Practical Malware Analysis

Chapter 0/1 Quiz

Chapter 0

1. Explain the differences between Basic Static, Advanced Static, Basic Dynamic, and Advanced Dynamic Analysis.

2. Match each type of malware to its description below

Botnet Malware that infects a machine and then uses the

machine to send spam, generating income for attackers

that sell spam-sending services

Downloader Malicious code designed to conceal the existence of other

code, usually paired with other malware and difficult to

detect

Information-stealing Malware Malicious code that exists only to download other

malicious code, commonly installed upon accessing a

system

Launcher Malicious code that can copy itself to infect additional

devices

Rootkit Allows an attacker remote access to a system and

receives instructions from a command and control server

Scareware Malware that collects data from a victim's device and

sends it to an attacker, typically to gain banking

credentials or PII

Spam-sending Malware Malicious program used to launch other malicious

programs, usually via non-traditional techniques to ensure

stealth

Worm or Virus Malware designed to frighten a user into buying

something via error messages, notifications, etc

Chapter 1

Wininet.dll

- 1. What are two ways that Antivirus software identifies malicious files?
- 2. Explain the differences between hashing, encryption, and encoding.
- 3. What are the differences between static, runtime, and dynamic linking and how does each affect what information appears in a PE header?
- 4. Match each of the following common Dynamic-link Libraries to its description below

Kernel32.dll	Contains all of the user-interface components, such as buttons, scroll bars, and components for controlling and responding to user interaction
Advapi32.dll	The interface to the Windows kernel, used to access functions not normally available to Windows programs
User32.dll	Contains functions for displaying and manipulating graphics
Gdi32.dll	Contains functions for connecting to a network or performing network-related tasks
Ntdll.dll	Contains core functionality, such as access to and manipulation of memory, files, and hardware
WSock32.dll or Ws2_32.dll	Contains higher-level networking functions that implement protocols such as FTP, HTTP, and NTP

Service Manager and Registry

Provides access to advanced core Windows components such as the

apply)	· · · · · · · · · · · · · · · · · · ·		ch of the following pieces of information are stored in a PE header? (Check all that
арріу)			Resources Section sizes Compile time Section names Exports Subsystem Imports
	0. v	VIIA	t are at least three things that indicate that an executable is packed?
	7. 1	Mato	ch the following common PE section names to their descriptions below
.text			Contains information for relocation of library files
.rdata			Contains the executable code
.data			Sometimes present, stores the export function information
.idata			Stores resources needed by the executable
.edata	a		Stores global data accessed throughout the program
.pdata	a		Holds read-only data that is globally accessible within the program
.rsrc			Sometimes preset, stores the import function information
.reloc			Present only in 64-bit executables and stores exception-handling information

Bonus: Explain what the MSVCRT Dynamic-link Library is used for