

EK uses a small number of exploits

At the technical level, the exploit kit is still small in terms of the number of exploits it deploys to infect users with malware. Researchers have spotted only three. They are:

CVE-2015-5119 —a use-after-free vulnerability in Adobe Flash Player patched in July 2015

CVE-2016-0189 —a memory corruption vulnerability in Internet Explorer (IE) patched in May 2016

CVE-2018-4878 —a use-after-free vulnerability in Adobe Flash Player patched in February 2018

None is specific to Underminer, and all have been used by other EKs in the past, suggesting the EK authors have built their operation by copying the ones before it.

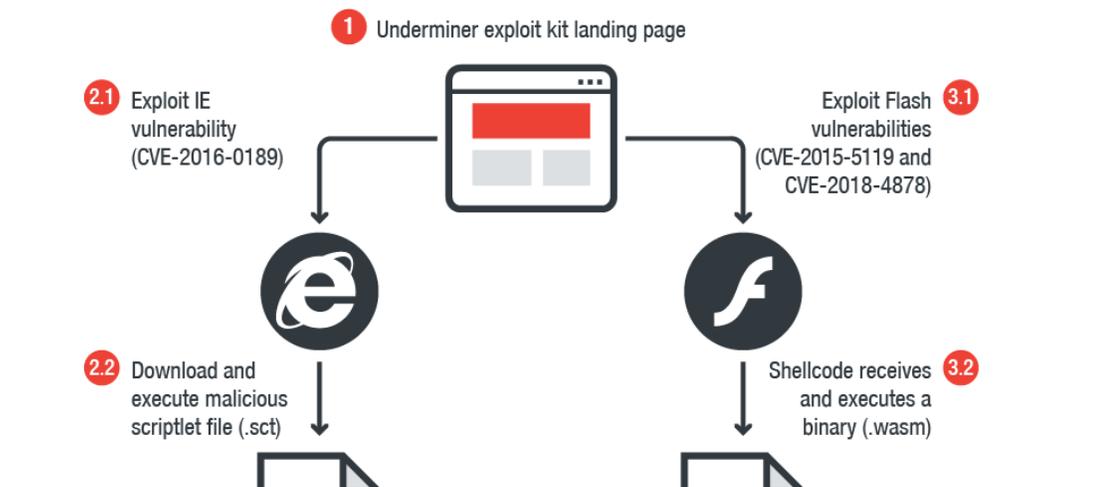
Underminer has been deploying Hidden Bee malware

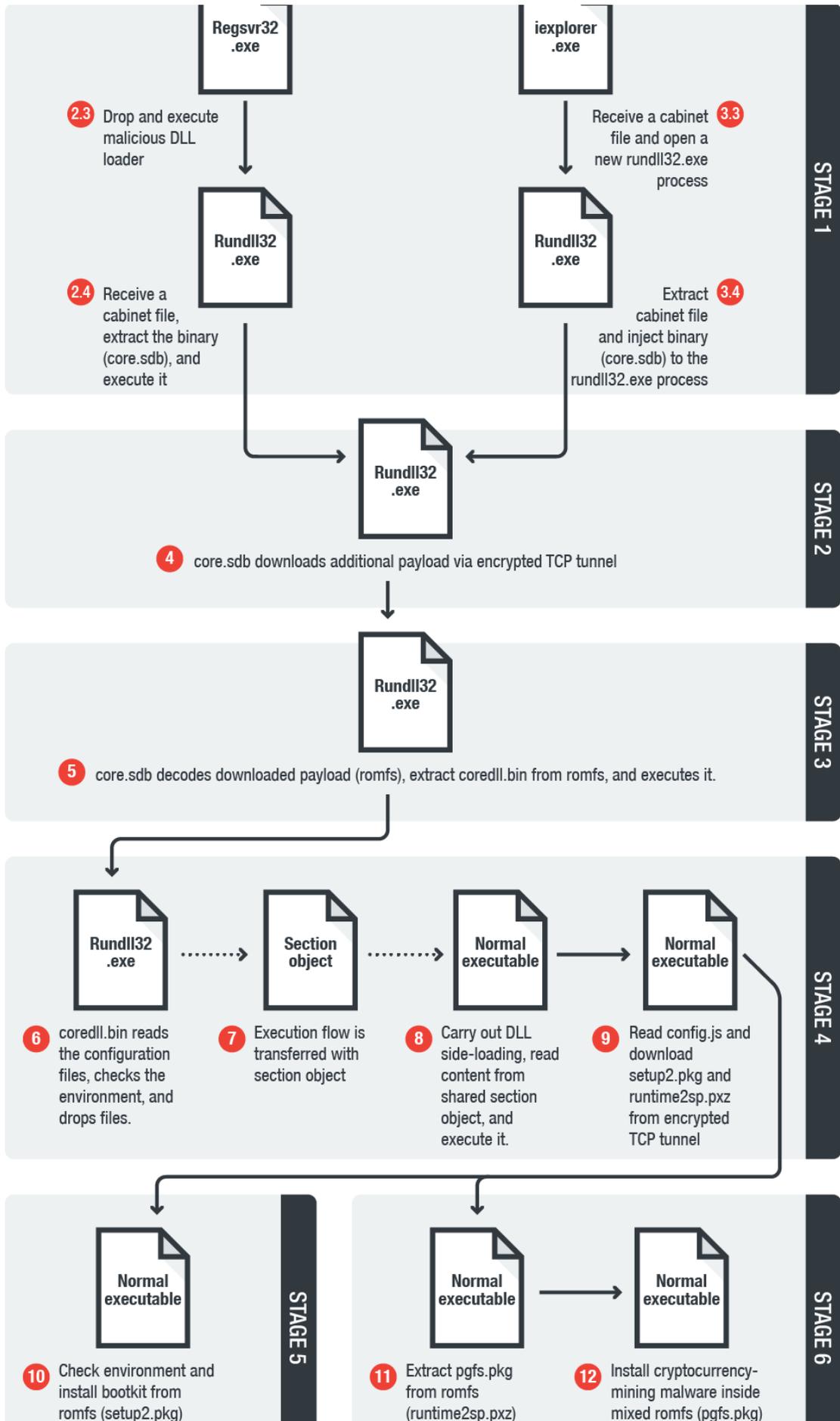
As for the malware delivery mechanism used in recent campaigns, the EK has been seen using encrypted TCP tunnels to deploy a bootkit first—for OS persistence—and then a coinminer.

Trend Micro calls this coinminer "Hidden Mellifera," while Malwarebytes refers to it as "Hidden Bee," the same name it received in the Chinese infosec community last year, when it was first spotted and analyzed [1, 2].

Exploit kits have been on a downward trend in the past two-three years, and usually keeping an up-to-date browser and OS is enough to safeguard users from getting infected.

A few new exploits pop up on the market once in a while, but all are short-lived, as they have a hard time keeping their operation at profitable levels, mainly because modern browsers are harder and harder to hack, while Flash usage has gone down in recent years [1, 2].





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