CVE-2021-22160

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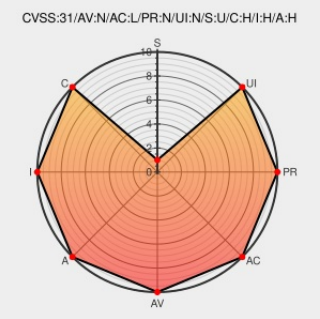
CVE-2021-22160

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



Certain versions of Pulsar from Apache contain the following vulnerability:

If Apache Pulsar is configured to authenticate clients using tokens based on JSON Web Tokens (JWT), the signature of the token is not validated if the algorithm of the presented token is set to "none". This allows an attacker to connect to Pulsar instances as any user (incl. admins).

CVE-2021-22160 has been assigned by security@apache.org to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **Apache Software Foundation** - **Apache Pulsar** version **< 2.7.1**

CVSS3 Score: 9.8 - CRITICAL

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

CVSS2 Score: 7.5 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
Pony Mail!	lists.apache.org	MLIST [pulsar-dev] 20210528 Re: Cutting 2.6.4 release to address CVE-2021-22160

	text/html	
Pony Mail!	lists.apache.org text/html	MLIST Re: [SECURITY] [CVE-2021-22160] Authentication with JWT allows use of “none”-algorithm
Pony Mail!	lists.apache.org text/html	MISC lists.apache.org/thread.html/r347650d15a3e9c5f58b83e918b6ad6dedc2a63d3eb63da8e6a7be87e%40%3C
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-commits] 20210528 [GitHub] [pulsar] lhotari commented on issue #10733: Pulsar 2.6.3 JW persistent/public/default 401 error
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-users] 20210527 Re: [SECURITY] [CVE-2021-22160] Authentication with JWT allows use
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-commits] 20210528 [GitHub] [pulsar] lhotari edited a comment on issue #10733: Pulsar 2.6 /admin/v2/non-persistent/public/default 401 error
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-dev] 20210527 Re: [SECURITY] [CVE-2021-22160] Authentication with JWT allows use of
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-dev] 20210527 Re: Cutting 2.6.4 release to address CVE-2021-22160
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-dev] 20210604 Re: [DISCUSS] Propose More Formal Policy for Security Patches and EOL
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-dev] 20210527 Cutting 2.6.4 release to address CVE-2021-22160
Pony Mail!	lists.apache.org text/html	MLIST [pulsar-dev] 20210531 Re: [DISCUSS] Propose More Formal Policy for Security Patches and EOL

Related QID Numbers

982355 Java (maven) Security Update for org.apache.pulsar:pulsar (GHSA-3cv4-xxv7-934q)

Known Affected Configurations (CPE V2.3)

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

cpe:2.3:a:apache:pulsar:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-22160 : If #Apache Pulsar is configured to authenticate clients using tokens based on JSON Web Tokens JWT… twitter.com/i/web/status/1…	2021-05-26 12:28:48
@ulldma	The counter on the site howmanydayssinceajwtalgnonevuln.com had to be reset to zero. Sorry about that! (CVE-2021-22160) https://t.co/ZCNB8u3DpU	2021-05-26 17:12:42

/r/netcve	CVE-2021-22160	2021-05-26 12:41:51

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