

# FILE ANALYSIS SYSTEM

## Security Scan Report

*Created by: Abdul Rehman / Roll No: 22BSCYS053*

Report Generated:	2025-11-01 05:35:23
Total Files Scanned:	20
Analysis Version:	v3.0

## SYSTEM OVERVIEW

The File Analysis System is a comprehensive malware detection tool that performs multi-layered security analysis on uploaded files. This system combines signature-based detection, heuristic analysis, and behavioral pattern recognition to identify potential threats.

## SCANNING PROCESS

**Step 1: File Hash Calculation** - Generates SHA-256 cryptographic hash for each file to create unique digital fingerprints.

**Step 2: Signature Matching** - Compares file hashes against a comprehensive malware signature database containing known threats.

**Step 3: Extension Analysis** - Examines file extensions to identify potentially risky file types (executables, scripts, etc.).

**Step 4: Heuristic Scanning** - Analyzes file characteristics including size anomalies, suspicious patterns, and behavioral indicators.

**Step 5: Risk Assessment** - Calculates overall risk score based on multiple detection factors and assigns threat classification.

**Step 6: Report Generation** - Compiles comprehensive analysis results with detailed threat information and recommendations.

## DETECTION CAPABILITIES

Malware Types Detected	Detection Methods
Trojans & Backdoors	Signature + Behavior Analysis
Ransomware	Hash Matching + Heuristics
Worms & Viruses	Pattern Recognition
Suspicious Scripts	Content Analysis
Potentially Unwanted Programs	Risk Scoring

## SCAN SUMMARY

Metric	Value	Status
Total Files Scanned	20	Complete
Dangerous Files	2	Alert
Suspicious Files	4	Warning
Clean Files	14	Safe
Average Risk Score	26.8%	Low

## DETAILED FILE ANALYSIS

### File #1: DDoS ATTACK MITIGATION AND TRAFFIC ANALYSIS SYSTEM.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	566.047 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	08653f6bd730b107e8570fa80c9d2135f5121b6234b3aa621c634ca4248f897f

## File #2: 22BSCYS CEP assignment titles and guidelines.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	55.998 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	7104bcd8943f63395e671e8282877348acb9a3b93cac35aa386714f28abfc56

## File #3: NTMEval.zip

Property	Value
Status	CLEAN
Risk Score	0%
File Size	37615.942 KB
Extension	.zip
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File

Risk Level	NONE
Description	No threats detected
SHA-256 Hash	3ecca2bc0a4ae1146a3ab518c0753f15a4744f532b92f2fe71a5c6c867bdfcf5

#### File #4: scan\_report (1).pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	3.434 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	a6c5681e0fe098eb8c3440f5aa288e62a0debaab0701b838838be73a9c978e47

#### File #5: NS - Lab 12.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	518.476 KB
Extension	.pdf

Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	12d497e8dd1d9ed4f2f26f9b608d51c55eed696b57cb6330e3c698fa1cc95c6e

### File #6: 13\_CLEAN\_page.html

Property	Value
Status	CLEAN
Risk Score	0%
File Size	0.142 KB
Extension	.html
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	e2cecdf0403320cdce4e9d1701519c7f4f08b9b340c5224ee97b64428d28e4c1

### File #7: 12\_CLEAN\_hello.py

Property	Value
Status	CLEAN

Risk Score	0%
File Size	0.183 KB
Extension	.py
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	bfea0b8e98c8719e08eb096851266924b18a18f5dd06d6a7c16d0ea742fb3790

### File #8: 11\_CLEAN\_readme.txt

Property	Value
Status	CLEAN
Risk Score	0%
File Size	0.115 KB
Extension	.txt
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	6652fd97fa4394294589e4f4669e2a44fc457b9e3a863e9a545f3947c6f94e8e

### File #9: 6\_SUSPICIOUS\_script.vbs

Property	Value
Status	SUSPICIOUS
Risk Score	95%
File Size	0.211 KB
Extension	.vbs
Scan Time	2025-11-01 05:35:22
Threat Name	Suspicious.VBS.Generic
Threat Type	Suspicious Activity
Risk Level	HIGH
Description	4 suspicious indicators
Suspicious Indicators	Small VBS file, HTTP URL, PowerShell, Download
SHA-256 Hash	698021803e13e516d4e08a0cdf20fa954c36fb736e71ab0d8c1f3aee2703b1d9

