A check for the latest build at the time of discovery: Windows 10 Redstone 4 Build 17133

Similarly to CHAINSHOT, this exploit heavily relies on the use of C++ exception handling mechanisms with cust

cts and creates a big number of e for what we will call "Transaction #2". Enlistment is a special object that is used for association between a transaction and a resource manager. When the transaction state changes associated resource manager is notified by the KTM. After that it creates one more enlistment object only now it does so for "Transaction #1" and commits all the changes made during t

After all the initial preparations have been made exploit proceeds to the second part of vulnerability trigger. It creates multiple threads and binds them to a single CPU core. One of created threads calls NtQuenyInformationResourceManager in a loop, while second thread tries to execute NtRecoverResourceManager once. But the vulnerability itself is triggered in the third thread. This thread uses a trick of execution NtQueryInformationThread to obtain information on the latest executed syscall for the second thread. Successful execution of NtRecoverResourceManager will mean that race condition

of of concept: execution of WriteFile with buffer set to 0x41

As always, we provided Microsoft with a proof of concept for this vulnerability, along with source code. And it was later shared through Microsoft Active Protections Program (  ${\it MAPP}$  ).

More information about SandCat, FruityArmor and CVE-2018-8611 is available to customers of Kaspersky Intelligence Reports. Contact: intelreg



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