

Department of the Environment, Climate & Communications



NCSC Alert

Critical Vulnerability exists in GeoServer (CVE-2024-36401, CVSSv3: 9.8)

Tuesday 9th July, 2024

STATUS: TLP-CLEAR

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Description

Published: 2024-07-01T16:15:00

Vendor: GeoServer

Product: GeoServer

CVE ID: CVE-2024-36401

CVSS3.0 Score¹: 9.8

EPSS²: 0.961890000

(For up to date EPSS score, click here: <https://api.first.org/data/v1/epss?cve=CVE-2024-36401>)

Summary: GeoServer is an open source server that allows users to share and edit geospatial data. Prior to versions 2.23.6, 2.24.4, and 2.25.2, multiple OGC request parameters allow Remote Code Execution (RCE) by unauthenticated users through specially crafted input against a default GeoServer installation due to unsafely evaluating property names as XPath expressions. The vulnerability, tracked as [CVE-2024-36401](#) can lead to execution of arbitrary code.

Products Affected

- 2.25.x, versions prior to 2.25.2
- 2.24.x, versions prior to 2.24.4
- versions prior to 2.23.6

Impact

This vulnerability can lead to Remote Code Execution.

Recommendations

Versions 2.23.6, 2.24.4, and 2.25.2 contain a patch for the issue. A workaround exists by removing the 'gt-complex-x.y.jar' file from the GeoServer where 'x.y' is the GeoTools version (e.g., 'gt-complex-31.1.jar' if running GeoServer 2.25.1). This will remove the vulnerable code from GeoServer but may break some GeoServer functionality or prevent GeoServer from deploying if the gt-complex module is needed.

The NCSC strongly advises affected organisations to review the latest release notes and install the relevant updates.

Additional information on recommendations and mitigation's for CVE-2024-36401 can be found in the respective link(s):

<https://github.com/advisories/GHSA-6jj6-gm7p-fcvv>

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

²https://www.first.org/epss/articles/prob_percentile_bins

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