4 Batasan Penelitian .....	4
1.5 Manfaat Penelitian .....	4
Bab II TINJAUAN PUSTAKA .....	5
2.1 Penelitian Terdahulu .....	5
2.2 Dasar Teori .....	16
2.1.1 PT.XYZ .....	16
2.1.2 Xyz.id .....	17
2.1.3 Sistem Informasi .....	19
2.1.4 Keamanan Sistem Informasi .....	19
2.1.5 <i>Penetration Lifecycle</i> .....	19
2.1.6 <i>Penetration Testing</i> .....	21
2.1.6 <i>Black Box Testing</i> .....	21
2.1.7 ISSAF ( <i>Information Systems Security Assessment Framework</i> ) ....	21

2.1.8	Perbandingan <i>Framework</i> .....	22
2.1.9	Kali Linux .....	26
2.1.11	Oracle VM Virtualbox.....	28
2.1.12	Nmap.....	28
2.1.13	OWASP ZAP.....	29
2.1.14	Hydra.....	29
2.1.15	Whois .....	29
2.1.16	Nessus Vulnerability <i>Scanner</i> .....	30
2.1.17	SQL <i>Map</i> .....	30
2.1.18	Wireshark .....	30
2.1.19	Burpsuite .....	31
Bab III	Metodologi Penelitian.....	32
3.1	Metode yang digunakan .....	32
3.2	Alat dan Bahan .....	32
3.3	Metodologi Penelitian .....	33
3.4	Prosedur Penelitian.....	34
3.4.1	<i>Planning and Preparation</i> .....	34
3.4.2	<i>Assessment</i> .....	34
3.4.3	<i>Reporting, Clean Up and Destroy Artefacts</i> .....	36
3.4.4	Penyusunan Laporan .....	36
3.4.5	Pemberian Rekomendasi.....	36
Bab IV	Pengumpulan dan pengolahan data .....	37
4.1	<i>Information Gathering</i> .....	37
4.2	<i>Network Mapping</i> .....	41
4.3	<i>Vulnerability Identification</i> .....	45
4.4	Wawancara .....	50

Bab V	Implementasi dan Pengujian .....	51
5.1	<i>Planning and Preparation</i> .....	51
5.2	<i>Assessment</i> .....	51
5.2.1	<i>Penetration Testing</i> .....	51
5.2.2	<i>Gaining Access and Privilege Escalation</i> .....	54
5.2.3	<i>Enumerating Further</i> .....	61
5.1.8	<i>Compromise Remote User/Sites</i> .....	64
5.1.9	<i>Maintaining Access</i> .....	65
5.1.10	<i>Covering Tracks</i> .....	65
5.3	<i>Reporting, Clean-Up and Destroy Artefacts</i> .....	65
5.3.1	Pengumpulan Seluruh Data Hasil Pengujian .....	65
5.4	Validasi .....	73
5.5	Konfirmasi Hasil Temuan .....	74
5.6	Pemberian Rekomendasi .....	74
5.7	<i>Clean-Up and Destroy Artefacts</i> .....	76
Bab VI	Kesimpulan dan Saran .....	84
6.1	Kesimpulan .....	84
6.2	Saran .....	85
Daftar Pustaka	.....	86
Lampiran	.....	90
Lampiran 1	.....	90
Lampiran 2	.....	91
Lampiran 3	.....	92
Lampiran 4	.....	93
Lampiran 5	.....	96
Lampiran 6	.....	97

Lampiran 7 .....	100
Lampiran 8 .....	102
Lampiran 9 .....	103
Lampiran 10 .....	104
Lampiran 11 .....	105