## File #10: 5\_SUSPICIOUS\_updater.ps1

Property	Value
Status	SUSPICIOUS
Risk Score	95%
File Size	0.171 KB
Extension	.ps1
Scan Time	2025-11-01 05:35:22
Threat Name	Suspicious.PS1.Generic
Threat Type	Suspicious Activity
Risk Level	HIGH

Description	5 suspicious indicators
Suspicious Indicators	Small PS1 file, HTTPS URL, PowerShell, Download, Bitcoin
SHA-256 Hash	8f30ae517c33dea148379544e9624ffd864e056e04e6724d3c47744a08869b12

### File #11: 4\_SUSPICIOUS\_installer.bat

Property	Value
Status	SUSPICIOUS
Risk Score	95%
File Size	0.226 KB
Extension	.bat
Scan Time	2025-11-01 05:35:22
Threat Name	Suspicious.BAT.Generic
Threat Type	Suspicious Activity
Risk Level	HIGH
Description	5 suspicious indicators
Suspicious Indicators	Small BAT file, HTTP URL, PowerShell, Download, Bitcoin
SHA-256 Hash	0ea5e2d5ba65885f41239b3001aa36060a08999bacdc4d50acb6070546c7d600

### File #12: 2\_DANGEROUS\_ransomware.exe

Property	Value
Status	DANGEROUS
Risk Score	100%
File Size	0.002 KB

Extension	.exe
Scan Time	2025-11-01 05:35:22
Threat Name	Ransomware.WannaCry.V2
Threat Type	Ransomware
Risk Level	CRITICAL
Description	WannaCry ransomware variant
Suspicious Indicators	Small EXE file
SHA-256 Hash	4fc82b26aecb47d2868c4efbe3581732a3e7cbcc6c2efb32062c08170a05eeb8

### File #13: 1\_DANGEROUS\_trojan.exe

Property	Value
Status	DANGEROUS
Risk Score	100%
File Size	0.001 KB
Extension	.exe
Scan Time	2025-11-01 05:35:22
Threat Name	Trojan.Generic.KBD
Threat Type	Trojan
Risk Level	CRITICAL
Description	Generic trojan with keylogging capabilities
Suspicious Indicators	Small EXE file
SHA-256 Hash	e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855

### File #14: Cyber-Complex Engineering Problem.docx

Property	Value
Status	CLEAN
Risk Score	0%
File Size	16.466 KB
Extension	.docx
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	06fcae1fe6efa21662146d5097c92bb8f4591a65faee77b4503ac34f6d342129

### File #15: scan\_report.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	3.777 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected

SHA-256 Hash	4e9ed8f1d7a6607ea60e030256d750b90590a9df6517948f45e3add97549beae
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### File #16: NPA LAB 11[1].docx

Property	Value
Status	CLEAN
Risk Score	0%
File Size	737.625 KB
Extension	.docx
Scan Time	2025-11-01 05:35:22
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	197bdb3ccc1e4efe030de1b15ce4504a2ada015f914a40934f92f5236331ea08

### File #17: Windows\_10-outbyte-driver-updater.exe

Property	Value
Status	SUSPICIOUS
Risk Score	50%
File Size	22044.758 KB
Extension	.exe
Scan Time	2025-11-01 05:35:23
Threat Name	PotentialRisk.EXE

Threat Type	Potentially Risky
Risk Level	MEDIUM
Description	Risky file type
SHA-256 Hash	9a4e95713c2b7b48299497e6b2085527ca2351b385c118720bcc7502596383fd

### File #18: 22BSCYS053 DF REPORT.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	446.734 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:23
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	a5553f44815832f6d507ef76c11ebb8634359123fc6fa87b368a76b5f5f8e460

### File #19: CrimeSceneBasicsPPT24.pptx

Property	Value
Status	CLEAN
Risk Score	0%
File Size	466.57 KB

Extension	.pptx
Scan Time	2025-11-01 05:35:23
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	efbcdd80d84e581727a92bb3e860e3e89525a1f94e572c45f5017c2a4fc99fd9

## File #20: 22BSCYS053 DIGITAL FORENSICS REPORT.pdf

Property	Value
Status	CLEAN
Risk Score	0%
File Size	348.946 KB
Extension	.pdf
Scan Time	2025-11-01 05:35:23
Threat Name	Clean.File.Safe
Threat Type	Safe File
Risk Level	NONE
Description	No threats detected
SHA-256 Hash	a01e083f5a28da4dfd5433b427dcbbf271055dd15f97246fe33dcad472714138