CVE-2021-29485

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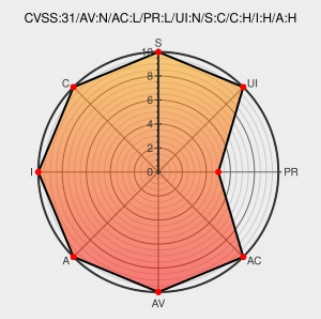
CVE-2021-29485 - advisory for GHSA-hc33-32vw-rpp9

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



Certain versions of Ratpack from Ratpack Project contain the following vulnerability:

Ratpack is a toolkit for creating web applications. In versions prior to 1.9.0, a malicious attacker can achieve Remote Code Execution (RCE) via a maliciously crafted Java deserialization gadget chain leveraged against the Ratpack session store. If one's application does not use Ratpack's session mechanism, it is not vulnerable. Ratpack 1.9.0 introduces a strict allow-list mechanism that mitigates this vulnerability when used. Two possible workarounds exist. The simplest mitigation for users of earlier versions is to reduce the likelihood of attackers being able to write to the session data store. Alternatively or additionally, the allow-list mechanism could be manually back ported by providing an alternative implementation of `SessionSerializer` that uses an allow-list.

CVE-2021-29485 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **ratpack** - **ratpack** version **< 1.9.0**

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: 6.5 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**

PARTIAL | PARTIAL | PARTIAL

CVE References

Description	Tags	Link
Maven Repository: io.ratpack » ratpack-core	web.archive.org text/html Inactive Link Not Archived	MISC mvnrepository.com/artifact/io.ratpack/ratpack-core
Remote Code Execution Vulnerability in Session Storage · Advisory · ratpack/ratpack · GitHub	github.com text/html	CONFIRM github.com/ratpack/ratpack/security/advisories/GHSA-hc33-32vw-rpp9

Related QID Numbers

980386 Java (maven) Security Update for io.ratpack:ratpack-core (GHSA-hc33-32vw-rpp9)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Ratpack Project	Ratpack	All	All	All	All

cpe:2.3:a:ratpack_project:ratpack:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-29485 : Ratpack is a toolkit for creating web applications. In versions prior to 1.9.0, a malicious attack… twitter.com/i/web/status/1…	2021-06-29 18:38:19
/r/netcve	CVE-2021-29485	2021-06-29 19:41:45

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