

## ZeroTierOne for windows local privilege escalation because of incorrect directory privilege in zerotier/zerotierone



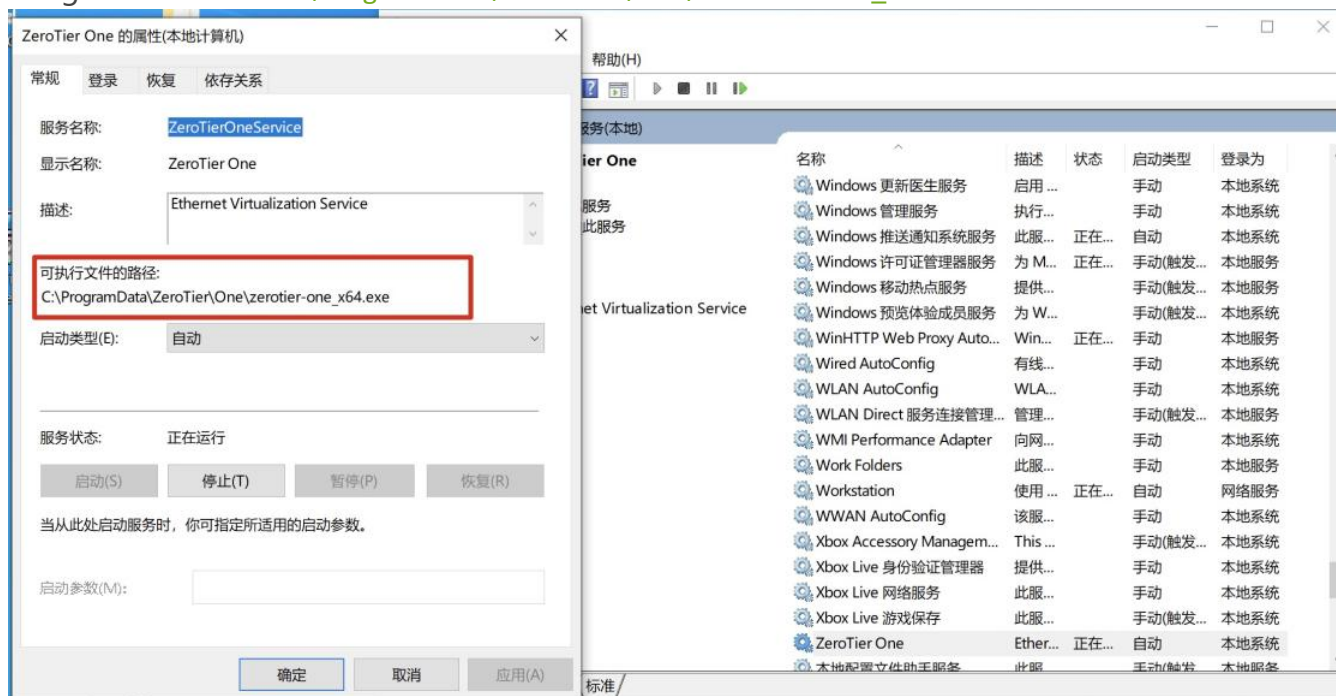
Reported on Apr 9th 2022

### Description

When administrators install zerotierone for windows, it will install ZeroTierOneService, the ImagePath of it is `C:\ProgramData\ZeroTier\One\zerotier-one_x64.exe`, however, the permission of `C:\ProgramData\ZeroTier\One\` is incorrect, an attacker with low privilege can get system privilege by this vuln.

### Proof of Concept

When administrators install zerotierone for windows, it will install ZeroTierOneService, the ImagePath of it is `C:\ProgramData\ZeroTier\One\zerotier-one_x64.exe`.



However, the permission of `C:\ProgramData\ZeroTier\One\` is incorrect, all Users have write permission of `C:\ProgramData\ZeroTier\One` and its subdirectories.

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Process Name	Path	Operation	Result	Time	Source	Destination
zerotier-one_x64.exe	C:\ProgramData\ZerTierOne\WSOCK32.dll	IRP_MJ_CREATE	NAME NOT FOUND	Desired Access: 0x00000000	25 NT AUTHORITY\SYSTEM	25 NT AUTHORITY\SYSTEM
zerotier-one_x64.exe	C:\ProgramData\ZerTierOne\IPHLPAPI.DLL	IRP_MJ_CREATE	NAME NOT FOUND	Desired Access: 0x00000000	26 NT AUTHORITY\SYSTEM	26 NT AUTHORITY\SYSTEM
zerotier-one_x64.exe	C:\ProgramData\ZerTierOne\Secur32.dll	IRP_MJ_CREATE	NAME NOT FOUND	Desired Access: 0x00000000	27 NT AUTHORITY\SYSTEM	27 NT AUTHORITY\SYSTEM

So an attacker with low privilege can exploit it and gain a system privilege by dll hijacking

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Registry

Other

Affected Version

1.8.7 and before

Visibility

Public

Status

Fixed

Found by



ycdxsb

@ycdxsb

amateur ✓

This report was seen 822 times.

We are processing your report and will contact the **zerotier/zerotierone** team within 24 hours.

8 months ago

We created a **GitHub Issue** asking the maintainers to create a `SECURITY.md` 8 months ago

We have contacted a member of the **zerotier/zerotierone** team and are waiting to hear back

8 months ago

Sean OMeara 7 months ago

Maintainer

Hello! We have shipped a fix for this in 1.8.8 and will be releasing a blog post about it shortly.

Sean OMeara 7 months ago

Maintainer

Is there a time frame for disclosure and CVE publication?

Sean OMeara validated this vulnerability 7 months ago

ycdxsb has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

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Sean OMeara marked this as fixed in 1.8.8 with commit [ffb444](#) 7 months ago

The fix bounty has been dropped ✖

This vulnerability will not receive a CVE ✖

Sean OMeara [7 months ago](#)

Maintainer

Just wanted to drop a note saying "thank you" for the report. This is a really cool platform. Cheers!

Sean OMeara [7 months ago](#)

Maintainer

<https://www.zerotier.com/2022/04/11/zerotier-for-windows-local-privilege-escalation/>

Jamie Slome [7 months ago](#)

Admin

@Sean - thanks for the work here! Happy to hear you had a positive experience on the platform. We are releasing some updates today to the platform which will give the maintainer and researcher better insight into the CVE status of the report :)

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