

# Maldev Academy Tool - HellShell

## Introduction

At this point of the course, one should have a solid grasp of static evasion using encryption (XOR/RC4/AES) and obfuscation (IPv4/IPv6/MAC/UUID) techniques. Implementing one or more of the previously discussed evasion techniques in the malware can be time-consuming. One solution is to build a tool that takes in the payload and performs the encryption or obfuscation methods.

This module will demo a tool made by the Maldev Academy team that performs these tasks.

#### **Tool Features**

The tool has the following features:

- Supports IPv4/IPv6/MAC/UUID Obfuscation
- Supports XOR/RC4/AES encryption
- Supports payload padding
- Provides the decryption function for the selected encryption/obfuscation technique
- Randomly generated encryption keys on every run

## Usage

To use HellShell, download the source code and compile it manually. Ensure the build option is set to *Release*.

```
Addresses [252.72.131.228]

3.>>> "ipv6" ::: Output The Shellcode As A Array Of Ipv6

Addresses [FC48:83E4:F0E8:C000:0000:4151:4150:5251]

4.>>> "uuid" ::: Output The Shellcode As A Array Of UUid

Strings [FC4883E4-F0E8-C000-0000-415141505251]

5.>>> "aes" ::: Output The Shellcode As A Array Of Aes

Encrypted Shellcode With Random Key And Iv

6.>>> "rc4" ::: Output The Shellcode As A Array Of Rc4

Encrypted Shellcode With Random Key
```

#### **Example Commands**

- HellShell.exe calc.bin aes Generates an AES encrypted payload and prints it to the console
- HellShell.exe calc.bin aes > AesPayload.c Generates an AES-encrypted payload and outputs it to AesPayload.c
- HellShell.exe calc.bin ipv6 Generates an IPv6 obfuscated payload and prints it to the console

#### Demo

The image below shows HellShell being used to encrypt the payload using the RC4 encryption algorithm and outputting to a file.

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