

Malware from the Five Eyes

Introduction

The Five Eyes commonly share tools and techniques, and in some occasions also collectively develop new ones, such as the WARRIORPRIDE malware framework.

WARRIORPRIDE, as all the malware programs we discovered in Five Eyes' arsenal, is very flexible and versatile. Among the many interception modules WARRIORPRIDE is provided with, the technical research team has obtained a copy of QWERTY - WARRIORPRIDE's component designed to invisibly record all key strokes from an infected Windows computer - from the Snowden Archive.

Der Spiegel is now releasing QWERTY to the public in order to foster further research and investigations. Der Spiegel believes that the release of the malware, which appears to be several years old and likely replaced by more recent variations, will not affect any ongoing operation.

Technical Preview

QWERTY is a keylogger, a plugin for the WARRIORPRIDE malware framework, that is designed to intercept all keyboard keys pressed by the victim and record them for later inspection.

Its structure is really simple. It's made of a core component called QwertyKM, a driver that interfaces directly with Windows' keyboard manager, and a QwertyLP library which interacts with the driver to retrieve the keys pressed by the user and keep track of them in a file.

QWERTY is composed of the following binary files:

- 20120.dll
- 20121.dll
- 20123.sys

Each one of these components is provided with a structured XML document that defines all available commands as well as dependencies.

We learned from Snowden documents that WARRIORPRIDE is the implementation of a CNE library called Wzowski. In some of the XML documents from QWERTY we find it referenced as a dependency – WzowskiLib v2.1 – along with a more generic CNELib v2.10.

Additionally, we can find hardcoded in one of the binaries the following string:

```
C:\dev\k1svn\dsd\Implants\WarriorPride\production2.0\package\E_Wzowski\Release\E_Qwerty.pdb
```

This strongly confirms the connection to WARRIORPRIDE and possibly suggests a relation to the Defense Signals Directorate (DSD), now just known as Australian Signals Directorate (ASD), one of the Five Eyes.

File

The malware samples are contained in a password-protected zip archive (password is "infected") attached here encoded in base64.

To avoid problems with copy and pasting that occur with some PDF readers, the following command line can be used on a Linux system to easily extract the zip file from this PDF:

```
pdftotext filename.pdf -lgrep -v greplgrep AAAAA -A 1000ltr -d '\014'!sed -e '/^$/d'!base64 -d > malware.zip
```

The resulting zip file should have the sha1sum f4fa863426136d0006f897b8a1dd21d2ad83866c.

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