

Department of the Environment, Climate & Communications

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## NCSC Alert

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### CrowdStrike BSOD Loop Issue

#### UPDATE - Version 1.1

Friday 19<sup>th</sup> July, 2024

**STATUS:** **TLP-CLEAR**

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For more information on the Traffic Light Protocol, see <https://www.first.org/tmlp/>.

Please treat this document in accordance with the TLP assigned.

## Revision History

Revision	Date	Author(s)	Description
1.0	19th July 2024	CSIRT-IE	Initial advisory
1.1	19th July 2024	CSIRT-IE	Update with further steps

## Description

The NCSC is aware of an issue with falcon agent which may cause issues when booting machines. Symptoms include hosts experiencing a bugcheck or bluescreen error related to Falcon Sensor. CrowdStrike are actively working on a fix and there is no need to contact support; a public statement by CrowdStrike can be found at the following link: <https://www.crowdstrike.com/blog/statement-on-windows-sensor-update/>. Further information:

- Windows hosts which have not been impacted do not require any action as the problematic channel file has been reverted.
- Windows hosts which are brought online after 0527 UTC will also not be impacted
- Hosts running Windows7/2008 R2 are not impacted.
- This issue is not impacting Mac or Linux-based hosts
- Channel file "**C-00000291\*.sys**" with timestamp of 0527 UTC or later is the reverted (good) version.
- Channel file "**C-00000291\*.sys**" with timestamp of 0409 UTC is the problematic version.

## Current Action

CrowdStrike have identified a content deployment related to this issue and reverted those changes. If hosts are still crashing and unable to stay online to receive the Channel File Changes, the following steps can be used to workaround this issue.

## Workaround Steps

### Workaround Steps for individual hosts:

- Boot Windows into Safe Mode or the Windows Recovery Environment
  - Putting the host on a wired network (as opposed to WiFi) and using Safe Mode with Networking can help remediation.
- Navigate to  
  
`C:\Windows\System32\drivers\CrowdStrike`
- Locate the file matching "**C-00000291\*.sys**", and delete it.
- Boot the host normally.
  - **Note:** Bitlocker-encrypted hosts may require a recovery key.

### Workaround Steps for public cloud or similar environment including virtual:

- Option 1
  - Detach the operating system disk volume from the impacted virtual server
  - Create a snapshot or backup of the disk volume before proceeding further as a precaution against unintended changes
  - Attach/mount the volume to to a new virtual server
  - Navigate to

C:\Windows\System32\drivers\CrowdStrike

- Locate the file matching “**C-00000291\*.sys**”, and delete it.
  - Detach the volume from the new virtual server
  - Reattach the fixed volume to the impacted virtual server
- Option 2
    - Roll back to a snapshot before 0409 UTC.

### AWS-specific documentation:

- To attach an EBS volume to an instance: <https://docs.aws.amazon.com/ebs/latest/userguide/ebs-attaching-volume.html#:~:text=To%20attach%20an%20EBS%20volume,and%20choose%20Actions%2C%20Attach%20volume>
- Detach an Amazon EBS volume from an instance: <https://docs.aws.amazon.com/ebs/latest/userguide/ebs-detaching-volume.html>

### Azure environments:

- Please review <https://azure.status.microsoft.com/en-gb/status>

### Bitlocker recovery-related KBs:

- BitLocker recovery in Microsoft Azure: <https://www.crowdstrike.com/wp-content/uploads/2024/07/BitLocker-recovery-in-Microsoft-Azure.pdf>
- BitLocker recovery in Microsoft environments using SCCM: <https://www.crowdstrike.com/wp-content/uploads/2024/07/BitLocker-recovery-in-Microsoft-environments-using-SCCM.pdf>
- BitLocker recovery in Microsoft environments using Active Directory and GPOs: <https://www.crowdstrike.com/wp-content/uploads/2024/07/BitLocker-recovery-in-Microsoft-environments-using-Active-Directory-and-GPOs.pdf>
- BitLocker recovery in Microsoft environments using Ivanti Endpoint Manager: <https://www.crowdstrike.com/wp-content/uploads/2024/07/BitLocker-recovery-in-Microsoft-environments-using-Ivanti-Endpoint-Manager.pdf>

## General Awareness

### Increased Phishing Attempts During IT Outages

Please be aware of opportunistic phishing attempts culminating from this Global IT outage event. Be extra cautious of emails, calls or texts claiming to be from IT support. Always verify the sender's details and never click on links or open attachments provided through unexpected channels.

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