

DAFTAR ISI

ABSTRAK	ii
<i>ABSTRACT</i>	iii
LEMBAR PENGESAHAN	v
LEMBAR PERNYATAAN ORISINALITAS	vi
Kata Pengantar	i
Daftar Isi.....	ii
Daftar Gambar.....	v
Daftar Tabel	xiv
Daftar Lampiran	xv
Daftar Istilah.....	xvii
Bab I PENDAHULUAN.....	21
I.1 Latar Belakang	21
I.2 Perumusan Masalah.....	25
I.3 Tujuan Penelitian.....	25
I.4 Batasan Penelitian	26
I.5 Manfaat Penelitian.....	27
I.6 Metodologi Penelitian	27
Bab II TINJAUAN PUSTAKA.....	30
II.1 Penelitian Sebelumnya	30
II.2 Dasar Teori	44
II.2.1 Sistem Informasi	45
II.2.2 Keamanan Sistem Informasi	45
II.2.3 <i>Information System Security Assessment Framework (ISSAF)</i>	47
II.2.4 Keamanan Siber (<i>Cyber Security</i>).....	51

II.2.5	Serangan Keamanan Siber (<i>Cyber Security Attack</i>).....	51
II.2.6	Uji Penetrasi (<i>Penetration Testing</i>).....	54
II.2.7	Pengujian <i>Black Box</i> (<i>Black Box Testing</i>).....	55
II.2.8	Alat Pengujian Penetrasi (<i>Penetration Testing Tools</i>).....	55
Bab III	Metodologi Penelitian.....	67
III.1.1	Metode yang Digunakan	68
III.2	Fase <i>Planning and Preparation</i>	69
III.2.1	Observasi dan Wawancara	69
III.3	<i>Assessment</i>	69
III.3.1	Tahapan <i>Information Gathering</i>	69
III.3.2	Tahapan <i>Network Mapping</i>	70
III.3.3	Tahapan <i>Vulnerability Identification</i>	71
III.3.4	Tahapan <i>Penetration</i>	71
III.3.5	Tahapan <i>Gaining Access & Privilege Escalation</i>	73
III.3.6	Tahapan <i>Enumerating Further</i>	73
III.3.7	Tahapan <i>Compromise Remote User or Sites</i>	74
III.3.8	Tahapan <i>Maintaining Access</i>	74
III.3.9	Tahapan <i>Covering Tracks</i>	74
III.4	Fase <i>Report, Clean Up and Destroy The Artifacts</i>	75
III.4.1	<i>Result and Analysis</i>	75
III.4.2	<i>Clean Up and Destroy The Artifact</i>	75
Bab IV	Analisis dan Perancangan	76
IV.1	Alat dan Bahan Penelitian	77
IV.2	Jadwal Pelaksanaan	79
Bab V	HASIL dan PEMBAHASAN	81
V.1	<i>Planning and Preparation</i>	81

V.1.1	<i>Observasi</i>	81
V.1.2	<i>Wawancara Awal</i>	82
V.2	<i>Assessment</i>	83
V.2.1	<i>Information Gathering</i>	84
V.2.2	<i>Network Mapping</i>	102
V.2.3	<i>Vulnerabilities Identification</i>	108
V.2.4	Penetration.....	125
V.2.5	<i>Gaining Access & Privilege Escalation</i>	145
V.2.6	<i>Enumerating Further</i>	156
V.2.7	<i>Compromise Remote Users or Sites</i>	164
V.2.8	<i>Maintaining Access</i>	182
V.2.9	<i>Covering Tracks</i>	183
V.3	<i>Reporting, Clean-up and Destroy Artifacts</i>	191
V.3.1	<i>Verbal Reporting</i>	192
V.3.2	<i>Final Reporting (Result and Analysis)</i>	192
V.3.3	Wawancara Hasil	216
V.3.4	<i>Clean-up and Destroy Artifacts</i>	216
Bab VI	Kesimpulan dan Saran	218
VI.1	Kesimpulan.....	218
VI.2	Saran	219
Bab VII	Daftar Pustaka.....	220