# **POC of Tools**

#### Tool Name:

CryptoKuchlen Decryption Tool

### Description:

CryptoKuchlen Decryption Tool is designed to reverse and analyze files encrypted by CryptoKuchlen ransomware. It supports multi-layer decryption involving XOR and substitution techniques.

#### What Is This Tool About?:

Focuses on decoding multi-layered ransomware encryptions and reconstructing partially lost data for forensic analysis.

### **★Key Characteristics / Features:**

Hybrid XOR/Substitution decryption Encrypted file classifier Nested ransomware marker detection Timeline correlation from metadata Graph-based decryption path visualization

#### Types / Modules Available:

CryptoKuchlen Signature Scanner Layer Decoder Module Hybrid Decryption Engine File Carver & Reconstructor Report Generator

#### How Will This Tool Help?:

Decrypts files partially or fully, helps analysts understand multi-layer ransomware behaviors and assists recovery teams.

#### 2 15-Liner Summary:

- 1. Identifies CryptoKuchlen ransomware
- 2. Scans and decrypts layers
- 3. Recovers metadata and timestamps
- 4. Batch file decryption supported
- 5. Forensic disk image compatible
- 6. GUI and CLI interface
- 7. Multi-layer report generation
- 8. Works offline

- 9. Graphical decryption map
- 10. Evidence-ready reporting
- 11. Recovers deleted file headers
- 12. Partial plaintext reconstruction
- 13. Supports dark web signature matching
- 14. Good for advanced analysts
- 15. Plugin compatible

## ☑ Time to Use / Best Case Scenarios:

After ransomware detection Advanced malware labs Field recovery operations

#### When to Use During Investigation:

Layered encryption analysis
Disk carving and recovery
Behavioral malware inspection

# **Best Person to Use This Tool & Required Skills:**

Best User: Malware Analyst / Forensics Expert Required Skills:

- Understanding of XOR and substitution ciphers
- Malware analysis techniques
- Familiarity with forensic toolkits

## ☑ Flaws / Suggestions to Improve:

Complex for beginners No Mac version Key detection not automated

#### **∜Good About the Tool:**

Advanced decryption visualization Effective on multi-layer infections Integrated forensics features