

Certified Ethical Hacker (CEH) Exam Cheat Sheet

Basics

5 phases to a penetration test

Reconnaissance

Scanning & Enumeration

Gaining Access

Maintaining Access

Covering Tracks

Attack Types

OS: Attacks targeting default OS settings

App level: Application code attacks

Shrink Wrap: off-the-shelf scripts and code

Misconfiguration: not configured well

Legal

18 U.S.C 1029 & 1030

RFC 1918 - Private IP Standard

RFC 3227 - Collecting and storing data

ISO 27002 - InfoSec Guidelines

CAN-SPAM - email marketing

SPY-Act - License Enforcement

DMCA - Intellectual Property

SOX - Corporate Finance Processes

GLBA - Personal Finance Data

FERPA - Education Records

FISMA - Gov Networks Security Std

CVSS - Common Vulnerability Scoring System

Single Authority: CA at top. Trust based on CA itself

Hierarchical: CA at top. RA's Under to manage certs

XMKS - XML PKI System

Cryptography Attacks

Known Plain-text: Search plaintext for repeatable sequences. Compare to t versions.

Ciphertext-only: Obtain several messages with same algorithm. Analyze to reveal repeating code.

Replay: Performed in MITM. Repeat exchange to fool system in setting up a comms channel.

Digital Certificate

Used to verify user identity = nonrepudiation

Version: Identifies format. Common = V1

Serial: Uniquely identify the certificate

Subject: Whoever/whatever being identified by cert

Algorithm ID: Algorithm used

Issuer: Entity that verifies authenticity of certificate

Valid from/to: Certificate good through dates

PSH: Forces delivery without concern for buffering

RST: Forces comms termination in both directions

SYN: Initial comms. Parameters and sequence #'s

FIN: ordered close to communications

DHCP

Client — Discover —> Server

Client<—Offers— Server

Client — Request —> Server

Client<—ACK— Server

IP is removed from pool

Scanning & Enumeration

ICMP Message Types

0: Echo Reply: Answer to type 8 Echo Request

3: Destination Unreachable: No host/ network Codes

0 — Destination network unreachable

1 — Destination host unreachable

6 — Network unknown

7 — Host unknown

9 — Network administratively prohibited

10 — Host administratively prohibited

13 — Communication administratively pro-

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