

TABLE OF CONTENTS

TABLE OF CONTENTS	4
0 PREPARATION (DOCUMENTATION REVIEW)	8
KEY DOCUMENTS.....	9
REVIEW	9
1 IDENTIFY (SCOPE)	10
SCANNING AND VULNERABILITIES.....	11
NMAP	11
NESSUS	11
OPENVAS	12
WINDOWS	13
NETWORK DISCOVERY	13
DHCP.....	13
DNS.....	13
HASHING.....	14
NETBIOS.....	15
USER ACTIVITY	15
PASSWORDS	15
MICROSOFT BASELINE SECURITY ANALYZER (MBSA)	16
ACTIVE DIRECTORY INVENTORY	16
LINUX.....	19
NETWORK DISCOVERY	19
DHCP.....	19
DNS.....	19
HASHING.....	20
NETBIOS.....	20
PASSWORDS	20
2 PROTECT (DEFEND)	21
WINDOWS	22
DISABLE/STOP SERVICES.....	22
HOST SYSTEM FIREWALLS.....	22
PASSWORDS	24
HOST FILE.....	24
WHITELIST	25
APPLICATION RESTRICTIONS	25
IPSEC.....	28
ACTIVE DIRECTORY (AD) - GROUP POLICY OBJECT (GPO).....	30
STAND ALONE SYSTEM - WITHOUT ACTIVE DIRECTORY (AD)	30
LINUX.....	34
DISABLE/STOP SERVICES.....	34
HOST SYSTEM FIREWALLS.....	35
PASSWORDS	36
HOST FILE.....	37
WHITELIST	37
IPSEC.....	38

3 DETECT (VISIBILITY)	40
NETWORK MONITORING.....	41
TCPDUMP	41
TSHARK	43
SNORT.....	45
NETWORK CAPTURE (PCAP) TOOLS	47
EDITCAP.....	47
MERGECAP	47
HONEY TECHNIQUES	48
WINDOWS	48
LINUX.....	49
NETCAT	50
PASSIVE DNS MONITORING.....	50
LOG AUDITING.....	51
WINDOWS	51
LINUX.....	57
4 RESPOND (ANALYSIS)	59
LIVE TRIAGE - WINDOWS	60
SYSTEM INFORMATION	60
USER INFORMATION.....	60
NETWORK INFORMATION	61
SERVICE INFORMATION.....	61
POLICY, PATCH AND SETTINGS INFORMATION.....	62
AUTORUN AND AUTOLOAD INFORMATION	62
LOGS	67
FILES, DRIVES AND SHARES INFORMATION	68
LIVE TRIAGE - LINUX.....	71
SYSTEM INFORMATION	71
USER INFORMATION.....	71
NETWORK INFORMATION	72
SERVICE INFORMATION.....	72
POLICY, PATCH AND SETTINGS INFORMATION.....	73
AUTORUN AND AUTOLOAD INFORMATION:	73
LOGS	74
FILES, DRIVES AND SHARES INFORMATION	74
MALWARE ANALYSIS	77
STATIC ANALYSIS BASICS.....	77
IDENTIFY MALWARE	80
PROCESS EXPLORER.....	80
FILE HASH ANALYSIS	82
HASH QUERY.....	82
HARD DRIVE AND MEMORY ACQUISITION	83
WINDOWS	83
LINUX.....	84
5 RECOVER (REMEDiate).....	86
PATCHING.....	87
WINDOWS	87
LINUX.....	87
BACKUP	89
WINDOWS	89
LINUX.....	92

KILL MALWARE PROCESS	93
WINDOWS	93
LINUX	93
6 TACTICS (TIPS & TRICKS)	94
OS CHEATS	95
WINDOWS	95
LINUX	97
DECODING	99
HEX CONVERSION	99
SNORT	101
SNORT RULES	101
DOS/DDOS	104
FINGERPRINT DOS/DDOS	104
TOOL SUITES	106
PREBUILT ISO, VIRTUAL MACHINE AND DISTRIBUTIONS	106
7 INCIDENT MANAGEMENT (CHECKLIST)	108
INCIDENT RESPONSE CHECKLIST	109
IDENTIFICATION TASKS	109
CONTAINMENT TASKS	111
REMEDICATION TASKS	112
OTHER / LESSONS LEARNED TASKS	114
MALWARE ATTRIBUTES CHECKLIST	115
8 SECURITY INCIDENT IDENTIFICATION (SCHEMA)	118
VOCABULARY FOR EVENTS RECORDING AND INCIDENT SHARING (VERIS)	119
GENERAL	119
ACTOR	121
ACTION	122
ASSET	125
ATTRIBUTE	126
COURSE OF ACTION	127
KILL CHAIN MAPPING	128
GATHER DATA FOR MAPPING KILL CHAIN	128
PRIORITIZED DEFENDED ASSET LIST (PDAL)	129
GATHER DATA AND PRIORITIZE ASSETS TO DEFEND	129
10 INDEX (A-Z)	132