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The vulnerability affects Windows versions 7 through 10 and can be used by an attacker to escalate their privileges to all-access SYSTEM account level.

A couple of days after the exploit code became available (source and binary), malware researchers at ESET noticed its use in active malicious campaigns from a threat actor they call PowerPool, because of their tendency to use tools mostly written in PowerShell for lateral movement.

PowerPool targets GoogleUpdate.exe

The group appears to have a small number of victims in the following countries: Chile, Germany, India, the Philippines, Poland, Russia, the United Kingdom, the United States, and Ukraine.

The researchers say that PowerPool developers did not use the binary version of the exploit, deciding instead to make some subtle changes to the source code before recompiling it.

"PowerPool's developers chose to change the content of the file C:\Program Files (x86)\Google\Update\GoogleUpdate.exe. This is the legitimate updater for Google applications and is regularly run under administrative privileges by a Microsoft Windows task," ESET [notes](#).

```
v4 = CreateBindingHandle((__int64)&v3);
SchRpcCreateFolder(
    v3,
    (__int64)L"UpdateTask",
    (__int64)L"D:(A;;FA;;;BA)(A;OICIIIO;GA;;;BA)(A;;FA;;;SY)(A;OICIIIO;GA;;;SY)(A;;0x1301bf;;;AU)(A;OICIIIO;SDGXGWR;;;AU)(A;"
    ";0x1200a9;;;BU)(A;OICIIIO;GXGR;;;BU)",
    0i64);
SchRpcSetSecurity(
    v3,
    (__int64)L"UpdateTask",
    (__int64)L"D:(A;;FA;;;BA)(A;OICIIIO;GA;;;BA)(A;;FA;;;SY)(A;OICIIIO;GA;;;SY)(A;;0x1301bf;;;AU)(A;OICIIIO;SDGXGWR;;;AU)(A;"
    ";0x1200a9;;;BU)(A;OICIIIO;GXGR;;;BU)",
    0i64);
```

Threat actor changes permissions of the Google Updater executable

This allows PowerPool to overwrite the Google updater executable with a copy of a backdoor they typically use in the second stages of their attacks. The next time the updater is called, the backdoor launches with SYSTEM privileges.

According to the researchers, PowerPool malware operators likely use the second-stage backdoor only on victims of interest, following a reconnaissance step.

Microsoft did not patch the ALPC bug to this day, but it is expected to release a fix in its monthly security updates, on September 11.

Some mitigation is possible without Microsoft's help, though the company did not approve it. A solution provided by Karsten Nilsen blocks the exploit and allows scheduled tasks to run, but it may break things created by the legacy Task Scheduler interface.

Users of 64-bit Windows 10, version 1803, can mitigate the problem by applying a [micropatch](#). The fix is temporary and requires the installation of the 0patch Agent from Acros Security.

The company makes the source code for the micropatch available in the tweet below:



[Automated Pentesting Covers Only 1 of 6 Surfaces.](#)

Automated pentesting proves the path exists. BAS proves whether your controls stop it. Most teams run one without the other.

This whitepaper maps six validation surfaces, shows where coverage ends, and provides practitioners with three diagnostic questions for any tool evaluation.

Source: <https://www.bleepingcomputer.com/news/security/windows-task-scheduler-zero-day-exploited-by-malware/>