

Department of the Environment, Climate & Communications

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## NCSC Alert

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### Critical Vulnerabilities in Fortinet FortiOS (CVE-2024-21762, CVE-2024-23113)

**UPDATE**

Tuesday 13<sup>th</sup> February, 2024

**STATUS:** TLP-CLEAR

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# Revision History

Revision	Date	Author(s)	Description
1.0	9th February 2024	CSIRT-IE	Initial advisory responding to Fortinet advisory
1.1	12th February 2024	CSIRT-IE	Update with details of additional affected FortiOS operating systems for CVE-2024-21762 and CVE-2024-23113.

## Description

**Published:** Feb 9th 2024

**Vendor:** Fortinet

**Product:** FortiOS

**CVE ID:** CVE-2024-21762

**CVSS3.0 Score<sup>1</sup>:** 9.8

**EPSS<sup>2</sup>:** 0.846070000

**CVE ID:** CVE-2024-23113

**CVSS3.0 Score:** 9.8

**EPSS:** TBC

**Summary:** Fortinet has disclosed two critical vulnerabilities affecting its FortiOS operating system.

CVE-2024-21762 is due to incorrect parameter checks in FortiOS SSL-VPN. It may allow a remote unauthenticated attacker to execute arbitrary code or command via specially crafted HTTP requests. Fortinet say this is potentially being exploited in the wild.

CVE-2024-23113 is due to an externally controlled format string vulnerability in FortiOS fgfmd daemon, and may allow a remote unauthenticated attacker to execute arbitrary code or commands via specially crafted requests.

More information related to these issues can be found at the following links:

- <https://www.fortiguard.com/psirt/FG-IR-24-015>
- <https://www.fortiguard.com/psirt/FG-IR-24-029>

## Products Affected

CVE-2024-21762:

- FortiOS 7.4.0 - 7.4.2
- FortiOS 7.2.0 - 7.2.6
- FortiOS 7.0.0 - 7.0.13
- FortiOS 6.4.0 - 6.4.14
- FortiOS 6.2.0 - 6.2.15
- FortiOS 6.0 all versions
- FortiProxy 7.4.0 - 7.4.2
- FortiProxy 7.2.0 - 7.2.8
- FortiProxy 7.0.0 - 7.0.14
- FortiProxy 2.0.0 - 2.0.13
- FortiProxy 1.2 all versions

<sup>1</sup><https://www.first.org/cvss/v3.0/specification-document>

<sup>2</sup>[https://www.first.org/epss/articles/prob\\_percentile\\_bins](https://www.first.org/epss/articles/prob_percentile_bins)

- FortiProxy 1.1 all versions
- FortiProxy 1.0 all versions

CVE-2024-23113:

- FortiOS 7.4.0 - 7.4.2
- FortiOS 7.2.0 - 7.2.6
- FortiOS 7.0.0 - 7.0.13
- FortiPAM 1.2
- FortiPAM 1.1.0 - 1.1.2
- FortiPAM 1.0 all versions
- FortiProxy 7.4.0 - 7.4.2
- FortiProxy 7.2.0 - 7.2.8
- FortiProxy 7.0.0 - 7.0.14
- FortiSwitchManager 7.2.0 - 7.2.3
- FortiSwitchManager 7.0.0 - 7.0.3

## Impact

Unauthenticated attackers can use the vulnerabilities to execute arbitrary code on affected devices.

**Common Weakness Enumeration (CWE)**<sup>3</sup>: CVE-2024-21762(CWE-787), CVE-2024-23113(CWE-134)

**Present in CISA Known Exploited Vulnerability(KEV)**<sup>4</sup> catalog: YES (CVE-2024-21762)

## Recommendations

**CVE-2024-21762**: Fortinet have given a workaround which is to disable SSL VPN on your FortiOS devices (disable webmode is NOT a valid workaround). Patches have been released for all FortiOS and FortiProxy versions except for FortiOS 6.0 and FortiProxy 1.0, 1.1 and 1.2 where the advice is to migrate to a fixed release.

**CVE-2024-23113**: Fortinet have provided a workaround which is to remove the fgfm access from each interface, further information on this workaround is available here: <https://www.fortiguards.com/sirt/FG-IR-24-029>. Patches have been released for all affected FortiOS operating systems except FortiPAM 1.0 where the advice is to migrate to a fixed release.

Please also note that a local-in policy that only allows FGFM connections from a specific IP will reduce the attack surface but it won't prevent the vulnerability from being exploited from this IP. As a consequence, this should be used as a mitigation and not as a complete workaround.

The NCSC strongly advises affected organisations to review the latest Fortinet release notes and install the relevant updates using Fortinet's upgrade tool which can be found here: <https://docs.fortinet.com/upgrade-tool>.

<sup>3</sup><https://cwe.mitre.org/>

<sup>4</sup><https://www.cisa.gov/known-exploited-vulnerabilities-catalog>

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