Bandit Stealer Garbled

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According to CloudSek the stealer panel has security flaws that allow some of the data to be accessed without authentication. This example shows the main panel for the stealer
`http[:]//142.202.240[.]84:8080/csetayukhv.html`

Binary Analysis

Early builds of the stealer did not use obfuscation, and contained plaintext strings. These versions were simple to reverse engineer once the method names were recovered using GO IDA parser (works well!). Later versions of the stealer attempted to slightly obfuscate the method names and ultimately moved to using Garble a GO obfuscator.

Garble

Garble is able to obfuscate GO method names, obfuscate strings, and modify control flow. Each option can be enabled separately. We will be analyzing the following Bandit Stealer sample obfuscated with Garble `623a5f4c57cf5b3feb6775508cd6492f89d55ce11f62e0b6fb1020fd730b2e8f`.

Method Name Obfuscation

The method names are obfuscated using a hash which is then base64 encoded. The method metadata recovery process is not possible using our favorite IDA script but we can use GoReSym. When this is run we can see method names like...


```
{
            "Start": 5369065792,
            "End": 5369065824,
            "PackageName": "h20dLQEZPVaM",
            "FullName": "h20dLQEZPVaM.CvGFbRy"
        },
        {
            "Start": 5369072416,
            "End": 5369072512,
            "PackageName": "h20dLQEZPVaM",
            "FullName": "h20dLQEZPVaM.IRlPxsFX"
        },
        {
            "Start": 5369072512,
            "End": 5369072608,
            "PackageName": "h20dLQEZPVaM",
```

```
            "FullName": "h20dLQEZPVaM.MRLxEQ"
        },
```

Idea it might be possible to brute force these if you had access to an earlier version of the sample which has the full method names

String Obfuscation

The string obfuscation appears to result in dedicated functions for each obfuscated string which consist of some constants and an algorithm used to recreate the string. The function then converts the resulting byte string into a go string and returns it.

```
.text:00000001407BC661                mov     ecx, 0Ah
.text:00000001407BC666                call    runtime_slicebytetostring
.text:00000001407BC66B                mov     rbp, [rsp+38h+var_8]
.text:00000001407BC670                add     rsp, 38h
.text:00000001407BC674                retn
```

It may be possible to attack this by identifying the dedicated string functions and emulating them!

Stand Alone String Decryption
