SolarWinds Orion Supply-chain Attack

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TLP:WHITE

Figure 1: FireEye
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Malware names
FireEye: SUNBURST
Microsoft: Solarigate

Management summary
Current situation:

- 18,000 customers have the malicious update installed (this may not necessarily mean all of those organizations have actually been breached).
- A patch (hotfix) has been made available by SolarWinds on 15 December.
- The malicious binaries are detected and removed by Microsoft Defender since 16 December.
- The main C2 infrastructure domain has been seized and sinkholed by Microsoft and the security industry and is now being used as a Killswitch for the malware.

Security organization FireEye was hit by a security breach in early December. Analyzing how the breach happened, they found it was done through a malicious software update of the SolarWinds Orion platform – i.e. a supply-chain attack¹.

Following the malicious infrastructure, they then found they were only one instance in a massive breach at many more organizations, many of which are government and military agencies.

SolarWinds is an IT (asset) management platform that is used by around 300,000 customers worldwide, of which around 425 of the Fortune 500, as well as many critical infrastructure organizations.

As for attribution, FireEye tracks this threat actor under the neutral name “UNC2452”. In the media, however, all sources point to a well-known APT called APT29/Cozy Bear, believed to be a Russian government sponsored group.

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Vulnerable systems
From SolarWinds' own advisory²:


Prevention
- Patch your systems:
    The hotfix release 2020.2.1 HF 2 is now available in the SolarWinds Customer Portal at customerportal.solarwinds.com. We recommend that all customers update to release 2020.2.1 HF 2, as the 2020.2.1 HF 2 release both replaces the compromised component and provides several additional security enhancements.
  - Orion Platform v2019.4 HF 5: update to 2019.4 HF 6
- Analyze and possibly block access to the C2 servers as described in the various Malware analysis and advisories. Note that the various vendors report additional Indicators of Compromise, so please check all of them.

Recovery
- Microsoft published a blog "SolarWinds Post-Compromise Hunting with Azure Sentinel"³

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² <https://www.solarwinds.com/securityadvisory>
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SEC Filing: 18,000 out of 300,000 vulnerable customers
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Microsoft to quarantine compromised SolarWinds binaries tomorrow

Microsoft and industry partners seize key domain used in SolarWinds hack
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**Malicious Domain in SolarWinds Hack Turned into ‘Killswitch’**