CVE-2021-25646

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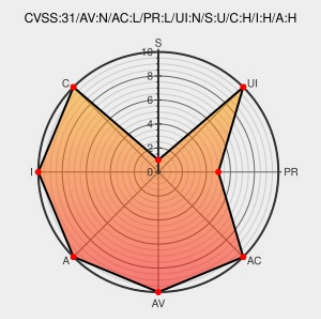
CVE-2021-25646

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Druid from Apache contain the following vulnerability:

Apache Druid includes the ability to execute user-provided JavaScript code embedded in various types of requests. This functionality is intended for use in high-trust environments, and is disabled by default. However, in Druid 0.20.0 and earlier, it is possible for an authenticated user to send a specially-crafted request that forces Druid to run user-provided JavaScript code for that request, regardless of server configuration. This can be leveraged to execute code on the target machine with the privileges of the Druid server process.

CVE-2021-25646 has been assigned by security@apache.org to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Apache Software Foundation** - **Apache Druid** version **<= 0.20.0**

Vulnerability Patch/Work Around

Users should upgrade to Druid 0.20.1. Whenever possible, network access to cluster machines should be restricted to trusted hosts only.

CVSS3 Score: 8.8 - HIGH

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: 9 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE

Confidentiality Impact	Integrity Impact	Availability Impact
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-commits] 20210204 [GitHub] [druid] jihoonson merged pull request #10854: [Backp
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-commits] 20210204 [GitHub] [druid] jihoonson commented on pull request #10818
Pony Mail!	lists.apache.org text/html	MLIST [druid-dev] 20210331 Regarding the 0.21.0 release
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-dev] 20210129 Re: [druid-user] Re: CVE-2021-25646: Authenticated users can ov their requests which allows them to execute arbitrary code.
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MISC lists.apache.org/thread.html/rfda8a3aa6ac06a80c5cbfdeae0fc85f88a5984e32ea05e6dda46f866%4
Pony Mail!	lists.apache.org text/html	MLIST [druid-commits] 20210205 [GitHub] [druid] jihoonson opened a new pull request #10854: 25646
oss-security - CVE-2021-25646: Authenticated users can override system configurations in their requests which allows them to execute arbitrary code.	Mailing List Third Party Advisory www.openwall.com text/html	MLIST [oss-security] 20210129 CVE-2021-25646: Authenticated users can override system con which allows them to execute arbitrary code.
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-commits] 20210204 [GitHub] [druid] jihoonson merged pull request #10818: Fix CV
Pony Mail!	lists.apache.org text/html	MLIST [druid-commits] 20210205 [GitHub] [druid] jihoonson merged pull request #10854: [Backp
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-commits] 20210204 [GitHub] [druid] jihoonson opened a new pull request #10854: 25646
Pony Mail!	lists.apache.org text/html	MLIST [druid-commits] 20210205 [GitHub] [druid] jihoonson commented on pull request #10818

Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [druid-dev] 20210129 Re: CVE-2021-25646: Authenticated users can override system cc which allows them to execute arbitrary code.
Apache Druid 0.20.0 Remote Command Execution ≈ Packet Storm	packetstormsecurity.com text/html	MISC packetstormsecurity.com/files/162345/Apache-Druid-0.20.0-Remote-Command-Execution
Pony Mail!	lists.apache.org text/html	MLIST [druid-commits] 20210205 [GitHub] [druid] jihoonson merged pull request #10818: Fix CV
Pony Mail!	Mailing List Patch Vendor Advisory lists.apache.org text/html	MLIST [druid-commits] 20210204 [druid] branch 0.21.0 updated: Fix CVE-2021-25646 (#10818)
Pony Mail!	Mailing List Vendor Advisory lists.apache.org text/html	MLIST [announce] 20210129 Subject: [CVE-2021-25646] Apache Druid remote code execution

Related QID Numbers

982234 Java (maven) Security Update for org.apache.druid:druid (GHSA-wrqf-rrrw-w3mg)

Exploit/POC from Github

Alibaba-Nacos-Unauthorized/ApacheDruid-RCE_CVE-2021-25646/MS-Exchange-SSRF-CVE-2021-26885/Oracle-WebLogic-CVE-2021-21…

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Apache	Druid	All	All	All	All

cpe:2.3:a:apache:druid:*:*:*:*:*:*:*:*:

Discovery Credit

This issue was discovered by Litch1 from the Security Team of Alibaba Cloud.

Social Mentions

Source	Title	Posted (UTC)

@LinInfoSec	Apache - CVE-2021-25646: openwall.com/lists/oss-secu…	2021-03-31 23:30:55
@axcheron	CVE-2021-25646: Getting Code Execution on Apache Druid zerodayinitiative.com/blog/2021/3/25…	2021-04-01 04:28:00
@EsGeeks	Informe CVE-2021-25646 ? zerodayinitiative.com/blog/2021/3/25…	2021-04-01 17:58:57
@balcazarf	CVE-2021-25646 Druid Code Execution juni.pr/3sQqG8J https://t.co/K4uk39oxQt	2021-04-04 17:04:50
@Nick_nick310	githubを確認したり、ロジックを調べるのは難しいです。 練習が必要ですね。 Apache Druid 「CVE-2021-25646」の再現と修正点の確認 - Nickブログ nicksecuritylog.com/entry/2021/04/…	2021-04-11 22:30:06
@PentesterLab	Articles worth reading discovered last week: ? thezdi.com/blog/2021/3/25… ? robertchen.cc/blog/2021/04/0… ?… twitter.com/i/web/status/1…	2021-04-11 22:55:38
@Attackerkb_Bot	A new #attackerkb assesment on 'CVE-2021-25646' has been created by space-r7. Attacker Value: 4 | Exploitability: 5 attackerkb.com/assessments/91…	2021-04-12 13:41:31
@JavaScript_b	Zero Day Initiative - CVE-2021-25646: Getting Code Execution on Apa... (Zero Day Initiative) Apache Druid is a hig… twitter.com/i/web/status/1…	2021-04-13 17:50:56
@InfoSec_b	Zero Day Initiative - CVE-2021-25646: Getting Code Execution on Apa... (Zero Day Initiative) Apache Druid is a hig… twitter.com/i/web/status/1…	2021-04-13 17:50:56
@PJ47596176	Not a Mystical attack helicopter as I orriginally suspected - Apache Druid. @thezdi zerodayinitiative.com/blog/2021/3/25…	2021-05-12 20:22:18
@balcazarf	CVE-2021-25646 Druid Code Execution juni.pr/3ojiWKU https://t.co/vU6ewQi3Kc	2021-05-15 16:41:38
@subTee	Jackson shows up in the darndest places zerodayinitiative.com/blog/2021/3/25… "We deployed code in a fever, hotter than a pepper… twitter.com/i/web/status/1…	2021-09-10 03:10:09
@s3xcur1ty	CVE-2021-25646 Apache Druid RCE POC gist.github.com/FanqXu/36c5e00… #InfoSec #CyberSecurity #Apache #RCE	2021-09-14 15:48:25
@ipssignatures	It's new to me that Astaro has a protection/signature/rule for the vulnerability CVE-2021-25646.… twitter.com/i/web/status/1…	2021-10-30 22:02:01
@ipssignatures	I know 4 other IPSs that have protections/signatures/rules for the vulnerability CVE-2021-25646. ipssignatures.appspot.com/?cve=CVE-2021-… #Shmt7b264yy3cs	2021-10-30 22:02:01
@OPOSEC	Getting Code Execution on Apache Druid (CVE-2021-25646). bit.ly/39VqsWl (+) #Security #373 (2021)	2023-01-18 08:00:02

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