Digital Scavenger Hunt

Challenge Description

Category: Forensics

1. Discovery

The provided file is artifact.bin. Initial inspection with the file command shows that the system cannot identify the file type:

```
└$ file artifact.bin
artifact.bin: data
```

This indicates the Magic Bytes (file signature) have been altered.

2.Hex Analysis

Opening the file in a Hex Editor reveals the following "kill switch" modifications:

The Header:

The first 8 bytes contain the string CORRUPT! (Hex: 43 4F 52 52 55 50 54 21).

The Footer:

The final 4 bytes of the file contain the string DEAD (Hex: 44 45 41 44).

3. The Repair

To restore the file, replace the sabotaged bytes with standard PNG signatures:

Header: Replace CORRUPT! with 89 50 4E 47 0D 0A 1A 0A.

Footer: Replace DEAD with 49 45 4E 44 (the hex for IEND).

4. Solving

Once the bytes are repaired, the file can be renamed to restored.png. Opening the image reveals a QR Code.

Scanning the QR code yields the final flag: LNMHACKS{1M_H3R3}