[Secure Boot is designed to stop this](https://blogs.msdn.microsoft.com/b8/2011/09/22/protecting-the-pre-os-environment-with-uefi/). Windows 8 and 10 PCs ship with Microsoft’s certificate stored in UEFI. UEFI will check the boot loader before launching it and ensure it’s signed by Microsoft. If a rootkit or another piece of malware does replace your boot loader or tamper with it, UEFI won’t allow it to boot. This prevents malware from hijacking your boot process and concealing itself from your operating system.